

# Russian Fractals in Indigenous Artifacts

**Abdul Karim Bangura**

*American University Center for Global Peace*

**Leonid A. Zhigun**

*Plekhanov Russian University of Economics, Moscow, Russia;  
Financial University under the Government of Russia,  
Moscow, Russia*

Series in Anthropology



VERNON PRESS

Copyright © 2025 Vernon Press, an imprint of Vernon Art and Science Inc, on behalf of the authors.

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, without the prior permission of Vernon Art and Science Inc.

[www.vernonpress.com](http://www.vernonpress.com)

*In the Americas:*  
Vernon Press  
1000 N West Street, Suite 1200,  
Wilmington, Delaware 19801  
United States

*In the rest of the world:*  
Vernon Press  
C/Sancti Espiritu 17,  
Malaga, 29006  
Spain

Series in Anthropology

Library of Congress Control Number: 2025932499

ISBN: 979-8-8819-0201-8

Product and company names mentioned in this work are the trademarks of their respective owners. While every care has been taken in preparing this work, neither the authors nor Vernon Art and Science Inc. may be held responsible for any loss or damage caused or alleged to be caused directly or indirectly by the information contained in it.

Every effort has been made to trace all copyright holders, but if any have been inadvertently overlooked the publisher will be pleased to include any necessary credits in any subsequent reprint or edition.

Cover design by Vernon Press. Cover image by Isatu Ramatu Bangura.

## **Dedication**

To the Great People of the Russian Federation!



# Contents

<b>Acknowledgments</b>	vii
<b>List of Tables</b>	ix
<b>List of Figures</b>	xi
Chapter 1 <b>Defining Fractal</b>	1
Chapter 2 <b>Introduction to Fractal Mathematics</b>	13
Chapter 3 <b>Fractal Heritage of Indigenous Russian Cultures</b>	33
Chapter 4 <b>Fractal Designs of Unalienated Labor Value</b>	91
Chapter 5 <b>Fractals of Alienated Labor Value</b>	107
Chapter 6 <b>Onion Domes</b>	133
Chapter 7 <b>Peter Carl Fabergé's Jeweled Eggs</b>	153
Chapter 8 <b>Kokoshnik Pattern</b>	171
Chapter 9 <b>Nesting Dolls</b>	187
Chapter 10 <b>Surrealist Art</b>	205
Chapter 11 <b>Kazimir Malevich's <i>Arkhitektoniki</i></b>	225
Chapter 12 <b>Paper Architecture</b>	243
Chapter 13 <b>Andrei Belyi and Vladimir Vladimirovich Nabokov Neo-Baroque or High Modernism Works</b>	265
Chapter 14 <b>Aleksandr Isayevich Solzhenitsyn's <i>Krokhotky</i></b>	295
Chapter 15 <b>Folk Songs</b>	317
Chapter 16 <b>Tatiana Plakhova's Music Portraits</b>	343
Chapter 17 <b>Alexei Stanchinsky's Euphonious Fractals</b>	363

Chapter 18 <b>The Politics of Russian Fractals</b>	381
Chapter 19 <b>Lay Attempts</b>	405
Chapter 20 <b>Professional Attempts</b>	425
Chapter 21 <b>New Directions for Russian Fractals</b>	445
<b>Postscript</b>	481
<b>Bibliography</b>	483
<b>Index</b>	521

# Acknowledgments

We, and hopefully many readers, owe gratitude to the following:

The Creator, for providing us the analytical and rational reality to do this work.

The anonymous reviewers, for their substantive evaluations. Asking difficult questions leads to better answers and clarifications.

Isatu Ramatu Bangura, for designing the image on the book's cover.

Our immediate and global families, for their prayers and support.



# List of Tables

Table 3.1:	List of Indigenous Cultural Groups of the Russian Federation.	35
Table 7.1:	Sample of Contemporary Experts' Asseverations about the Fabergé Eggs.	158
Table 21.1:	State Anthem of the Russian Federation in Russian Alphabet.	465
Table 21.2:	State Anthem of the Russian Federation in Romanized Russian and English Alphabets.	466
Table 21.3:	Test of the Semantic Ordering of Phrases in the Russian Federation Anthem Text.	470
Table 21.4:	Univariate Statistics by Types of Presuppositions in the Anthem (N = 36).	475



# List of Figures

Figure 2.1: Fractal Dimensions with Line Segments of Unit Length.	22
Figure 2.2: Fractal Dimensions with Plane Figures of Unit Area.	23
Figure 2.3: An Example of the Koch Curve Iterated Twice.	24
Figure 2.4: Julia and Mandelbrot Sets.	25
Figure 4.1: Oncorhynchus Gorbusha.	98
Figure 5.1: Soup Plate, 1762/66.	126
Figure 6.1: St. Basil's Cathedral Onion Domes.	143
Figure 6.2: A Gold Onion Dome of Catherine Palace.	145
Figure 7.1: Renaissance Egg.	165
Figure 7.2: Rosebud Egg.	166
Figure 9.1: Sergievo-Posadskaya or Zagorskaya Matryoshka Doll.	198
Figure 10.1: Composition with Figures.	214
Figure 11.1: Arkhitekton Alpha.	234
Figure 11.2: Architekton Beta.	236
Figure 11.3: Architekton Zeta.	237
Figure 11.4: Arkhitekton Gotha.	238
Figure 11.5: Suprematist Ornaments.	240
Figure 12.1: "New Element of Settlement.	252
Figure 12.2: Viaducity (Viaduct City).	254
Figure 12.3: Doll's House (1990).	255
Figure 12.4: Museum of Disappearing Buildings (1990).	256
Figure 12.5: The Stateless Theater, or Roving Auditorium (1986/1990).	258
Figure 12.6: Villa Claustrophobia (1985).	260
Figure 13.1: Visualization of Self-similar Words' Lexical Intensity in Nabokov's "Easter Rain".	288
Figure 14.1: Radial Fractal from 18 Groups of Lexemes in Miniature of the First Cycle "Krokhotky."	309

Figure 14.2: Oscillational Fractals from Groups of Lexemes in Miniatures from the First Cycle of “Krokhotky.”	310
Figure 16.1: A Philip Glass Music Portrait.	350
Figure 16.2: Glade.	352
Figure 16.3: Jellyfish 1.	354
Figure 16.4: Jellyfish 2.	355
Figure 16.5: Jellyfish 3.	356
Figure 16.6: The Sound of a Musical Mote G5.	358
Figure 16.7: My Hat — 2.	359
Figure 21.1: Visualization of Self-similar Words’ Lexical Intensity in the Text of the Anthem of the Russian Federation.	468
Figure 21.2: Phase Space Portrait Mapping Presuppositions of Order and Disorder.	476
Figure 21.3: Log-log Plot Order vs. Disorder in the Text.	477
Figure 22.1: Russian Fractality.	481

PAGES MISSING  
FROM THIS FREE SAMPLE

# Bibliography

- 100 Songs of Russian Workers. (1984). Comp., intro., article, and comment by P. Shiryaeva. Vykhodtsev, P. (general ed.). *Leningrad Music*. Leningrad, Russia: Phonogrammarchiv the Institute of Russian Literature, Call. 102, Item 2, No. 74.
- ABC of Faith. (2022). Skoofia to favorites. *Steps of Faith*. Retrieved on October 21, 2022, from <https://azbyka.ru/skufiya> (in Russian).
- About Matryoshka. (2022). Semenovskaya painting. Retrieved on January 20, 2023, from <https://srosp.com/o-matreshke#sem> (in Russian).
- Abukaeva, L. A. and Krasnova, N. M. (2015). Symbols in Mari wedding songs. *Mediterranean Journal of Social Sciences* 6(3 S7):17-20. Retrieved on February 28, 2023, from <https://www.mcser.org/journal/index.php/mjss/article/view/6836>. <https://doi.org/10.5901/mjss.2015.v6n3s7p17>.
- Abysimus. (September 23, 2009). Fractal Fabergé eggs: Variations on a theme. *YouTube*. Retrieved on October 14, 2022, from <https://www.youtube.com/watch?v=KknYQxh-T0s>.
- Academic.com. (2000-2023). Neo-Baroque. *English-Italian Dictionary*. Retrieved on January 31, 2023, from [https://english\\_italian.en-academic.com/44507/neo-baroque](https://english_italian.en-academic.com/44507/neo-baroque).
- Aerts, D., Czachor, M. and Kuna, M. (2015). Crystallization of space: Space-time fractals from fractal arithmetic. *General Relativity and Quantum Cosmology* xiv(1):1-13. Retrieved on August 5, 2022, from <https://arxiv.org/pdf/1506.00487.pdf>.
- Agefotostock. (2022); Gold onion domes of Catherine's cathedral. Retrieved on October 12, 2022, from <https://www.agefotostock.com/age/en/details-photo/catherine-palace-1717-chapel-close-up-of-5-gold-onion-domes-tsarskoje-selo-st-petersburg-russia/WDP-ZB4446-246557-0034>.
- Akpobiyeri, D. (April 14, 2020). Composition with figures: Emerging practices. *History of Graphic Design, North Carolina State University*. Retrieved on November 15, 2022, from <https://go.distance.ncsu.edu/gd203/?p=54797>.
- Alaskan Driftwood Creations. (2022). Art gallery. *Facebook*. Retrieved on September 14, 2022, from <https://www.facebook.com/Akdriftwoodcreations>.
- Alfiya, G. (2017). E. Muldashev on "Flesh Eaters." Retrieved on July 28, 2023, from the website <https://galimova-alfiya.livejournal.com/10369.html> (in Russian).
- Alesio. (2011). History of the "Red May" Glass Factory. Retrieved on November 11, 2022, from <https://www.antik-forum.ru/forum/showthread.php?t=7823> (in Russian).
- Alexander Rodchenko and His Circle. (2019). A constructive world." Dreams of space. Retrieved on March 08, 2023, from [https://xn----7sbabalfgj4as1arld1aqs8v.xn--p1ai/uploads/catalogfiles/2741\\_aleksandr-rodchenko-konstruktivnyj-mir-mechty-o-prostranstve.pdf](https://xn----7sbabalfgj4as1arld1aqs8v.xn--p1ai/uploads/catalogfiles/2741_aleksandr-rodchenko-konstruktivnyj-mir-mechty-o-prostranstve.pdf) (in Russian).
- Alexander, T. J. (2007). *Hellenismos Today*. Morrisville, NC: Lulu.com.

- Alexandrov P. S. (1947). *Combinatorial Topology*. Moscow-Leningrad, Russia. OGIZ: State Publishing House of Technical and Technical Literature (in Russian).
- Alyona, A. (2017). The Betrotheds and the Eiffel Tower. Marc Chagall National Museum. Nice. Retrieved on February 12, 2023, from [https://artchive.ru/marcchagall/works/224835~Obruchennye\\_i\\_Ejfeleva\\_bashnja](https://artchive.ru/marcchagall/works/224835~Obruchennye_i_Ejfeleva_bashnja) (in Russian).
- Almazov, A. A. (2009). *Fractal Theory Forex Market/Fraktalnaya Teoriya Rynka Forex*. London, UK: Admiral Markets.
- Amazon.com. (2023). Edgar Mori: Books—Amazon.com. Retrieved on March 14, 2023, from [https://www.amazon.com/Books-Edgar-Morin/s?rh=n%3A283155%2Cp\\_27%3AEdgar+Morin](https://www.amazon.com/Books-Edgar-Morin/s?rh=n%3A283155%2Cp_27%3AEdgar+Morin).
- Anatoly, S. (2022). Social network: *Fotokto.ru*. Retrieved on October 21, 2022, from <http://s4.fotokto.ru/photo/full/574/5749772.jpg> (in Russian).
- Arbo, I. (2023). Russian fractal curve metal print. *Fine Art America*. Retrieved on June 17, 2023, from <https://fineartamerica.com/featured/russian-fractal-curve-inna-arbo.html?product=metal-print>.
- Arbo, I. (March 7, 2017). Russian fractal curve. *Px Pixels*. Retrieved on June 17, 2023, from <https://pixels.com/featured/russian-fractal-curve-inna-arbo.html>.
- arclory. (December 31, 2012). Babushka dolls and the multiverse. Retrieved on November 8, 2022, from <https://arclory.wordpress.com/2012/12/31/babushka-dolls-and-the-multiverse/>.
- Arch20. (2022). Brodsky & Utkin's paper architecture—Destined to remain on paper. *Coffee Break Top Articles 2*. Retrieved on November 26, 2022, from <https://www.arch2o.com/brodsky-utkin-paper-architecture-destined-remain-paper/>.
- arkDomes. (2020). Cosmic tents from future. Retrieved on June 20, 2023, from <https://arkdomes.com/>.
- Around the World Consultancy. (2018). The onion shaped domes of Russia, their history and significance. Retrieved on October 9, 2022, from <https://atwcweb.wordpress.com/2018/05/05/the-onion-shaped-mosques-of-russia-their-history-and-significance/>.
- Art Institute Chicago. (2022). Russian imperial porcelain factory. Retrieved on October 4, 2022, from <https://www.artic.edu/artists/22575/russian-imperial-porcelain-factory>.
- ArtistInfo Community. (2015-2020). Alexei Stanchinsky. Retrieved on March 15, 2023, from <https://music.metason.net/artistinfo?name=Alexei%20Stanchinsky>.
- ArtRussia. (2022). Russian surrealism and realist painters. *ArtRussia Gallery*. Retrieved on November 12, 2022, from <http://artussia.ru/en/surrealism>.
- askART. (2022). Facts about Georgii Narbut. *Artist Biography & Facts*. Retrieved on September 23, 2022, from [https://www.askart.com/artist/Georgii\\_Narbut/11158256/Georgii\\_Narbut.aspx](https://www.askart.com/artist/Georgii_Narbut/11158256/Georgii_Narbut.aspx).
- Assumption Cathedral of the Moscow Kremlin. (2013). Assumption Cathedral. Retrieved on November 29, 2022, from <https://www.liveinternet.ru/users/4712522/post255445371/> (in Russian).
- Assumption Cathedral of the Moscow Kremlin. (2022). Facades: Top view of Orthodox St. Tikhon's University for the Humanities. Retrieved on December 01, 2022, from <https://icons.pstgu.ru/monumental/27> (in Russian).

- Astrotalk. (2022a). Chaldean numerology: Meaning and personal traits. Retrieved on October 26, 2022, from <https://astrotalk.com/numerology-introduction/chaldean>.
- Astrotalk. (2022b). Pythagorean numerology: An insight into Western astrology. Retrieved on October 26, 2022, from <https://astrotalk.com/numerology-introduction/pythagorean>.
- Astrum People. (2023). Tatiana Plakhova illustrations: Breathtaking complexity graphics. Retrieved on March 5, 2023, from <https://astrumpeople.com/tatiana-plakhova-illustrations-breathtaking-complexity-graphics/>.
- Avvakumov, Y. (2022). Russia paper architecture. *Stranger's Guide*. Retrieved on November 27, 2022, from <https://strangersguide.com/articles/paper-architecture/#>.
- Avvakumov, Y. (2020; English edition, 2021), *Paper Architecture*. Moscow, Russia: Garage.
- Babenko, A. (June 4, 2017). Georgii Narbut (1886-1920): Design for a cover of Ivan Krylov's 'Fables.' *Christie's Russian Art*. Retrieved on September 22, 2022, from <https://www.christies.com/lot/lot-georgii-narbut-design-for-a-cover-of-6077881/?lid=1&from=relatedlot&intobjectid=6077881>.
- Bailey, C. (2014). What is alienated labour and what would unalienated labour be like? *Philsoc Student Essay Prize,--Hilary 2014*. Retrieved on September 19, 2022, from [https://www.oxfordphilsoc.org/Documents/StudentPrize/2014\\_H2.pdf](https://www.oxfordphilsoc.org/Documents/StudentPrize/2014_H2.pdf).
- Balakirev, M. A. (1957). Russian Folk Songs. *Muzgiz*. Moscow, Russia: Moscow Publishing House (in Russian).
- Banister-Fletcher, A. (2022). Lyubov Popova: Artist overview and analysis. *TheArtStory.org*. Retrieved on November 15, 2022, from <https://www.theartstory.org/artist/popova-lyubov/>.
- Barefield, R. (September 17, 2017). Pink salmon (*oncorhynchus gorbuscha*). *Kodiak Wildlife*. Retrieved on September 22, 2022, from <http://robinbarefield.com/pink-salmon-oncorhynchus-gorbuscha/>.
- barentsinfo.org. (2022). Veps and Karelians. The Economic Geography and Structure of the Russian Territories of the Barents Region, Arctic Centre Reports 31. Retrieved on September 17, 2022, from <https://www.barentsinfo.org/barents-region/Indigenous-people/Veps>.
- Barewalls.com. (2022). Veps posters and art prints. Retrieved on September 18, 2022, from <https://www.barewalls.com/posters-art-prints/veps.html>.
- Barnes and Noble Services. (1997-2023). Krokhotki. *Barnes & Noble Booksellers, Inc*. Retrieved on February 15, 2023, from <https://www.barnesandnoble.com/w/rasskazy-i-krokhotki-aleksandr-solzhenitsyn/1126054912>.
- Barton, T. (2021). Of Russian origin: Kokoshnik. *Russiapedia*, RT (Russia Today) News. Retrieved on October 26, 2022, from <https://russiapedia.rt.com/of-russian-origin/kokoshnik/index.html>.
- Bazhenova, N.A. (2018). Kazakh folk weaving. Retrieved on October 28, 2022, from <https://roerich.kz/publication/kazahskoe-narodnoe-tkachestvo.htm> (in Russian).
- BDpedia. (2023). About: High modernism. *Virtuoso*. Retrieved on February 3, 2023, from [https://dbpedia.org/page/High\\_modernism](https://dbpedia.org/page/High_modernism).

- BeaMalevich. (2022). Alpha Architecton by Malevich. Retrieved on November 23, 2022, from <https://beamalevich.com/products/alpha-architecton>.
- Belyi, A. (1904). *Gold in Azure* (in Russian, *Золото в лазури*; Latinized, *Zoloto v lazuri*). Moscow, Russia: Skorpion.
- Berezhnaya, A. (2022). Vasily Kandinsky. *Archive*. Retrieved on February 14, 2023, from <https://artchive.ru/wassilykandinsky> (in Russian).
- Bichler, S. Nitzan, J. and Muzio, T. D. (2012), The 1%, exploitation and wealth: Tim Di Muzio interviews Shimshonn Bichler and Jonathan Nitzan, *Review of Capital as Power* 1(1):1-22.
- Biography—Peoples.RU. (2012). Solzhenitsyn Alexander Isavich (1918-2008): Russian prose writer and publicist. Retrieved on February 17, 2023, from <https://biography-peoples.ru/index.php/s/item/677-solzhenitsyn-aleksandr-isaevich> (in Russian).
- Blaze Concepts. (2023). Platov international airport. *Platov Rostov-on-Don International Airport*. Retrieved on June 23, 2023, from <https://www.airport-suppliers.com/airport/platov-international-airport/>.
- Blumberg, N. (September 8, 2016). Natalya Goncharova: Russian artist. *Encyclopædia Britannica*. Retrieved on May 31, 2023, from <https://www.britannica.com/biography/Natalya-Goncharova>.
- Bobkova, O. (2019). The stars of the Moscow Kremlin were born there. Retrieved on November 11, 2022, from <https://dzen.ru/media/olgabobkovafoto/tam-rojhdalis-zvezdy-moskovskogo-kremlia-5dc9af3b8ddf2d1f5dfbe181> (in Russian).
- Boby, O. and Shevchenko, N. (2014). Evaluation cycle characteristics of investment banking with the help of fractal analysis. *Mathematical Methods and Models in Economics* 336, 51:340-348. Retrieved on November 26, 2015, from [http://www.problecon.com/annotated-catalogue/?year=2014&abstract=2014\\_02\\_0&lang=en](http://www.problecon.com/annotated-catalogue/?year=2014&abstract=2014_02_0&lang=en).
- Bocharnikova, D. (2019). The NER project: a vision of post-industrial urbanity from post-Stalin Russia. *The Journal of Architecture* 24(5):631-654. Retrieved on January 20, 2023, from [https://www.academia.edu/40678008/The\\_NER\\_project\\_a\\_vision\\_of\\_post\\_industrial\\_urbanity\\_from\\_post\\_Stalin\\_Russia](https://www.academia.edu/40678008/The_NER_project_a_vision_of_post_industrial_urbanity_from_post_Stalin_Russia). <https://doi.org/10.1080/13602365.2019.1667401>.
- Boguslavskaya, I. Ya. (1984). Russian embroidery of the XVI-XVIII centuries, Russia Leningrad. Retrieved on January 07, 2023, from <http://oldchest.ru/vyshivka/russkaya-vyshivka-16-18vek/> (in Russian).
- Bonch-Osmolovskaya, T. (2006). Fractals in literature. *Text Only*. 16(2). Retrieved on August 16, 2023, from: <http://textonly.ru/case/?issue=16&article=9255> (in Russian).
- Bortnikov, V. I. (2019). The form of narration in A. I. Solzhenitsyn's cycle "Krokhotky" as the author's method of evaluation "Sovietness." *Izvestiya Ural Federal University Series 2: Humanities* 21(1), 184:70-86. Retrieved on August 18, 2023, from <chrome-extension://efaidnbmnnnibpcajpcglclefindmkaj/https://publications.hse.ru/mirror/pubs/share/direct/308216723> (in Russian). <https://doi.org/10.15826/izv2.2019.21.1.006>.
- Bortnikov, V. I. (2013). Text categories as a basis for comparing variants of a literary text. *Bulletin of Perm University Russian and Foreign Philology* 2(22):75-85. Retrieved on August 25, 2023, from: <https://cyberleninka.ru/article/n/>

- tekstovye-kategorii-kak-osnovanie-sravneniya-variantov-hudozhestvennogo-teksta (in Russian).
- Bowers, N. (April 1, 2022). How Fabergé eggs became a symbol of Easter. *Art & Object*. Retrieved on October 22, 2022, from <https://www.artandobject.com/news/how-faberge-eggs-became-symbol-easter>.
- Bozhokin S. V. and Parshin D. A. (2001). *Fractals and Multifractals*. Izhevsk, Russia: SIC Regular and Chaotic Dynamics (in Russian).
- Brault, A. (2012). Definition and categorization of folk music. *World Federation of Music Therapy*. Retrieved on February 4, 2023, from <https://wfmt.info/2012/12/22/definition-and-categorization-of-folk-music/>.
- Bravo Voronezh! Non-commercial online publication (2020). Retrieved on August 04, 2023, from <https://www.bravo-voronezh.ru/kultura/folklor-i-tradiczii/uhar-kupec-stavshaya-narodnoy-samaya-izvestnaya-iz-vseh-voronezhskih-pesen-na-stihi-poeta-i-s-nikitina/> (in Russian).
- Bregeda, V. (2022). The artist: The story of Victor Bregeda. *Bregeda.com*. Retrieved on November 12, 2022, from <https://bregeda.com/the-artist/>.
- Brendshme dhe arredim. (2022). Koryaks. Njerëzit Koryak, ku jetojnë, foto me kostume kombëtare, histori, tradita, zakone të Koryakut. Gjuhët e popujve të Siberisë—Gjuhët dhe kulturat—gjuha Koryak. *Optolov*. Retrieved on September 14, 2022, from <https://optolov.ru/sq/crafts/koryaki-narod-koryaki-gde-zhivut-foto-v-nacionalnyh-kostyumah.html>.
- Bridge to Moscow. (2022). Shape and color of Russian domes. Retrieved on October 9, 2022, from <https://bridgetomoscow.com/curious-fact-shape-and-color-of-russian-domes>.
- Britannica, The Editors of Encyclopaedia. (2023). Aleksandr Isayevich Solzhenitsyn. *Encyclopedia Britannica*. Retrieved on February 11, 2023, from <https://www.britannica.com/biography/Aleksandr-Solzhenitsyn>.
- Britannica, The Editors of Encyclopaedia. (2023a). Baroque art and architecture. *Encyclopedia Britannica*, Retrieved on February 1, 2023, from <https://www.britannica.com/art/Baroque-art-and-architecture>.
- Britannica, The Editors of Encyclopaedia (2023b). Andrey Bely. *Encyclopedia Britannica*. Retrieved on February 5, 2023, from <https://www.britannica.com/biography/Andrey-Bely>. Accessed 5 February 2023.
- Brown, C. and Liebovitch, L. (2010). *Fractal Analysis*. Thousand Oaks, CA: Sage Publications. <https://doi.org/10.4135/9781412993876>.
- Brown, G. and Yule, G. (1983). *Discourse Analysis*. Cambridge, UK: Cambridge University Press. <https://doi.org/10.1017/CBO9780511805226>.
- Burning Man Project. (2022). What Is burning man? *History & Timeline*. Retrieved on November 14, 2022, from <https://burningman.org/about/history/brc-history/event-archives/2022-event-archive/2022-art-installations/>.
- Burns, T. (2017). Marx, the labour theory of value and the transformation problem. *Capital & Class* 41(3):493–510. <https://doi.org/10.1177/0309816816678581>.
- Busacca Gallery. (2023). Digital art work on paper by Artist Tatiana Plakhova. Retrieved on March 14, 2023, from [https://www.busaccagallery.com/gallery\\_view.php?id=5117&page=video](https://www.busaccagallery.com/gallery_view.php?id=5117&page=video).

- Byrne, D. (October 14, 2014). Russian surrealism. *Journal*. Retrieved on November 12, 2022, from <https://davidbyrne.com/journal/russian-surrealism>.
- Byrne, M. (January 31, 2012). Happy birthday, Philip Glass. *Motherboard Tech by Vice*. Retrieved on March 13, 2023, from <https://www.vice.com/en/article/3ddpkb/the-music-of-philip-glass-reimagined-as-fractal-art>.
- Caruana, C. (2010). Tatiana Plakhova. *Escape Into Life*. Retrieved on March 5, 2023, from <https://www.escapeintolife.com/art-videos/tatiana-plakhova/>.
- Cekic, S. (2023). Around the world—Russia. *Guitarmasterclass.net*. Retrieved on February 27, 2023, from <https://www.guitarmasterclass.net/ls/Around-The-World-Russia/?part=main>.
- Chafe, W. L. 1972. Discourse structure and human knowledge. In Freedle, R. O. and Carroll, J. B. (eds.). *Language Comprehension and the Acquisition of Knowledge*. Washington, DC: V. M. Winston.
- Chernysh A. Ya. and Zhigun L. A. (2012). *Theory of Customs Economics*. Moscow, Russia: Publishing House of the Russian Customs Academy (in Russian).
- Chirkova, L. and Testova, I. (2019). The development of the informative line “modelling” using fractals in a continuous multi-level education system. In Rugelj, J. and Lapina, M. (eds.). *Proceedings of SLET-2019—International Scientific Conference Innovative Approaches to the Application of Digital Technologies in Education and Research*, Stavropol—Dombay, Russia, May 20-23, 2019. Retrieved on June 25, 2023, from [https://ceur-ws.org/Vol-2494/paper\\_9.pdf](https://ceur-ws.org/Vol-2494/paper_9.pdf).
- Christie's. (December 2, 2021). Collecting guide: 15 things you need to know about Fabergé. Retrieved on October 13, 2022, from [https://www.christies.com/features/Faberge-15-things-a-collector-needs-to-know-12031-3.aspx?sc\\_lang=en](https://www.christies.com/features/Faberge-15-things-a-collector-needs-to-know-12031-3.aspx?sc_lang=en).
- Clark, J. (April 21, 2010). The art of Tatiana Plakhova. *Neoformix*. Retrieved on March 13, 2023, from <https://www.neoformix.com/archive.html>.
- Clever Geek Handbook*. (2022). Alutorians. Retrieved on September 14, 2022, from <https://clever-geek.imtqy.com/articles/1785136/index.html>.
- Communications MDR. (April 2016). *Environmental Scan of the Culture Sector: Ontario Culture Strategy Background Document*. Ontario, Canada: Ministry of Tourism, Culture and Sport. Retrieved on August 9, 2022, from [https://files.ontario.ca/books/mtcs\\_environmental\\_scan\\_of\\_the\\_culture\\_sector\\_en\\_0.pdf](https://files.ontario.ca/books/mtcs_environmental_scan_of_the_culture_sector_en_0.pdf).
- Conerly, T. R., Holmes, K. and Tamang, A. L. (senior contributors), Hensley, J., Trost, J. L., Alcsey, P., McGonigal, E., Griffiths, H., Keirns, N., Strayer, E., Sadler, T., Rydzewski, S. C., Scaramuzzo, G., Vyain, S., Bry, J. and Faye Jones, F. (2022). *Introduction to Sociology* 3<sup>rd</sup> ed. Houston, TX: OpenStax, Rice University. Web version retrieved on August 10, 2022, from <https://openstax.org/details/books/introduction-sociology-3e>.
- Corinthia.com. (2020). A brief history of the Matryoshka doll. *Corinthia*. Retrieved on November 6, 2022, from <https://www.corinthia.com/st-petersburg/discover-st-petersburg/a-brief-history-of-the-matryoshka-doll/>.
- Couch, E. (May 28, 2019). Kokoshnik: Not just for fairy tales. *The Moscow Times*. Retrieved on October 26, 2022, from <https://www.themoscowtimes.com/2019/05/28/kokoshnik-not-just-for-fairy-tales-a65777>.

- Couling, N. and Jensen, V. (2023), Tatiana Plakhova. *Explorations in Ocean Space*. Retrieved on March 5, 2023, from <https://explorationsin.wixsite.com/oceanspace/copy-of-aliki-jos-by-saara-palmujok>.
- Craven, J. (November 14, 2019). Russian history in architecture. *ThoughtCo*. Retrieved on October 6, 2022, from <https://www.thoughtco.com/russian-history-in-architecture-and-pictures-4065259>.
- Craven, J. (August 19, 2019). Surrealism, the amazing art of dreams: Discover the weird world of Salvador Dalí, René Magritte, Max Ernst and others. *ThoughtCo*. Retrieved on November 12, 2022, from <https://www.thoughtco.com/what-is-surrealism-183312>.
- Croizier, R. (2014). Tatlin's tower: The monument to the future that never was. *World History Connected*. Retrieved on January 19, 2023, from [https://worldhistoryconnected.press.uillinois.edu/11.1/forum\\_croizier.html](https://worldhistoryconnected.press.uillinois.edu/11.1/forum_croizier.html).
- Cross, A. (August 19, 2022). This band has recorded the oldest known folk song in the world. *A Journal of Musical Things*. Retrieved on February 23, 2023, from <https://www.ajournalofmusicalthings.com/this-band-has-recorded-the-oldest-known-folk-song-in-the-world/>.
- Crossroads. (2009). Solzhenitsyn: A life with no lies. *A Homage to His Life, Works and Relentless Love for Freedom* (a symposium convened at Fordham University, New York City on Monday, March 23, 2009, at 7:00 PM).
- Cultural Studies. (2022). Winter egg. Retrieved on December 26, 2022, from <https://kulturologia.ru/blogs/210119/41991/> (in Russian).
- Davydov, D. (2012). 16 lines: Coachman, don't drive horses: Nikolai von Ritter. Retrieved on August 11, 2023, from: <https://stihi.ru/2012/08/09/4348> (in Russian).
- De Magistris, A., Adamov, O. L. and Martinoglio, M. (2014-2015). The origins of Arata Isozaki's spatial constructions: Japanese tradition and Russian avant-garde. *Politico di Milano*. Scuola di Architettura Urbanistica Ingegneria delle Costruzioni Milano Laurea Magistrale. Retrieved on November 22, 2022, from file:///C:/Users/AKBangoura/Downloads/2016\_Aprile\_Martinoglio.pdf.
- Definitions.net. (2021). Definitions for metarealism. *Definitions & Translations*. Retrieved on November 12, 2022, from <https://www.definitions.net/definition/metarealism>.
- Definitions.net. (2022). Definitions for kokoshnik. *Definitions & Translations* (STANDS4 LLC). Retrieved on October 25, 2022, from <https://www.definitions.net/definition/kokoshnik>.
- depositphotos. (2022) Tubeteika: Kazakh skull hat. Retrieved on October 31, 2022, from <https://depositphotos.com/22746595/stock-photo-kazakh-skullcap.html>.
- Design & Trends. (July 20, 2021). Paper architects. *Floornature Architecture and Surfaces* 20. Retrieved on January 16, 2023, from <https://www.floornature.com/design-trends/emstiamo-ancora-pensando-fuori-dagli-schemi-respirando-la-no-16447/>.
- Dexter. (March 26, 2018). Kamchatka is a country of volcanoes: What do travelers look for on the "edge of geography"? *Kamchatka, News, Business, Travel*. Retrieved on September 14, 2022, from <https://kamchatka.name/news/kamchatka-is-a-country-of-volcanoes-what-do-travelers-look-for-on-the-edge-of-geography.htm>.

- Dmitriev, M./Higher School of Economics (HSE) University. (December 24, 2021). 'A Delicate Fractal': What our present looks like in the future. *HSE University Newsletter*. Retrieved on June 18, 2023, from <https://www.hse.ru/en/news/community/545709396.html>.
- Dobbs, M. (March 6, 1989). Russia's reclaimed master. *The Washington Post*. Retrieved on November 13, 2022, from <https://www.washingtonpost.com/archive/lifestyle/1989/03/06/russias-reclaimed-master/4d4e2351-72b0-448d-a085-d501210f02c8/>.
- Dolgans. (2022). Narodi Dolgani. Retrieved on September 19, 2022, from <https://nazaccent.ru/nations/dolgans/> (in Russian).
- Domokos, P. (2022). Udmurt. *Encyclopedia of World Cultures* (Encyclopedia.com). Retrieved on September 17, 2022, from <https://www.encyclopedia.com/places/commonwealth-independent-states-and-baltic-nations/cis-and-baltic-political-geography/udmurt>.
- Dronyuk, I., Kalinchuk, V. and Greguš ml., M. (2019). Protection of images based on fractal geometry. *Procedia Computer Science* 160:515–520. Retrieved on July 1, 2023, from [https://www.sciencedirect.com/science/article/pii/S1877050919317557?ref=pdf\\_download&fr=RR-2&rr=7dfddb2cae4065c](https://www.sciencedirect.com/science/article/pii/S1877050919317557?ref=pdf_download&fr=RR-2&rr=7dfddb2cae4065c). <https://doi.org/10.1016/j.procs.2019.11.055>.
- Dupuis, J-F. (2022). Abazin. *Deviant Art*. Retrieved on September 12, 2022, from <https://www.deviantart.com/jfdupuis/art/Abazin-913687711>.
- Dvoryatkina, S., Smirnov, E. and Lopukhin, A. (2017). New opportunities of computer assessment of knowledge based on fractal modeling. *3rd International Conference on Higher Education Advances, HEAD'17*, Universitat Politècnica de València, València, Spain, 2017. Retrieved on June 25, 2023, from <https://archive.headconf.org/head17/wp-content/uploads/pdfs/5445.pdf>. <https://doi.org/10.17265/1539-8080/2017.07.005>.
- Dvoryatkina, S., Smirnov, E. and Lopukhin, A. (July 2017). New opportunities of computer assessment of knowledge based on fractal modeling. *US-China Foreign Language* 15(7):452-459. Retrieved on June 11, 2023, from <https://www.davidpublisher.com/Public/uploads/Contribute/59bb2f6a60523.pdf>. <https://doi.org/10.17265/1539-8080/2017.07.005>.
- Easter Egg Coronation. (2022). Easter egg (Fabergé Museum). Retrieved on December 19, 2022, from <https://fabergemuseum.ru/kollekczii/shedevryi-kollekczii/blyudo-s-monogrammami-imperatora-nikolaya-ii-i-imperatriczyi-aleksandryi-fedorovnyi> (in Russian).
- Editor. (2020). History of wooden Matryoshka nesting dolls. *Russian Legacy*. Retrieved on November 6, 2022, from <https://russianlegacy.com/matryoshka-nesting-dolls>.
- Efremov, P. E. (2000). *Dolgan Folklore*. Novosibirsk, Russia: Publishing House of the Institute of Archeology and Ethnography. Retrieved on September 18, 2022, from <https://xn--80abubbalb5cgec5b4kf.xn--p1ai/find/lib/nddolg2.pdf> (in Russian).
- Eglash, R. (1999). *African Fractals: Modern Computing and Indigenous Design*. New Brunswick, NJ: Rutgers University Press.
- Eglash, R. (March 5, 2017). Unalienated value. *P2PF Wiki*. Retrieved on September 19, 2022, from [https://wiki.p2pfoundation.net/Unalienated\\_Value](https://wiki.p2pfoundation.net/Unalienated_Value).

- Elkhova O. I. (2014). Fractality of virtual reality. *Bulletin of Bashkir University* 19(1):210-214 (in Russian).
- Encyclopedia.com. (2019). Nikolaus Bernoulli, 1695-1726: Swiss Mathematician. Retrieved on June 4, 2023, from <https://www.encyclopedia.com/science/encyclopedias-almanacs-transcripts-and-maps/nikolaus-bernoulli>.
- Encyclopedia.com. (2019). Neo-Baroque. Oxford University Pres. Retrieved on January 31, 2023, from <https://www.encyclopedia.com/education/dictionaries-thesauruses-pictures-and-press-releases/neo-baroque>.
- Enterman, A. (December 15, 2009). The Matryoshka doll in Russian culture. *Macalester*. Retrieved on November 7, 2022, from <https://www.macalester.edu/russian/about/resources/miscellany/matryoshka/>.
- Erickson, T. M. (1999). A critique of Mar's theory of alienation. Master of Arts Dissertation in Politics, University of South Africa, Pretoria, South Africa.
- Ermakova, E. (July 27, 2021). Fashion like a Russian: Kokoshnik, a traditional headdress. *Daily Art*. Retrieved on October 27, 2022, from <https://www.dailyartmagazine.com/russian-kokoshnik-traditional-headdress/>.
- Erovenko V. A. (2015). The concept of the Mandelbrot fractal from a mathematical and philosophical point of view. *Mathematical Structures and Modeling* 4(36):29-39 (in Russian). Retrieved on August 7, 2022, from <https://cyberleninka.ru/article/n/kontseptsiya-fraktala-mandelbrota-s-matematicheskoy-i-filosofskoy-tochek-zreniya>.
- Euler-Goldbach-Vinogradov theorem on prime numbers. (2022). *Electronic Resources* (in Russian). Retrieved on August 14, 2022, from <http://mathemlib.ru/books/item/f00/s00/z0000014/st020.shtml>.
- Eurotex. (2009). T<sub>E</sub>X education. Retrieved on September 12, 2022, from <https://www.ntg.nl/maps/39/14.pdf>.
- Express to Russia. (2022). St. Basil's Cathedral, Moscow. *Moscow Guide*. Retrieved on October 10, 2022, from [https://www.expresstorussia.com/guide/moscow\\_basil\\_cathedral.html](https://www.expresstorussia.com/guide/moscow_basil_cathedral.html).
- Fabergé. (2022). The imperial eggs. The World of Fabergé. Retrieved on October 13, 2022, from <https://www.faberge.com/the-world-of-faberge/the-imperial-eggs>.
- Faberge Egg. (2000—202000 Winter humpty dumpty. Retrieved on December 26, 2022, from <https://www.eggs.zhukovich.ru/faberzhe/faberzhe.php?egg=Zimnee> (in Russian).
- Fabergé Museum. (2022). Easter egg lilies of the valley. Retrieved on December 25, 2022, from <https://fabergemuseum.ru/kollekczii/shedevryi-kollekczii/paskhalnoye-yaytso-landyshi> (in Russian).
- Fabergé Research Site. (2022). Fabergé imperial egg chronology. Retrieved on October 25, 2022, from <https://fabergeresearch.com/eggs-faberge-imperial-egg-chronology/#rosebudegg>.
- Feather of Me. (2015). Tatiana Plakhova—Chaotic structures. Retrieved on March 5, 2023, from <https://featherofme.com/tatiana-plakhova-chaotic-structures/>.
- Fedorova, A. (September 4, 2019). A\$AP Rocky's 'babushka' scarf: Going deeper on the rapper's love of Russia. *Dazed*. Retrieved on March 3, 2023, from <https://>

- www.dazeddigital.com/fashion/article/45843/1/asap-rocky-babushka-boi-russian-rap-scarf-gucci-hip-hop-culture.
- Fedorova, A. (June 19, 2019). A new wave of underground Russian creatives are rising up against adversity. *Dazed*. Retrieved on November 14, 2022, from <https://www.dazeddigital.com/fashion/article/44923/1/rising-russian-underground-creatives-moscow-faces-laces-festival-fashion-music>.
- Fedorova G. A. (2004). Traditional-culture-of-Gorokhovetsky-krai-Vol. 1. Moscow, Russia: State Republican Center of Russian Folklore. Retrieved on January 09, 2023, from <http://folkcentr.ru/wp-content/uploads/2014/01/культура-Гороховецкого-края-Т.1.pdf> (in Russian).
- Fedorovskaya T. D. (2017). Polkhov-Majdanskaya Matryoshka. *Russian Crafts*. Retrieved on January 20, 2023, from <https://russianarts.online/124398-polkhov-majdanskaya-matreshka/> (in Russian).
- Fedorovskaya T. D. (2019). Vyatkaya Matryoshka. *Russian Crafts*. Retrieved on January 29, 2023, from <https://russianarts.online/179940-vyatskaya-matryoshka/> (in Russian).
- Field, A. and Albert, M. (December 23, 2022). Vladimir Nabokov. *Encyclopedia Britannica*, Retrieved on January, 27, 2023 from <https://www.britannica.com/biography/Vladimir-Nabokov>
- Fiore, J. (August 19, 2019). How Russian artist Natalia Goncharova revolutionized the Avant-Garde. *Artsy*. Retrieved on May 30, 2023, from <https://www.artsy.net/article/artsy-editorial-russian-artist-natalia-goncharova-revolutionized-avant-garde>.
- Firebird Workshop. (March 10, 2021). What are Russian Nesting Dolls?—FAQs about Matryoshka dolls. Retrieved on November 4, 2022, from <https://firebirdworkshop.com/blogs/our-blog/what-are-russian-nesting-dolls>.
- Firth, E. (November 4, 2020). The Abramtsevo estate and the origins of the Russian arts and crafts movement. *The Cultural Me*. Retrieved on November 6, 2022, from <https://thecultural.me/the-abramtsevo-estate-and-the-origins-of-the-russian-arts-and-crafts-movement-568152>.
- Fonda, B. (2023). The golden peacock. *Jewish Folk Songs*. Retrieved on February 27, 2023, from <http://www.jewishfolksongs.com/en/golden-peacock>.
- Free Tour and More. (2022). Matryoshka doll story. Retrieved on November 10, 2022, from <https://www.tour-gratis-a-pie.com/en/matryoshka-doll-history/>.
- Frege, G. (1892/1952). On sense and reference. In Geach, P. T. and Black, M. (eds.). *Translations from the Philosophic Writings of Gottlob Frege*. Oxford, UK: Blackwell.
- Fretwell, K. and Starzomski, B. (2014). Pink salmon, humpback salmon, humpie: Oncorhynchus gorbuscha. *Biodiversity of the Central Coast*. Retrieved on September 22, 2022, from <https://www.centralcoastbiodiversity.org/pink-salmon-bull-oncorhynchus-gorbuscha.html>.
- Friedman, J. (2010). *Beyond Symbolism and Surrealism: Alexei Remizov's Synthetic Art*. Evanston, IL: Northwestern University Press.
- Friesen, L. (November 2016, edited July 2019). 1 Corinthians. *Mental Symmetry*. Retrieved on May 1, 2023, from <https://mentalsymmetry.com/corinthians.php>.

- Froese, R., Capuli, E., Garilao, C. and Pauly, D. (2022). *Oncorhynchus gorbuscha*. *The Species Table*. Retrieved on September 22, 2022, from <https://www.fishbase.se/summary/oncorhynchus-gorbuscha.html#>.
- From Behind the Island to the Strezen. (2011-2023). Zvyki.com. Retrieved on August 10, 2023, from: [https://zvyki.com/song/130060159/Muzhskoj\\_hor\\_-\\_Iz-za\\_ostrova\\_na\\_strezhen/](https://zvyki.com/song/130060159/Muzhskoj_hor_-_Iz-za_ostrova_na_strezhen/).
- Galactic Resonance. (2023). Tatiana Plakhova—Complexity graphics. Retrieved on March 5, 2023, from <https://www.galacticresonance.org/exhibit/tatiana-plakhova-complexity-graphics/>.
- Galaktionova, Z. (2022a). Kamchadaly is a difficult fate of a small people. Retrieved on September 19, 2022, from <https://travelask.ru/articles/kamchadaly-tyazhelaya-sudba-malochislennogo-naroda> (in Russian).
- Galaktionova, Z. (2022b). Tofalary are a small Siberian ethnic group with deep roots. Retrieved on September 23, 2022, from <https://travelask.ru/articles/tofalary-tofa-karagasy-malochislenny-sibirskiy-etnos-s-glubokimi-kornyami> (in Russian).
- Galaktionova, Z. (2022c). Khanty: Courageous inhabitants of the North. Retrieved on September 25, 2022, from <https://travelask.ru/articles/2697-hanty-muzhestvennye-zhiteli-severa> (in Russian).
- Galaktionova, Z. (2022d). Eskimosy: interesting facts from the northern people life. Retrieved on September 28, 2022, from <https://travelask.ru/articles/eskimosy-interesnye-fakty-iz-zhizni-severnogo-naroda> (in Russian).
- Galaktionova, Z. (2022e). Hakasy: History, way of life, ancient customs. Retrieved on September 28, 2022, from <https://travelask.ru/articles/hakasy-istoriya-uklad-zhizni-drevnie-obychai> (in Russian).
- Gammel, I. (September 5, 2016). Avant-garde. *Routledge Encyclopedia of Modernism*. Retrieved on November 11, 2022, from <https://www.rem.routledge.com/articles/avant-garde>.
- Gan, A. (1927). Notes on Kazimir Malevich. *Sovremennaya Arkhitektura* 3:104-106. Retrieved on November 21, 2022, from <https://thecharnelhouse.org/2012/11/22/the-arkhitektons-and-planets-of-kazimir-malevich-and-his-students-nikolai-suetin-and-iakov-chashnik-mid-1920s-with-commentary-by-aleksei-gan/>.
- Gapontsev, V. L., Fedorov, V. A., Gapontseva, M. G. and Khuziakhmetov, A. N. (2019). Description language of educational content structure: Possibilities of modern mathematics. *EURASIA Journal of Mathematics, Science and Technology Education* 15(3):em1678:1-16. Retrieved on June 25, 2023 from <https://www.ejmste.com/download/description-language-of-educational-content-structure-possibilities-of-modern-mathematics-7633.pdf>. <https://doi.org/10.29333/ejmste/103031>.
- Garage Museum of Contemporary Art. (2020). Paper architecture. An anthology. *Russia Beyond*. Retrieved on January 20, 2023, from <https://www.rbth.com/arts/332984-soviet-paper-architecture>.
- Gaylord, C. (May 30, 2012). Peter Carl Fabergé: How Communism crushed the Fabergé egg. *The Christian Science Monitor*. Retrieved on October 22, 2022, from <https://www.csmonitor.com/Technology/Tech-Culture/2012/0530/Peter-Carl-Faberge-How-Communism-crushed-the-Faberge-egg>.

- Gaztanaga, E. (2021). What is inside a Black Hole? The fascinating history and science of the Cosmos. *Dark Cosmos*. Retrieved on November 8, 2022, from <https://darkcosmos.com/home/f/inside-a-black-hole>.
- Gill, C. L. K. (2015). A 'Rupture Backwards': The re-emergence of shamanic sensibilities amongst the Russian avant-garde from 1900-1933. *Durham Theses, Durham University*. Available at Durham E-Theses Online: <http://etheses.dur.ac.uk/11296/> Retrieved on November 22, 2022, from [http://etheses.dur.ac.uk/11296/1/A\\_%E2%80%98Rupture\\_Backwards%E2%80%99\\_The\\_Re-emergence\\_of\\_Shamanic\\_Sensibilities\\_Amongst\\_the\\_Russian.pdf?DDD29+](http://etheses.dur.ac.uk/11296/1/A_%E2%80%98Rupture_Backwards%E2%80%99_The_Re-emergence_of_Shamanic_Sensibilities_Amongst_the_Russian.pdf?DDD29+).
- Gilmore, A. (November 2014). Raising our quality of life: The importance of investment in arts and culture (Centre for Labour and Social Studies Paper Policy). Retrieved on August 9, 2022, from [http://classonline.org.uk/docs/2014\\_Policy\\_Paper\\_-\\_investment\\_in\\_the\\_arts\\_-\\_Abi\\_Gilmore.pdf](http://classonline.org.uk/docs/2014_Policy_Paper_-_investment_in_the_arts_-_Abi_Gilmore.pdf).
- Global Construction Review (GCR) Staff. (December 15, 2020). Russian engineers give Buckminster Fuller's geodesic dome a fractal makeover. *Global Construction Review*. Retrieved on June 20, 2023, from <https://www.globalconstructionreview.com/russian-engineers-give-buckminster-fullers-geodesic/>.
- Gold, N./Nikita Sadkov. (2020). *One Life in Russia* (electronic book). Retrieved on April 26, 2023, from <https://www.scribd.com/document/489211596/One-Life-in-Russia#>.
- Gongini, B. I. (May 7, 2019). Avant-garde fashion: A modern definition, *History & Influences*. Retrieved on November 11, 2022, from <https://barbaraigongini.com/universe/blog/avant-garde-fashion-a-modern-definition/>.
- Gorlova, I. I. (ed.). (2018). Native traditions. *Heritage of Centuries Electronic Scientific Journal of the Southern Branch Heritage Institute* 4(16). Retrieved on February 17, 2023, from [http://heritage-magazine.com/wp-content/uploads/2018/12/2018\\_4.pdf](http://heritage-magazine.com/wp-content/uploads/2018/12/2018_4.pdf) (in Russian).
- Gorokhova, E. (2010). *A Mountain of Crumbs: A Memoir*. New York, NY: Simon and Schuster.
- Govar, N. A. (2016). Alexei Stanchinsky: Between romantic exaltation and strict self-organization: "DO FORGET?" *Scientific Notes of the Gnssin Russian Academy of Music* 3(18) (in Russian).
- Government Decree of the Russian Federation. (March 24, 2000, No. 255). *Resolution of the Russian Federation Government: Electronic Fund of Legal and Regulatory Documents*. Retrieved on September 18, 2022, from <https://docs.cntd.ru/document/901757631> (in Russian).
- Grand Peterhof Palace. (2009-2022). Audience hall of the Peterhof Palace. Retrieved on November 27, 2022, from <https://www.spbmuzei.ru/bolshoj-petergofskij-dvorecz> (in Russian).
- Greer, J. M. (October 31, 2018). America and Russia: Tamanous and Sobornost. *Ecosophia*. Retrieved on April 23, 2023, from <https://www.ecosophia.net/america-and-russia-tamanous-and-sobornost/>.
- Grice, H. P. (1975). Logic and conversation. In Cole, P. (ed.). *Syntax and Semantics: vol. 3: Speech Acts*. New York, NY: Academic Press. [https://doi.org/10.1163/9789004368811\\_003](https://doi.org/10.1163/9789004368811_003).
- Groys, B. (December 31, 2019). The birth of socialist realism from the spirit of the Russian avant-garde. *The Russian Avant-Garde and Radical Modernism*.

- Boston, MA: Academic Studies Press. <https://doi.org/10.1515/9781618111425-010>.
- Gumelev, L. N. (2008). *Ancient Rus Great Steppe*. Moscow, Russia: Ayres-Press.
- Gusarova, A. (2013). Symbolism and Russian art. *The Tretyakov Gallery Magazine* 4(5). Retrieved on November 13, 2022, from <https://www.tretyakovgallery.com/articles/N2-2013-39/symbolism-and-russian-art>.
- Guskov, S. (October 31, 2022). It's a surreal life for young Russian artists. *Russian Art Focus*. Retrieved on November 12, 2022, from <https://russianartfocus.com/discoveries/its-a-surreal-life-for-young-russian-artists/>.
- Haarmann, H. (2000). The soul of mother Russia: Russian symbols and pre-Russian cultural identity. *Gale Academic Onefile*. Retrieved on February 27, 2023, from <https://go.gale.com/ps/i.do?id=GALE%7CA66355314&sid=googleScholar&v=2.1&it=r&linkaccess=abs&issn=02756935&p=AONE&sw=w&userGroupName=anon%7E5a9acab9>.
- Hargittai, I. and Pickover, C. A., eds. (1992), *Spiral Symmetry*. Singapore City, Singapore: World Scientific Publishing Company. <https://doi.org/10.1142/1370>.
- Harlan, B. (April 13, 2016). How a Russian factory gave birth to a street-art renaissance. *National Geographic*. Retrieved on October 5, 2022, from <https://www.nationalgeographic.com/photography/article/how-a-russian-factory-gave-birth-to-a-street-art-renaissance>.
- Harris, S. (Spring 2015). God flashed me. *Math, Religion, and the Universe*. Retrieved on August 8, 2022, from <http://mathreligionandtheuniverse.org/GodFlashedMe.htm>.
- Hatherley, O. (November 4, 2011). The constructivists and the Russian revolution in art and architecture. *The Guardian*. Retrieved on November 13, 2022, from <https://www.theguardian.com/artanddesign/2011/nov/04/russian-avant-garde-constructivists>.
- Hayden, T. (2003). What is folk music? *Capital District Folk Music*. Retrieved on February 23, 2023, from <http://www.cs.rpi.edu/~haydent/folk/folk.html>.
- Hepburn, C. (2015). Aleksey Stanchinsky (1888-1914): A guide to research. Master's Thesis in Historical Musicology Submitted to the Graduate Faculty of Texas Tech University. Retrieved on March 15, 2023, from <https://ttu-ir.tdl.org/bitstream/handle/2346/66114/HEPBURN-THESIS-2015.pdf?sequence=1>.
- Hidden Dimension Galleries. (2022). Fractal mathematics. Retrieved on August 2, 2022, from [http://www.hiddendimension.com/fractalmath/Mathematics\\_Main.html](http://www.hiddendimension.com/fractalmath/Mathematics_Main.html).
- Higgins, C. (November 30, 2011). The late Movies: math, music, video. *Mental Floss*. Retrieved on March 14, 2023, from <https://www.mentalfloss.com/article/29380/late-movies-math-music-video>.
- Higgs, J. (2015). *Stranger than We Can Imagine*. Berkeley, CA: Soft Skull Press, and imprint of Counterpoint. Retrieved on April 27, 2023, from <https://dokumen.pub/stranger-than-we-can-imagine-9781593766269-9781619026803.html>.
- HiSoUR. (2023). Soviet architecture. *Manuals Library*. Retrieved on January 19, 2023 from <https://www.hisour.com/soviet-architecture-33540/>
- HiSoUR. (2022). High modernism. Retrieved on February 3, 2023, from <https://www.hisour.com/high-modernism-34982/>.

- History of Russian Anthems. (2015). Dossier. TASS. Retrieved on November 14, 2023, from <https://tass.ru/info/825290?ysclid=loyd8k1duo390622971> (in Russian).
- Hodges, D. C. (2000). *The falling scholar: Essays in the outside*. Doctoral thesis submitted to the Faculty of Graduate Studies, The University of British Columbia, Canada. Retrieved on February 9, 2023, from <https://lhc.ucsd.edu/mca/Paper/DrDi/falling.htm>.
- How long should the sentence be in the text. (2022). Notes of the literary editor. *DZEN.RU*. Retrieved on August 25, 2023, from: <https://dzen.ru/a/YdFl1Xp0BSvSZHAb> (in Russian).
- Httpsakakij2000. (2020). The celestial phenomenon of 1566 over Basel. *Cultural studies*. Retrieved on August 01, 2023 from <https://kulturologia.ru/blogs/160320/45787/>; <https://kulturologia.ru/files/u18172/181720055.jpg> (in Russian).
- Irisova, M. M. (2011). The study of V. Nabokov's creativity at school. *Lingua Mobilis* 1(27):130-134. Retrieved on September 04, 2023, from <https://cyberleninka.ru/article/n/izuchenie-tvorchestva-v-nabokova-v-shkole> (in Russian).
- Imago Mundi. (2023a). Yellow fractal, orange fractal. *Google Arts and Culture*. Retrieved on June 18, 2023, from <https://artsandculture.google.com/asset/sergey-katran-yellow-fractal-orange-fractal-diptych-sergey-katran/4gEuUstY8hAH0w?hl=en>.
- Imago Mundi. (2023b). Artist Sergey Katran. *Imago Mundi Collection*. Retrieved on June 18, 2023, from <https://imagomundicollection.org/artworks/sergey-katran-yellow-fractal-orange-fractal/>.
- Institute for Russian Music Studies. (2019). Symbols, signs, and meaning in Russian music. Second Conference by the Institute for Russian Music Studies conducted from July 9 – 12, 2019 in Vipiteno, Italy. Retrieved on March 20, 2023, from <https://static1.squarespace.com/static/53116c88e4b0c281596f0b0b/t/5d71c89b41de5e00011368f2/1567738027175/conference+booklet+2019.pdf>.
- Institute of the Estonian Language. (1991a). The Aleuts. *The Peoples of the Red Book*. Retrieved on September 13, 2022, from <https://www.eki.ee/books/redbook/aleuts.shtml>.
- Institute of the Estonian Language. (1991b). The Veos. *The Peoples of the Red Book*. Retrieved on September 13, 2022, from <https://www.eki.ee/books/redbook/veps.shtml>.
- IP Andreeva K. M. Moscow. (2008-2023). Крoхoткк. Retrieved on February 15, 2023, from [https://libroroom.ru/catalog/knigi/khudozhestvennaya\\_literatura/literatura\\_rossii/russkaya\\_klassika/krokhotki.html](https://libroroom.ru/catalog/knigi/khudozhestvennaya_literatura/literatura_rossii/russkaya_klassika/krokhotki.html) (in Russian).
- Islam.Global. (2020). Skullcap: Sunnah or an element of culture? Retrieved on October 21, 2022, from <https://islam.global/obshchestvo/kultura/tyubeteyka-sunna-ili-element-kultury/> (in Russian).
- internation 2 Ltd. (October 21, 2021). Are Russian dolls good luck? *Best of World Gifts*. Retrieved on November 4, 2022, from [https://www.giftspecialslive.co.uk/blog/read\\_199466/are-russian-dolls-good-luck.html](https://www.giftspecialslive.co.uk/blog/read_199466/are-russian-dolls-good-luck.html).
- invaluable. (2022). The surprising market for Russian nesting dolls. *In Good Taste*. Retrieved on November 4, 2022, from <https://www.invaluable.com/blog/russian-nesting-dolls/>.
- Jackson, J. D. (1998). *Classical Electrodynamics*, 3<sup>rd</sup> ed. New York, NY: Wiley. <https://doi.org/10.1119/1.19136>.

- Jain 108 Academy. (May 3, 2020). Fractal: Russian nesting dolls. Retrieved on November 7, 2022, from <https://www.facebook.com/jain108academy/posts/fractal-russian-nesting-dollsour-best-definition-of-fractal-where-the-inside-is-/1432859133566482/>.
- Janecek, G. (1978). Andrey Bely: A critical review. *Slavic Languages and Societies*. 2. University Press of Kentucky. Retrieved on February 5, 2023, from <https://core.ac.uk/download/pdf/232566941.pdf>.
- Jenni. (2022). 5 types of Kokoshnik tiaras. *Girlinthetiara.com*. Retrieved on November 1, 2022, from <https://girlinthetiara.com/5-types-of-kokoshnik-tiaras/>.
- Jeyaseeli, S. (2014). Fractal based space vector PWM for three level inverter. *International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering* 3(6):9904-9911. Retrieved on August 8, 2022, from [https://www.ijareeie.com/upload/2014/june/15A\\_Fractal.pdf](https://www.ijareeie.com/upload/2014/june/15A_Fractal.pdf).
- j.han5 (May 6, 2016). "I and the Village" by Marc Chagall. *Great Works of World Literature, Baruch College*. Retrieved on November 13, 2022, from <https://blogs.baruch.cuny.edu/eng2850sp16/?p=306>.
- Jhaveri, B. and Fernandes, C. (2022). Russia-google-earth-fractals. *Fractal Enlightenment*. Retrieved on June 3, 2023, from <https://fractalenlightenment.com/35292/fractals/breathtaking-satellite-photos-of-fractal-patterns-on-earth/attachment/russia-google-earth-fractals>.
- Jordan, M. (June 10, 2022). The Alaska factor: Optical deceit in vast landscapes." *Science Writer*. Retrieved on September 14, 2022, from <https://www.the-sciencewriter.org/scale-stories/the-alaska-factor>.
- Kargopol Kokoshniki. (2015). Russian ornaments and patterns. Retrieved on January 10, 2023, from <https://rusorn.ru/каргопольские-кокошники/> (in Russian).
- Kates, C. A. (1980). *Pragmatics and Semantics: An Empiricist Theory*. Ithaca, NY: Cornell University Press. <https://doi.org/10.7591/9781501752179>.
- KazimirMalevich.org. (2020). Kazimir Malevich biography. *Marymount University*. Retrieved on November 18, 2022, from <https://www.kazimirmalevich.org/biography/>.
- kazimir-malevich.org. (2022). Kasimir Severinovich Malevich biography in details. *Kazimir Severinovich Malevich: The Complete Works*. Retrieved on November 18, 2022, from <https://www.kazimir-malevich.org/biography.html>.
- Keating, K. D. (Spring 2016). Romantic nationalism and the image of the bird-human in Russian art of the 19<sup>th</sup> and early 20<sup>th</sup> Century. *Bard Digital Commons*. Retrieved on February 27, 2023, from [https://digitalcommons.bard.edu/cgi/viewcontent.cgi?article=1216&context=senproj\\_s2016](https://digitalcommons.bard.edu/cgi/viewcontent.cgi?article=1216&context=senproj_s2016).
- Kereki. (2022). Retrieved on September 19, 2022, from <https://travelask.ru/articles/kereki-ih-ostalos-tolko-chetvero> (in Russian).
- Khadson, R. L. and B. Mandelbrot. (2006). *Not Obedient Markets: Fractal Revolution in Finance/Ne Poslushnye Rynki: Fraktalnaya Revolyutsiya v Finansakh*. Moscow, Russia: Vil'yams Publishers.
- Khaustovich, E. (2019). Natasha made in Russia. *Artmajeur*. Retrieved on October 29, 2022, from <https://www.artmajeur.com/es/chandralli/artworks/13840355/russian-girl-60x60-art-canvas-print-kokoshnik-russia>

- Khaytun, S. D. (2007). *From the Ergodic Hypothesis to the Fractal Picture of the World: The Birth and Comprehension of the New Paradigm/Ot Ergodicheskoy Gipotezy k Fraktanoy Kartine Mira Rozhdenie i Osmyslenie Novoy Paradigmy*. Moscow, Russia: KomKniga Publishers.
- Khorokhordina O. V. (2019). Features of the cycle “Crumbs” by A. I. Solzhenitsyn’s structural and semantic organization. *Proceedings of the Ural Federal University Series 2: Humanities. Sciences* 2(1), 184:57-69. Retrieved on August 18, 2023, from <chrome-extension://efaidnbmnnnibpcajpcglclefindmkaj/https://publications.hse.ru/mirror/pubs/share/direct/308216723> (in Russian).
- Khoroshavin, S. (2016). The Veps: People with ancient roots. *Russia Beyond* (copyright: Rossiyskaya Gazeta). Retrieved on September 17, 2022, from [https://www.rbth.com/society/2016/07/03/the-veps-people-with-ancient-roots\\_607747](https://www.rbth.com/society/2016/07/03/the-veps-people-with-ancient-roots_607747).
- Kirillov, A. A. (2009). *A Tale of Two Fractals / Povest o Dvukh Fraktalakh*. Moscow, Russia: MTsNMO Publishing House (republished in English by Birkhäuser/Walter de Gruyter, Berlin, Germany in 2013). <https://doi.org/10.1007/978-0-8176-8382-5>.
- Knycx Journeying. (2022). Russian architecture: Moscow onion domes. Retrieved on October 7, 2022, from <https://knycxjourneying.com/moscow-onion-domes/>.
- Kodzis B. (1997). Lyrical miniatures of Alexander Solzhenitsyn. Literature: Appendix to the newspaper *The First of September* 1997(30) (in Russian).
- Kopenkina, O. (2019). Vasily Kandinsky: The abstractionism origin history. *Painting Diary*. Retrieved on February 20, 2023, from <https://www.arts-dnevnik.ru/vasily-kandinsky/> (in Russian).
- Kordonsky, S. (2011). *Fractal Matrix Tables as a Tool for Ontologies Creation/ Fraktal'nyye Matrichnyye Tablitsy kak Instrument dlya Sotvoreniya Ontologiy*. Washington, DC: South Eastern Publishers.
- Koshina, N. (2022a). Tazy: Almost disappeared people. Retrieved on September 22, 2022, from <https://travelask.ru/articles/tazy-pochti-ischeznuvshie-lyudi> (in Russian).
- Koshina, N. (2022b). The Eveny (Lamuts) are people of the north. Retrieved on September 27, 2022, from <https://travelask.ru/articles/eveny-lamuty-lyudi-severa> (in Russian).
- Koshina, N. (2022c). Komi (Komi-Zyryans, Komi-Permyaks, Komi-voityr): Original and bright. Retrieved on September 28, 2022, from <https://travelask.ru/articles/komi-komi-zyryane-komi-permyaki-komi-voityr-samobytnye-i-yarkie> (in Russian).
- Kotar, N. (September 2, 2016). Five interesting facts about Russian ritual lamentation. *Story Circle*. Retrieved on February 27, 2023, from <https://nicholaskotar.com/2016/09/02/russian-ritual-lamentation/>
- Kotoman, N. (2022a). Nagaibaki are a small indigenous people of Russia. Retrieved on September 20, 2022, from <https://travelask.ru/articles/nagaybaki-malochislenny-korennoy-narod-rossii> (in Russian).
- Kotoman, N. (2022b). Nanaytsy people are the indigenous people of the Far East. Retrieved on September 20, 2022, from <https://travelask.ru/articles/nanaytsy-korennoy-narod-dalnego-vostoka> (in Russian).

- Kotoman, N. (2022c). The Nganasany are the northernmost people of Eurasia. Retrieved on September 21, 2022, from <https://travelask.ru/articles/nganasany-samy-severnny-narod-evrazii> (in Russian).
- Kotoman, N. (2022d). Nenets: Ancient inhabitants of the North. Retrieved on September 21, 2022, from <https://travelask.ru/articles/nentsy-starinnye-zhiteli-severa> (in Russian).
- Kotoman, N. (2022e). Oroki (Nani): The indigenous people of Sakhalin. Retrieved on September 21, 2022, from <https://travelask.ru/articles/oroki-nani-korennoy-narod-sahalina> (in Russian).
- Kotoman, N. (2022f). Selkupy: The unique people of Siberia. Retrieved on September 22, 2022, from <https://travelask.ru/articles/selkupy-unikalnyy-narod-sibiri> (in Russian).
- Kotoman, N. (2022g). Ulchi: The people of the North. Retrieved on September 25, 2022, from <https://travelask.ru/articles/ulchi-narod-severa> (in Russian).
- Kotoman, N. (2022h). Chelkantsy are the Altai indigenous people. Retrieved on September 26, 2022, from <https://travelask.ru/articles/chelkantsy-altayskiy-korennoy-narod> (in Russian).
- Kotoman, N. (2022i). The Chuvantsy are a small people of the Far East. Retrieved on September 26, 2022, from <https://travelask.ru/articles/chuvantsy-malochislenny-narod-dalnego-vostoka> (in Russian).
- Kotoman, N. (2022j). The Chukchi are the keepers of centuries—old traditions. Retrieved on September 26, 2022, from <https://travelask.ru/articles/chukchi-hraniteli-vekovyh-traditsiy> (in Russian).
- Kotoman, N. (2022k). Shortsyt are Kuznetsk people. Retrieved on September 27, 2022, from <https://travelask.ru/articles/shortsyt-kuznetskie-lyudi> (in Russian).
- Kotoman, N. (2022l). Entsy are native speakers of the rarest language on Earth. Retrieved on September 27, 2022, from <https://travelask.ru/articles/entsy-nositeli-redchayshego-yazyka-na-zemle> (in Russian).
- Kotoman, N. (2022m). Yakuty are hardworking and hardy people. Retrieved on September 28, 2022, from <https://travelask.ru/articles/yakuty-trudolyubivyy-i-vynoslivyy-narod> (in Russian).
- Kotoman, N. (2022n). Buryaty are the oldest people of Lake Baikal. Retrieved on September 28, 2022, from <https://travelask.ru/articles/buryaty-drevneyshiy-narod-baykala> (in Russian).
- Kovalenko G. F. (2017). Implementation of the fractal principle in the rhyming organization of a poetic text. *Bulletin of the Moscow State Regional University Series: Linguistics* 5:48-53. <https://doi.org/10.18384/2310-712X-2017-5-48-53>.
- Kremleva A. (2019). The painting of the Matryoshka doll. Retrieved on January 20, 2023, from <https://tvoitrener.ru/kak-razukrasit-matresku/> (in Russian).
- Kuiper, K. (2023). Modernism. *Encyclopedia Britannica*. Retrieved on February 3, 2023, from <https://www.britannica.com/art/Modernism-art>.
- Lampkin, B. (Mar 2, 2016). 12 facts about Saint Basil's Cathedral. *Mental Floss*. Retrieved on October 10, 2022, from <https://www.mentalfloss.com/article/76266/12-facts-about-saint-basils-cathedral>.
- Lavrentovich, D. D. and M. Kleman. (2007). *Fundamental Physics, Partially Ordered Fluids Liquid Crystals, Colloids, Fractal Structures, Polymers and Biological Objects/Osnovy Fiziki Chastichno Uporyadochennykh Sred Zhidke*

- Kristally, Koloidy, Fraktalnye Struktury, Polinery I Biologicheskie Obekty*. Moscow, Russia: Fizmatlit Publisher.
- Lazarus, M. (April 13, 2022). Alienation and action in the young Marx, Aristotle, and Arendt. *Constellations* (Wiley Open Library). Retrieved on September 19, 2022, from <https://onlinelibrary.wiley.com/doi/full/10.1111/1467-8675.12613>.
- Lesser, C. (November 15, 2017). A brief history of the Fabergé egg. *Artsy*. Retrieved on October 24, 2022, from <https://www.artsy.net/article/artsy-editorial-history-faberge-egg>.
- Levinson, S. (1983). *Pragmatics*. Cambridge, UK: Cambridge University Press. <https://doi.org/10.1017/CBO9780511813313>.
- Liang, Y-S. (March 17, 2022). Approximation of the same box dimension in continuous functions space. *Fractals* 30(2). Retrieved on August 9, 2022, from <https://www.worldscientific.com/doi/epdf/10.1142/S0218348X22500396>. <https://doi.org/10.1142/S0218348X22500396>.
- Librusec.pro. (2023). Stories and crumbs. *New Reviews*. Retrieved on February 16, 2023, from <https://librusec.pro/b/145958> (in Russian).
- Liebovitch, L. S. and Scheurle, D. (2000). Two lessons from fractals and chaos. *Complexity* 5(4):34-43. Retrieved on June 4, 2023, from <https://physics.qc.cuny.edu/uploads/14/articles/Two%20Lessons%20from%20Fractals%20and%20Chaos.pdf>. [https://doi.org/10.1002/1099-0526\(200003/04\)5:4<34::AID-CPLX5>3.0.CO;2-3](https://doi.org/10.1002/1099-0526(200003/04)5:4<34::AID-CPLX5>3.0.CO;2-3).
- Likhachev D. S. (1981). Soviet writer. *Literature—Reality—Literature*. Leningrad, Russia: Leningrad Branch (in Russian).
- Linde, J. (December 30, 2020). Fractal icon archive. Retrieved on August 4, 2022, from <http://www.joakimlinde.se/fractals/icons/index.php>.
- Liukkonen, P and Ari Pesonen, A. (2008-2018). Andrey Bely (1880-1934)—name also written Andrei Belyi; pseudonym of Boris Nikolayevich Bugaev or Bugayev. *Books and Writers*. Retrieved on January 22, 2023, from <http://authors.calendar.info/bely.htm>.
- Live Internet. (2014). Lilies of the valley imperial Easter eggs. Retrieved on December 25, 2022, from [https://www.liveinternet.ru/users/nikol\\_125/post341612445/](https://www.liveinternet.ru/users/nikol_125/post341612445/) (in Russian).
- Loginova V. A. (December 18, 2012). The author's style of Alexey Vladimirovich Stanchinsky. SuperInf.ru. Retrieved on July 06, 2023, from [https://superinf.ru/view\\_helpstud.php?id=5471](https://superinf.ru/view_helpstud.php?id=5471) (in Russian).
- Luchina, T. (2022). The artist is the light of constructivism: Gatherings by the fireplace. *Dzen.ru*. Retrieved on February 20, 2023, from <https://dzen.ru/a/YmJk9N2qgH34Zqey> (in Russian).
- Luminaries Mathematics. (2022). The outstanding mathematicos: Yu. V. Linnik. *Electronic Resources* (in Russian). Retrieved on August 15, 2022, from <http://mathsun.ru/linnik.html>.
- Luxury Columnist. (2022). The 11 most expensive Fabergé eggs and where to see them. Retrieved on October 13, 2022, from <https://luxurycolumnist.com/most-expensive-faberge-eggs/>.
- Maes, F. (2002). *A History of Russian Music: From Kamarinskaya to Babi Yar* (translated by Arnold J. Pomerans and Erica Pomerans). Berkeley, CA: University of California Press.

- Makarova, O. S. (2011). Structural and semantic unity of the cycle “Krokhotky” miniatures by A. I. Solzhenitsyn. *MIRS*. 2011 (4). Retrieved on August 16, 2023, from: <https://cyberleninka.ru/article/n/strukturno-smyslovoe-edinstvo-miniatiyur-tsikla-krohotki-a-i-solzhenitsyna> (in Russian).
- Making Music. (2021). An introduction to: Folk music. *The National Federation of Music Societies*. Retrieved on February 23, 2023, from <https://www.makingmusic.org.uk/resource/introduction-folk-music>.
- Malevich, K. (1928). Painting and the problem of architecture. *Nova Generatsiia* 3(2):115-124. Retrieved on November 23, 2022, from <https://thecharnelhouse.org/2014/03/12/suprematism-in-architecture-kazimir-malevich-and-the-arkhitektons/>.
- Malevich K. (1995). *Articles, Manifestos, Theoretical Essays and Other Works. 1913-1929. Collected Works in Five Volumes*. Volume 1. Moscow, Russia: Gilea (in Russian).
- Malevich K. (1998). *Articles and Theoretical Essays Published in Germany, Poland and Ukraine. 1924-1930: Collected Works in Five Volumes*. Volume 2. Moscow, Russia: Gilea (in Russian).
- Malevich K. (2001). *Black Square*. Saint Petersburg, Russia: Azbuka (in Russian).
- Malevich K. (2003). *Treatises and Lectures of the First Half of the 1920s: Collected Works in Five volumes*. Volume 4. Moscow, Russia: Gilea (in Russian).
- Malevich K. (2004). *Works of different years: Articles. Treatises. Manifestos and Declarations. Projects. Lectures. Recordings and Notes. Poetry: Collected Works in five volumes*. Volume 5. Moscow, Russia Gilea (in Russian).
- Mamaeva. O. (November 11, 2020). 10 fantastic Soviet paper architecture projects (PICS). *Russia Beyond*. Retrieved on November 26, 2022, from <https://www.rbth.com/arts/332984-soviet-paper-architecture>.
- Mandelbrot, B. B. (2004). *Fractals, Case and Finance (1969-1997)/Fraktaly, Sluchay i Finansy (1959-1997)*. Moscow, Russia: RKhD Publishers.
- Mandelbrot, B. B. (2009). *Fractals and Chaos: The Mandelbrot Set and Beyond*. Heidelberg, Germany and New York, NY: Springer.
- Marc Chagall National Museum, Nice. (2017). The Betrothed and the Eiffel Tower. Retrieved on February 12, 2023, from [https://artchive.ru/marcchagall/works/224835-Obruchennye\\_i\\_Ejfeleva\\_bashnja](https://artchive.ru/marcchagall/works/224835-Obruchennye_i_Ejfeleva_bashnja) (in Russian).
- marijeberting. (2022). Fractal Mandelbulb 3D. *Deviant Art*. Retrieved on October 10, 2022, from <https://www.deviantart.com/marijeberting/art/St-Basil-s-Cathedral-Moscow-850500928>.
- Martyn, B. (1995; eBook published in 2017). *Nicolas Medtner, His Life and Music*. London, UK: Routledge. <https://doi.org/10.4324/9781315090528>.
- Martynovich K. A. (2011). Nonlinear dynamic picture of the world: ontological meanings and methodological possibilities. Abstract a doctor of philosophy dissertation. Saratov, Russia: Saratov State University named after N.G. Chernyshevsky (in Russian).
- MasterClass. (August 31, 2022). Baroque art and architecture: 4 characteristics of the period. *MasterClass Articles*. Retrieved on February 1, 2023, from <https://www.masterclass.com/articles/baroque-art-style-explained>.
- Matryoshkas. (2023). All about Semenov nesting dolls Retrieved on January 20, 2023, from <https://vplate.ru/matreshka/semenovskie/> (in Russian).

- Marx, K. (1961). *Economic and Philosophic Manuscripts of 1844*. Moscow, Russia: Foreign Languages Publishing House.
- Marx, K. (1976). *Capital*, vol. 1. London, UK: Penguin Books.
- Matsypura, V. T., Snarskiy, A. A. and Grinchenko, V. T. (2010). *Introduction to Nonlinear Dynamics: Chaos and Fractals/Vvedenie v Nelineynuyu Dinamiku: Khaos i Fraktaly*. Moscow, Russia: Izdatelstvo LKI.
- Mayatskaya, I., Kashina, I., Gerlein, N. and Yazyev, B. (2021). Fractal geometry and design of modern structures. E3S Web of Conferences 281. Retrieved on June 20, 2023, from [https://www.e3s-conferences.org/articles/e3sconf/pdf/2021/57/e3sconf\\_catpid2021\\_02018.pdf](https://www.e3s-conferences.org/articles/e3sconf/pdf/2021/57/e3sconf_catpid2021_02018.pdf). <https://doi.org/10.1051/e3sconf/202128102018>.
- Mayatskaya, I., Yazyev, B., Yazyeva, S. and Kulinich, P. (2017). Building constructions: Architecture and nature. MATEC Web of Conferences 106. Retrieved on June 20, 2023, from [https://www.matec-conferences.org/articles/matecconf/pdf/2017/20/matecconf\\_spbw2017\\_01031.pdf](https://www.matec-conferences.org/articles/matecconf/pdf/2017/20/matecconf_spbw2017_01031.pdf). <https://doi.org/10.1051/matecconf/201710601031>.
- Mayorov V. V. and Timofeev E. A. (1999). A noncontradictory estimation of the manifold dimension and self-similar fractals. *HTML and MF* (10):1721-1729 (in Russian).
- McGill University School of Computer Science. (2007). Onion dome. *2007 Schools Wikipedia Selection*. Retrieved on October 6, 2022, from [https://www.cs.mcgill.ca/~rwest/wikispeedia/wpcd/wp/o/Onion\\_dome.htm](https://www.cs.mcgill.ca/~rwest/wikispeedia/wpcd/wp/o/Onion_dome.htm).
- McGill University Schools Selection. (2007). National anthem of Russia. Retrieved on July 7, 2023, from [https://www.cs.mcgill.ca/~rwest/wikispeedia/wpcd/wp/n/National\\_Anthem\\_of\\_Russia.htm](https://www.cs.mcgill.ca/~rwest/wikispeedia/wpcd/wp/n/National_Anthem_of_Russia.htm).
- Merriam Webster Dictionary. (2023). Folk song. Retrieved on February 23, 2023, from <https://www.merriam-webster.com/dictionary/folk%20song>.
- Merriam Webster Dictionary. (2023). Neo-Baroque. Retrieved on January 31, 2023, from <https://www.merriam-webster.com/dictionary/neobaroque>.
- Merriam Webster Dictionary. (2022). *mise-en-abyme*. Retrieved on November 9, 2022, from <https://www.merriam-webster.com/dictionary/mise%20en%20abyme>.
- Metodique. (2023). Biography of Alexander Yakovlevich Rosenbaum. Retrieved on February 27, 2023, from <http://rozenbaum.ru/biography> (in Russian).
- Meunierd. (2022). Latest illustrations, vectors & clipart by Meunierd. Retrieved on September 12, 2022, from <https://www.dreamstime.com/meunierd-latest-illustrations-vectors-clipart>
- Mikhina, E. and Paskevich, Y. (November 26, 2020). The last of the Vepsians. *The Russian Reader*. Retrieved on September 18, 2022, from <https://therussianreader.com/2020/12/14/veps/>
- Milner, J. (1996). *Kazimir Malevich and the Art of Geometry*. New Haven, CT: Yale University Press.
- Ministry of Culture of Russia. (2013-2022). Russian varnishes. *Publications in the Traditions Section*. Retrieved on November 11, 2022, from <https://www.culture.ru/materials/166475/russkie-laki> (in Russian).

- Mironov, A. N. (2022). Hey, ukhnem! Dubinushka. *The History of Songs*. Retrieved on August 08, 2023, from <https://proza.ru/2022/07/18/1441?ysclid=ll1y9hxaub837237860> (in Russian).
- Mitina, O. V. and Abraham, FG. D. (October 2003). The use of fractals for the study of the psychology of perception: Psychophysics and personality factors, a brief report. *International Journal of Modern Physics C* 14, 8. Retrieved on November 27, 2015, from <http://www.worldscientific.com/doi/abs/10.1142/S0129183103005182>. <https://doi.org/10.1142/S0129183103005182>.
- Mitlenko, S. (2018). The story of one song Coachman, don't drive horses. *Mirtesen: Life is a theater*. Retrieved on August 11, 2023, from <https://zhiznteatr.mirtesen.ru/blog/43612175488/Istoriya-odnoy-pesni.-YAmschik-ne-goniloshade?ysclid=ll66hcv1rm936210311> (in Russian).
- Moffett, K. M. (2017). *Forming and Centering: Foundational Aspects of Architectural Design*. Bingley, UK: Emerald Publishing Limited. <https://doi.org/10.1108/9781786358288>.
- Moiseeva, M. (2008). Archpriest Nikolai Chernyshev: There was a positive, life-affirming and bright Christian attitude in Solzhenitsyn. *Orthodoxy Ru*. Retrieved on August 20, 2023, from: <https://pravoslavie.ru/36924.html> (in Russian).
- Moiseevskaya N. (2019). Tverskaya painting. *Folk Art Crafts*. Retrieved on January 29, 2023, from <https://dzen.ru/a/Yyi6KxCgBCYLHU3> (in Russian).
- MoMA. (July 18—Oct 29, 2007). Lost vanguard: Soviet modernist architecture, 1922—32 photographs by Richard Pare. Retrieved on November 13, 2022, from <https://www.moma.org/calendar/exhibitions/47?locale=en>.
- Montana State University News. (2011). Beautiful math. *MSU Mountains & Minds*. Retrieved on November 8, 2022, from <https://www.montana.edu/news/mountainsandminds/article.html?id=10390>.
- Montblanc. (2023a). About Montblanc. Retrieved on June 17, 2023, from <https://www.montblanc.com/en-us/discover/company/about-us>.
- Montblanc. (2023b). Montblanc homage to Wassily Kandinsky Limited Edition of 3. *Airline International*. Retrieved on June 17, 2023, from <https://airlineintl.com/products/montblanc-homage-to-wassily-kandinsky-limited-edition-of-3>.
- Morozov A. D. (1999). *Introduction to the Theory of Fractals*. N. Novgorod, Russia: Publishing House of the Nizhny Novgorod University (in Russian).
- Morozov M. Yu. (2021). Fractality in the light of the three crises foundations of mathematics. *Problems of Ontological and Gnoseological Substantiation of Mathematical and Natural Sciences* (12):96-109 (in Russian).
- Museum of Modern Art History. (2012). Arkhitekton Gota (Gota arkhitekton). *Inventing Abstraction 1910-1925*. Retrieved on November 21, 2022, from <https://www.moma.org/interactives/exhibitions/2012/inventingabstraction/?work=212>.
- Music Metason. (2020). Artistinfo: Evgeny Belyaev. *music.metason.net*. Retrieved on February 23, 2023, from <https://music.metason.net/artistinfo?name=%D0%95%D0%B2%D0%B3%D0%B5%D0BD%D0%B8%D0%B9%20%D0%91%D0%B5%D0BB%D1%8F%D0%B5%D0%B2>.
- Nabokov, V. V. (2001). *The Gift: A Novel; Short Stories* / [O. Dark's comment]. Moscow, Russia: AST; Kharkiv: Folio (in Russian).

- Nabokov V.V. (1952). Scenes from the life of Siamese freaks. *Zvezda*, No. 4, 1999. Retrieved on September 24, 2023, from <https://magazines.gorky.media/zvezda/1999/4/pashalnyj-dozhd-rasskaz.html> (in Russian).
- Nabokov V. V. (1925). Easter rain. *Zvezda*, No. 4, 1999. Retrieved on September 04, 2023, from: <https://magazines.gorky.media/zvezda/1999/4/pashalnyj-dozhd-rasskaz.html> (in Russian).
- National Center for Supercomputing Applications (NCSA). (1993). Fractal. *The Fractal Microscope: Fractal Geometry* of the Education Group at the University of Illinois Urbana-Champaign. Retrieved on July 29, 2022, from <https://cybermax.tripod.com/Fgeom.htm>.
- National Endowment for the Arts. (2010). Philip Glass: Composer. Retrieved on March 14, 2023, from <https://www.arts.gov/honors/opera/philip-glass>.
- Neganov, V. A., Potapov, A. A. and Antipov, O. I. (2009). *Deterministic Chaos and Fractals in Discrete Nonlinear Systems/Determinirovannyi Khaos i Fraktaly v Diskretno-Nelineynykh Sistemakh*. Moscow, Russia: Radiotekhnika Publishers.
- Nelson, A. (2004). *Music for the Revolution: Musicians and Power in Early Soviet Russia*. University Park, PA: Pennsylvania State University Press.
- Nelson-King, P. (November 26, 2013). Alexei Stanchinsky's Euphonious Fractals. *Re-Composing*. Retrieved on March 18, 2023, from <http://re-composing.blogspot.com/2013/11/alexei-stanchinskys-euphonious-fractals.html>.
- Nepilova, H. (January 16, 2023). Russian folk songs: 10 of the best. *Classical Music: BBC Music Magazine*. Retrieved on February 23, 2023, from <https://www.classical-music.com/features/works/russian-folk-songs/>.
- Nestingdolls.com. (2022). The history of the Russian nesting doll. *Nesting Dolls*. Retrieved on November 6, 2022, from <https://nestingdolls.co/blogs/posts/history-nesting-dolls>.
- New World Encyclopedia. (May 9, 2020). Vladimir Nabokov. Retrieved on January 27, 2023, from [https://www.newworldencyclopedia.org/entry/Vladimir\\_Nabokov](https://www.newworldencyclopedia.org/entry/Vladimir_Nabokov).
- Nickson, C. (2023). Review of *Most Beautiful Folk Songs of Russia* by the Red Army Choir. *All Music*. Retrieved on February 24, 2023, from <https://www.allmusic.com/album/most-beautiful-folk-songs-of-russia-mw0000818292>.
- Nikandrov, P. (2023). Evolution tower. Retrieved on June 21, 2023. from <https://www.philippnikandrov.com/evolution-tower>.
- Nikolaeva E. V. (2013). On the typology of fractals in the theory of culture. *Bulletin of the Adygea State University*. Series 1: Regional Studies: philosophy, history, Sociology, law, political science, cultural studies 1(113):226–232 (in Russian). Retrieved on August 6, 2022, from <https://cyberleninka.ru/article/n/k-tipologii-fraktalov-v-teorii-kultury>.
- Nomadiks National House. (August 25, 2017). Types of Kazakh felt carpets. *Kazakh Workshop of National Handmade Rugs*. Retrieved on October 24, 2022, from <https://www.nomadiks.com/blogpost2/> (in Russian).
- Núñez, N. (1996). *Anthropocosmic Theatre*. Reading, UK: Harwood Academic Publishers.
- NUTCRACKER! Magical Christmas Ballet. (2022). History of nesting dolls & Matryoshka. *History of Nesting Dolls*. Retrieved on November 4, 2022, from <https://nutcracker.com/history-of-nesting-dolls>.

- Obolsunovo, I. (October 19, 2018). In memory of the Silver Age composer Alexei Stanchinsky. *Tilda*. Retrieved on March 15, 2023, from <https://fyodorbiryuchev.com/alexeistanchinsky>.
- Ollman, B. (1977). *Alienation: Marx's Conception of Man in Capitalist Society*. Cambridge, UK: Cambridge University Press. <https://doi.org/10.1017/CBO9780511611902>.
- Openwork Tower. (2022). Etudes: Mathematical etudes. Retrieved on October 20, 2022, from <https://etudes.ru/etudes/shukhov-tower/27/> (in Russian).
- O'Reilly, O. (2022). A visit to Russia: The golden spires of St. Petersburg. *Traveling Italy*. Retrieved on October 6, 2022, from <https://ornaoreilly.com/2016/09/07/a-visit-to-russia-the-golden-spires-of-st-petersburg/>.
- Orsa, L. (2023). Biography: Elena Borisova. Retrieved on March 3, 2023, from <https://composereleena.wordpress.com/biography/>.
- Osin, A. V., Smolskiy, S. M. and Shelukhin, O. I. (2008). *Self-Similarity and Fractals: Telecommunication Applications/Samopodobie i Fraktaly Telekomunikatsionnye Prilozheniya*. Moscow, Russia: Fizmatlit Publisher.
- Ostapchuk A. K. and Ovsyannikov V. E. (2009). *Application of Fractal Theory in Mathematical Modeling and Engineering*. Kurgan, Russia: Publishing House of Kurgan State University (in Russian).
- Ostwald, M. J. (August 6, 2010). The politics of fractal geometry in Russian paper architecture: *The Intelligent Market and the Cube of Infinity*. *Architectural Theory Review* 15(2):125-137. <https://doi.org/10.1080/13264826.2010.495447>.
- Ouellette, J. (July 8, 2021). What fractals, Fibonacci, and the golden ratio have to do with cauliflower. *ars Technica*. Retrieved on November 8, 2022, from <https://arstechnica.com/science/2021/07/what-fractals-fibonacci-and-the-golden-ratio-have-to-do-with-cauliflower/>.
- Our Street Is Wide. (2023). Russian folklore. Retrieved on August 05, 2023, from <https://rus.ruolden.ru/6965/ulitsa-ty-nasha-shirokaya-arhangel'skaya-gub/?ysclid=lkxvkjc25n994598102> (in Russian).
- Özakin, D. (May 9, 2022). Kokoshnik: A female headdress in the triangle of tradition, talisman, and gender roles. *Motif Akademi Halkbilimi Dergisi* 15(39):691-707. Retrieved on October 29, 2022, from <https://dergipark.org.tr/en/download/article-file/2597640>.
- Paglierani, S. (2020). Personality as the ten Russian nesting dolls. *The Emergence Alliance, Inc*. Retrieved on November 8, 2022, from <https://theemergencesite.com/Therapy/TalkTherapyAdvice-06-ShouldChangesLast.html>.
- Peak, A. I. and Prokhorov, B. B. (1988). Big problems of small nations. *Communist* 16 (in Russian).
- Pennsylvania Historical & Museum Commission. (2022). Eastern Orthodox. *Pennsylvania Architectural Field Guide*. Retrieved on October 6, 2022, from <http://www.phmc.state.pa.us/portal/communities/architecture/types/eastern-orthodox.html>.
- Peptenatu, D., Andronache, I., Ahammer, H., Taylor, R., Liritzis, I., Radulovi, M., Ciobanum, B., Burcea, M., Perc, M., Pham, T. D., Tomić, B. M., Cîrstea, C. J., Lemeni, A. N., Gruia, A. K., Grecu, A., Marin, M. and Jelinek, H. F. (June 24, 2022). Kolmogorov compression complexity may differentiate different schools of Orthodox iconography. *Scientific Reports* 12(10743). Retrieved on

- April 21, 2023, from <https://www.nature.com/articles/s41598-022-12826-w>.  
<https://doi.org/10.1038/s41598-022-12826-w>.
- Pereira, L. (November 17, 2015). What is abstract art? Meaning and definition of art informel. *Wide Walls*. Retrieved on March 7, 2023, from <https://www.wide-walls.ch/magazine/what-is-abstract-art-informel>
- Petrukhina, E. V. (2017). Temporal models of the expansion of the present in the grammatical system and literary text (based on the material of “Krokhotky” by A. I. Solzhenitsyn). *Proceedings of the Ural Federal University Series 2: Humanities* 19(4, 169):176-193. <https://doi.org/10.15826/izv2.2017.19.4.072>.
- Pickover, C. (2022). Fractal advice and experts. *Pickover Books*. Retrieved on November 8, 2022, from <https://sprott.physics.wisc.edu/pickover/fractala.html>.
- Plakhova, T. (2023a). Welcome to complexity graphics. *Complexity Graphics*. Retrieved on March 6, 2023, from [https://www.complexitygraphics.com/\\_-ABOUT\\_-CONTACT](https://www.complexitygraphics.com/_-ABOUT_-CONTACT).
- Plakhova, T. (2023b). Complexity graphics. Retrieved on March 6, 2023, from <https://www.complexitygraphics.com/CHAOS-AND-STRUCTURE>.
- Plakhova, T. (2012). Energy graphics. *Website: GREENWORD.RU*. Retrieved on July 17, 2023, from <https://greenword.ru/2012/08/complexity-graphics.html> (in Russian).
- Plakhova, T. (2010-2011). Music is math. *Complexity Graphics*. Retrieved on July 17, 2023, from <https://www.complexitygraphics.com/MUSIC-IS-MATH> (in Russian).
- Poelzer, G. and Fondahl, G. (2010). Indigenous peoples of the Russian North. *Cultural Survival*. Retrieved on May 30, 2023, from <https://www.cultural-survival.org/publications/cultural-survival-quarterly/russia/indigenous-peoples-russian-north>.
- Polyudova, E. (2016). *Soviet War Songs in the Context of Russian Culture*. Newcastle upon Tyne, UK: Cambridge Scholars Publishing.
- Popova, E. (2006). Time as a category of traditional Besermian. *Mäetagused. Hüperajakiri* 32:27-56. Retrieved on September 17, 2022, from <https://www.ceeol.com/search/article-detail?id=31120>.
- Popova, M. (2023). The music of Philip Glass, visualized in fractals. *The Marginalian*. Retrieved on March 13, 2023, from <https://www.themarginalian.org/2011/05/16/tatiana-plakhova/>.
- Popova, M. (2014). 33 books on how to live and a Russian nesting doll. *The Long Now Foundation*. Retrieved on November 8, 2022, from <https://medium.com/the-long-now-foundation/33-books-on-how-to-live-and-a-russian-nesting-doll-7e649b556b25>.
- Popova T. (1977). *Fundamentals of Russian Folk Music*. Moscow, Russia: Publishing House Music.
- Potapov, A. A. (November 2017a). Texture and deterministic chaos in new information technologies: Synergetic approaches, models and results. *Proceedings of the 2<sup>nd</sup> Institute of Electrical and Electronics Engineers International Conference on Circuits and Systems for Communications*, Moscow, Russia, June 30—July 2, 2004. Retrieved on June 29, 2023, from [https://www.researchgate.net/publication/321016976\\_Potapov\\_AA\\_Fractals\\_Texture\\_and\\_Deterministic\\_Chaos\\_in\\_New\\_Information\\_Technologies\\_Synergetic\\_Approaches\\_Models\\_and\\_](https://www.researchgate.net/publication/321016976_Potapov_AA_Fractals_Texture_and_Deterministic_Chaos_in_New_Information_Technologies_Synergetic_Approaches_Models_and_)

- Results\_Proc\_2nd\_IEEE\_Int\_Conf\_Circuits\_and\_Systems\_for\_Communications\_ICCSC\_-\_2004.
- Potapov, A. A. (November 2017b). New information radiophysical technologies fractal in radiolocation: Fractal and synergetic. *Proceedings of the 28<sup>th</sup> European Space Agency Antenna Workshop on Pace Antenna Systems and Technologies*, Noordwijk, The Netherlands, May 31—June 3, 2005). Retrieved on June 30, 2023, from [https://www.researchgate.net/publication/321017047\\_Potapov\\_AA\\_New\\_Information\\_Radiophysical\\_Technologies\\_Fractal\\_in\\_Radiolocation\\_Fractal\\_and\\_Synergetic\\_Proc\\_of\\_28th\\_ESA\\_Antenna\\_Workshop\\_on\\_pace\\_Antenna\\_Systems\\_and\\_Technologies\\_Noordwijk\\_The\\_Netherlan](https://www.researchgate.net/publication/321017047_Potapov_AA_New_Information_Radiophysical_Technologies_Fractal_in_Radiolocation_Fractal_and_Synergetic_Proc_of_28th_ESA_Antenna_Workshop_on_pace_Antenna_Systems_and_Technologies_Noordwijk_The_Netherlan).
- Potapov, A. A., Gil'mutdinov, A. K. and Ushakov, P. A. (November 28, 2008). Systems concept and components of fractal radio electronics: Part II. Synthesis methods and prospects for application. *Journal of Communication Technology and Electronics* 53(11): 1347–1394. Retrieved on June 28, 2023, from <https://link.springer.com/article/10.1134/S1064226908110016>. <https://doi.org/10.1134/S1064226908110016>.
- Powell, J. and Hepburn, C. (2001). Stanchinsky, Aleksey Vladimirovich, *Grove Music Online*. Retrieved on March 17, 2023, from [https://www.oxfordmusiconline.com/grovemusic/display/10.1093/gmo/9781561592630.001.0001/omo-9781561592630-e-0000026540?\\_start=1&pos=1&q=Stanchinsky&search=quick#firsthit](https://www.oxfordmusiconline.com/grovemusic/display/10.1093/gmo/9781561592630.001.0001/omo-9781561592630-e-0000026540?_start=1&pos=1&q=Stanchinsky&search=quick#firsthit). <https://doi.org/10.1093/gmo/9781561592630.article.26540>.
- Prabook. (2023). Andrey Bely. *The World Biographical Encyclopedia*. Retrieved on February 5, 2023, from <https://prabook.com/web/andrey.bely/3749458>.
- Prokhorov, V. (2002). *Russian Folk Songs: Musical Genres and History*. Lanham, MD: Scarecrow Press, Inc.
- Prokhorova, D. (June 8, 2019). Sofia of Novgorod: What you need to know about the oldest Orthodox cathedral in Russia. *Magazine Thomas*. Retrieved on December 02, 2022, from <https://foma.ru/sofiya-novgorodskaya-chto-nuzhno-znat-o-samom-drevnem-pravoslavnom-sobore-rossii.html> (in Russian).
- PSherman Art. (May 14, 2022). Drift through the Arkhitekton Tunnel where digits are born. *YouTube*. Retrieved on November 23, 2022, from <https://www.youtube.com/watch?v=WemLG35tVTo>.
- Rastegar, A. (January 9, 2014). Self-similarity in geometry, algebra and arithmetic. *ResearchGate*. Retrieved on August 9, 2022, from [https://www.researchgate.net/publication/233730551\\_Self-Similarity\\_in\\_Geometry\\_Algebra\\_and\\_Arithmetic](https://www.researchgate.net/publication/233730551_Self-Similarity_in_Geometry_Algebra_and_Arithmetic).
- Regenboog, F. (2021). Suprematist architecture: A plane drawing: Architectural history thesis on suprematist architecture by Kazimir Malevich. Retrieved on November 20, 2022, from <https://repository.tudelft.nl/islandora/object/uuid%3A98b47347-84d7-4721-ada9-783a6496d493>.
- Reka. (2022). Kazimir Malevich's Arkhitektons. *Seenthis*. Retrieved on November 20, 2022, from <https://seenthis.net/messages/557280>.
- Repin, I. E. (2020). They did not wait. *Tretyakov Gallery*. Retrieved on March 08, 2023, from <https://tretykovgallery-ticket.ru/wp-content/uploads/2022/09/small-14-1024x983.jpg> (in Russian).
- ResearchGate. (2008-2023). Tatiana V. Plakhova's research while affiliated with Lomonosov Moscow State University and other places. Retrieved on March 6,

- 2023, from <https://www.researchgate.net/scientific-contributions/Tatiana-V-Plakhova-2109179242>.
- Resource Area for Teaching. (2015). Mathematical Russian Matryoshka figures. *raft.net*. Retrieved on November 8, 2022, from <https://raft.net/wp-content/uploads/2019/03/757-Mathematical-Russian-Matryoshka-Figures.pdf>.
- Rhodes, L. (September 2, 2021). San Francisco punk photographer Ruby Ray. *Lethal Amounts*. Retrieved on November 14, 2022, from <https://www.lethalamounts.com/magazine-index/2021/9/2/meet-the-artist-san-francisco-punk-photographer-ruby-ray>.
- Roch, S. (2010). Spatial discretization of Cuntz Algebras. *Houston Journal of Mathematics* 36(4):1097-1132. Retrieved on August 9, 2022, from [https://www.math.uh.edu/~hjm/restricted/pdf36\(4\)/07roch.pdf](https://www.math.uh.edu/~hjm/restricted/pdf36(4)/07roch.pdf).
- Romero, A. (January 22, 2017). Interview with Uliana Shulepina of Russian Group Ochelie Soroki. *World Music Central* Retrieved on March 3, 2023, from <https://worldmusiccentral.org/2017/01/22/interview-with-uliana-shulepina-of-russian-group-ochelie-soroki/>.
- Rozhin, A. (2004). Historical surrealism. *The Tretyakov Gallery Magazine* 4(5). Retrieved on November 13, 2022, from <https://www.tretyakovgallerymagazine.com/articles/4-2004-05/historical-surrealism>.
- Rozov N. H. (2007). The course of a secondary school mathematics: Today and the day after tomorrow. *Tasks in Teaching Mathematics: Theory, Experience, Innovations*. Proceedings of the All-Russian scientific and practical conference dedicated to the 115<sup>th</sup> anniversary of chl.-cor. APN USSR P. A. Laricheva. Vologda, Russia: Rus, 6-12 (in Russian).
- Rus & Sov. (2022). Lyubov Popova, composition with figures (1914-1915) painting poster. Retrieved on November 15, 2022, from <https://rusandsov.com/products/lyubov-popova-composition-with-figures-1914-1915-painting-poster>.
- Ruslania. (2023). Krokhotki Крохотки. *Ruslania Books Oy*. Retrieved on February 15, 2023, from <https://ruslania.com/en/books/1464662-krokhotki/> (in Russian).
- Russia Clothing. (2005-2023) Popular Russian folk songs. *RusClothing.com*. Retrieved on February 24, 2023, from <https://www.rusclothing.com/blog/popular-rssuain-folk-songs/>.
- Russian American Company. (2020). The eggs of Fabergé. *Russian Collections*. Retrieved on October 22, 2022, from <https://www.russianamericancompany.com/faberge-eggs/>.
- Russian Culture. (2019). Kika Novgorodskaya Retrieved on January 04, 2023, from <https://ok.ru/group53118717001969/topic/70936299899889> (in Russian).
- Russian Dolls. (April 27, 2021). Matryoshka—Symbol of Russian beauty. *The Russian Treasures*. Retrieved on November 10, 2022, from <https://therussiantreasures.wordpress.com/2021/04/27/matryoshka-symbol-of-russian-beauty/>.
- Russian Ethnographic Museum. (2022). Headdress horns. 8762-3206. Retrieved on January 06, 2023, from <https://collection.ethnomuseum.ru/entity/OBJECT/128720?query=головной%20убор%20костюм%20головные%20уборы&index=43> (in Russian).
- Russian Folk Songs. (1943). The editor-compiler is Professor E. V. Gippius. *Art*. Leningrad, Russia (in Russian).

- Russian Folk Songs. (1936) Comp. A. G. Novikov. Political department of the Red Army. Collection 2. Moscow; Leningrad. Retrieved on August 10, 2023, from <https://ale07.ru/music/notes/song/npr/np.htm?ysclid=ll4w388wu1877075314> (in Russian).
- Russian Historical Library. (2023). Solzhenitsyn: Life and work. Retrieved on February 15, 2023, from <http://rushist.com/index.php/russia/3680-solzhenitsyn-aleksandr-isaevich-biografiya-i-tvorchestvo> (in Russian).
- Russian Information Network. (2022). The Besermians. *Russia The Great*. Retrieved on September 17, 2022, from [https://russia.rin.ru/guides\\_e/4980.html](https://russia.rin.ru/guides_e/4980.html).
- Russian Spirit. (2023). Petrovsky travelling palace. Retrieved on June 23, 2023, from <https://ruspirit.ru/en/content/petrovsky-travelling-palace>.
- Russian State Library. (2022). How did the skullcap become a symbol of Central Asia? Retrieved on October 21, 2022, from <https://www.rsl.ru/ru/materialy-inovostej/kak-tyubetejka-stala-simvolom-czentralnoj-azii> (in Russian).
- RussiaTrek.org. (2022). North Caucasian Federal District, Russia. *Welcome to Russia*. Retrieved on September 11, 2022, from <https://russiatrek.org/north-caucasus-district>.
- Ruzieva, M. Y. (2022). Symbolism of myth, symbol and color. *Annals of Forest Research* 65(1):2719-2722. Retrieved on February 28, 2023, from <https://www.e-afr.org/login/pdf/193.pdf>.
- Saatchi Art. (2022). No birds on other planets: Fractal generative landscape. Retrieved on November 14, 2022, from <https://www.saatchiart.com/art/Mixed-Media-No-birds-on-other-planets-Fractal-generative-landscape-Limited-Edition-of-3/1694844/8122172/view>.
- Sabah, D. (May 19, 2017). CNN Mistakenly Calls Iconic Russian Onion Domes 'Minarets.' *Global Research*. Retrieved on October 9, 2022, from <https://www.globalresearch.ca/cnn-mistakenly-calls-iconic-russian-onion-domes-minarets/5591989>.
- Salman, S. (October 23, 2015). Grand Duchess Elisabeth Feodorovna's emerald tiara. *The Royal Watcher*. Retrieved on November 1, 2022, from <https://royalwatcherblog.com/2017/03/12/yugoslavian-emerald-tiara/>.
- Saint-Petersburg.Com. (2021-2022). Catherine Palace. Retrieved on October 12, 2022, from <http://www.saint-petersburg.com/pushkin/catherine-palace/>.
- Salman, S. (February 8, 2022). Grand Duchess Hilda's diamond tiara. *The Royal Watcher*. Retrieved on November 1, 2022, from <https://royalwatcherblog.com/2022/02/08/grand-duchess-hildas-diamond-tiara/>.
- Salonlamp. (2020). Koryak language: Languages of the peoples of Siberia. Retrieved on September 14, 2022, from <https://salonlamp.ru/en/koryakskii-yazyk-yazyki-narodov-sibiri-yazyki-i-kultury-koryakskii-yazyk.html>.
- Sapozhnikova, M. (November 17, 2017). The charming tradition of Fabergé egg pendant necklaces. *Sotheby's*. Retrieved on October 22, 2022, from <https://www.sothebys.com/en/articles/the-charming-tradition-of-faberge-egg-pendant-necklaces>.
- Sasha, C. (2018). Drawing with information and revived dreams: what will be the art of the future. Retrieved on July 17, 2023, from <https://snob.ru/entry/168951/> (in Russian).

- Saunders, E. (2023). Complexity graphics. *Art & Science Journal*. Retrieved on March 5, 2023, from <https://www.artandsciencejournal.com/post/32462379763/complexity-graphics-tatiana-plakhova-also-known>.
- Savela, M. (September 19, 2014). Viaducity. *Tumblr*. Retrieved on January 20, 2023, from <https://mikasavela.tumblr.com/post/97876277429/viaducity-1987-by-architects-i-galimova-and-m>.
- Schaaf, W. L. (2023). Geometric and topological recreations: Optical illusions. *Encyclopædia Britannica*. Retrieved on June 17, 2023, from <https://www.britannica.com/topic/number-game/Geometric-and-topological-recreations#ref396163>.
- Schemes and Stencils for Raster Painting. (2015). Dot painting. *Tartd.ru*. Retrieved on November 10, 2022, from <https://tairtd.ru/blog/Skhemy-dlya-tochechnoy-rospisi/> (in Russian).
- Scholes, P. (1977). Folk song. *The Oxford Companion to Music*. Oxford, UK: Oxford University Press.
- Schrödinger, E. (1944). *What is Life?: With Mind and Matter and Autobiographical Sketches*. Cambridge: Cambridge University Press.
- SciJinks. (2023). What I the polar vortex? *It's All about Weather*. Retrieved on July 7, 2023, from <https://scijinks.gov/polar-vortex/>.
- Sea Gourmet. (2022). Kamchatka crab. Retrieved on October 20, 2022, from [https://xn---8sbiwelejcbufh7a.xn--p1ai/uploads/posts/2022-03/1647433608\\_xewzd7g8lovkai9u.jpg](https://xn---8sbiwelejcbufh7a.xn--p1ai/uploads/posts/2022-03/1647433608_xewzd7g8lovkai9u.jpg) (in Russian).
- Sealey, M. (2018). Alexei Vladimirovich Stanchinsky: Piano works. *Classical Net*. Retrieved on March 19, 2023, from <http://www.classical.net/music/recs/reviews/p/prf17003a.php>.
- SearchWorks Catalog. (2023). Stanford libraries. Retrieved on February 10, 2023, from [https://searchworks.stanford.edu/catalog?q=%22%22Solzhenit%CD%A1syn%2C+Aleksandr+Isaevich%2C+1918-2008%22%22&search\\_field=search\\_author](https://searchworks.stanford.edu/catalog?q=%22%22Solzhenit%CD%A1syn%2C+Aleksandr+Isaevich%2C+1918-2008%22%22&search_field=search_author).
- Sekovanov, V. S. (2005). *Methodical System of a University Student Creativity Formation in the Process of Teaching Fractal Geometry*. Kostroma, Russia: KSU named after N. A. Nekrasov (in Russian).
- Semenova, A. (2022a). Kety. Retrieved on September 19, 2022, from <https://travelask.ru/articles/kety-severnye-indeytsy-spustivshiesya-so-zvezd> (in Russian).
- Semenova, A. (2022b). Koryaki: brave whale hunters. Retrieved on September 20, 2022, from <https://travelask.ru/articles/koryaki-hrabrye-ohotniki-na-kitov> (in Russian).
- Semenova, A. (2022c). Kumandinty: Swan origin of Altai children. Retrieved on September 20, 2022, from <https://travelask.ru/articles/kumandinty-lebedinoe-proishozhdenie-detey-altaya> (in Russian).
- Semenova, A. (2022d). Mansy: Mysterious and authentic inhabitants of the north. Retrieved on September 20, 2022, from <https://travelask.ru/articles/mansi-zagadochnye-i-autentichnye-zhiteli-severa> (in Russian).
- Semenova, A. (2022e). Negidals: craving for beauty in harsh conditions. Retrieved on September 21, 2022, from <https://travelask.ru/articles/negidaltsy-tyaga-k-prekrasnomu-v-surovyh-usloviyah> (in Russian).

- Semenova, A. (2022f). Nivkhs are descendants of the first people. Retrieved on September 21, 2022, from <https://travelask.ru/articles/nivhi-potomki-pervyh-lyudey> (in Russian).
- Semenova, A. (2022g). Orochi: Tiger children from the shores of the Sea of Japan. Retrieved on September 22, 2022, from <https://travelask.ru/articles/orochi-deti-tigra-s-beregov-yaponskogo-morya> (in Russian).
- Semenova, A. (2022h). The Saamy are the mysterious inhabitants of Lapland. Retrieved on September 22, 2022, from <https://travelask.ru/articles/saamy-tainstvennye-zhiteli-laplandii> (in Russian).
- Semenova, A. (2022i). The Soyoty are the sacred mountains inhabitants. Retrieved on September 22, 2022, from <https://travelask.ru/articles/soyoty-zhiteli-svyaschennyh-gor> (in Russian).
- Semenova, A. (2022j). Telengity: The life of the Altai steppes guardians. Retrieved on September 23, 2022, from <https://travelask.ru/articles/telengity-zhizn-hraniteley-altayskih-stepey> (in Russian).
- Semenova, A. (2022k). Teauty: Shamanism, the power of color and giant dumplings. Retrieved on September 23, 2022, from <https://travelask.ru/articles/teauty-shamanizm-sila-tsveta-i-gigantskie-pelmeni> (in Russian).
- Semenova, A. (2022l). Tubalary: Children of the Altai Mountains taiga. Retrieved on September 23, 2022, from <https://travelask.ru/articles/tubalary-deti-taygigornogo-altaya> (in Russian).
- Semenova, A. (2022m). Todzhintsy: The Sayan Mountains reindeer herders. Retrieved on September 23, 2022, from <https://travelask.ru/articles/todzhintsy-olenevody-sayanskih-gor> (in Russian).
- Semenova, A. (2022n). The Udegeytsy people are forest people or Ussuri tiger descendants. Retrieved on September 25, 2022, from <https://travelask.ru/articles/udegeytsy-lesnye-lyudi-ili-potomki-ussuriyskogo-tigra> (in Russian).
- Semenova, A. (2022o). Chulymtsy: There is no word for “sin” in their vocabulary. Retrieved on September 26, 2022, from <https://travelask.ru/articles/chulymtsy-v-ih-leksikone-net-slova-greh> (in Russian).
- Semenova, A. (2022p). Shapsugi are the keepers of the Black Sea region. Retrieved on September 26, 2022, from <https://travelask.ru/articles/shapsugi-hraniteli-prichernomorya> (in Russian).
- Semenova, A. (2022q). Evenki (Tungus): Aristocrats of Siberia under the Polar Star. Retrieved on September 27, 2022, from <https://travelask.ru/articles/evenki-tungusy-aristokraty-sibiri-pod-polyarnoy-zvezdoy> (in Russian).
- Semenova, A. (2022r). Yukagiry (vadu, alai): mighty “people of permafrost.” Retrieved on September 28, 2022, from <https://travelask.ru/articles/yukagiry-vadu-alai-moguchie-lyudi-merzloty> (in Russian).
- Senechal, D. (June 11, 2018). Bely, Andrei (originally in the *Encyclopedia of Russian History*). *Encyclopedia.com*. Retrieved on February 5, 2023, from <https://www.encyclopedia.com/people/literature-and-arts/russian-and-eastern-european-literature-biographies/boris-nikolayevich-bugayev>.
- Senior Porcelain. (2022). Dulevo tulip golden walnut tea set for six persons. Retrieved on November 12, 2022, from <http://www.senior-farfor.ru/product/chaynyy-serviz-dulevo-tyulpan-zolotoy-orekh-na-6->.

- Sergievsy, S. (November 26, 1999). Larionov, music, song. *Newspaper Culture*. Retrieved on February 23, 2023, from [https://www.ng.ru/culture/1999-11-26/7\\_stamp.html](https://www.ng.ru/culture/1999-11-26/7_stamp.html).
- Shasha, L. (May 2013). Simulation of the radar ground clutter based on DEM. *International Journal of Computer Science Issues* 10(3)(1):97-102. Retrieved on August 8, 2022, from <https://ijcsi.org/papers/IJCSI-10-3-1-97-102.pdf>.
- Shaytura, S. V., Kozhaev, Y. P., Ordov, K. V., Vintova, T. A., Minitaeva, A. M. and Feoktistova, V. M. (2018). Geoinformation services in a spatial economy. *International Journal of Civil Engineering and Technology* 9(2):829-841. Retrieved on July 2, 2023, from [https://iaeme.com/MasterAdmin/Journal\\_uploads/IJCIET/VOLUME\\_9\\_ISSUE\\_2/IJCIET\\_09\\_02\\_080.pdf](https://iaeme.com/MasterAdmin/Journal_uploads/IJCIET/VOLUME_9_ISSUE_2/IJCIET_09_02_080.pdf).
- Shcherbatykh, S. V. and Polyakova, A. Y. (2020). Modern educational technologies in a fractal approach implementation in the math lessons (on the example of learning a probability-statistical line elements). *International Journal of Criminology and Sociology* 9:1709-1723. Retrieved on June 25, 2023, from <https://www.lifescienceglobal.com/pms/index.php/ijcs/article/view/7890/4156>.
- Shelukhin, O. I. (2003). *Fractal Processes in Telecommunications/Fraktalnye Protsessy v Telekommunikatsiyakh*. Moscow, Russia: Radiotekhnika Publishers.
- Shevelev I. Sh., Marutaev M. A. and Shmelev I. P. (1990). *Golden Section: Three Views on the Nature of Harmony*. Moscow, Russia: Stroyizdat (in Russian).
- Shirinkina, M. A. (2018). Typology of thematic nominations in business correspondence. *Socio- and Psycholinguistic Studies* 6. Retrieved on August 25, 2023, from: <https://cyberleninka.ru/article/n/tipologiya-tematicheskikh-nominatsiy-v-delovoy-perepiske> (in Russian).
- Shishlo B. (1998). Unfinished mission. *Ilin* No.2-3. Retrieved on June 26, 2023, from <http://ilin-yakutsk.narod.ru/1998-2/30.htm> (in Russian).
- Shmoon. (2023). Elena Ivanovna (née Rukavishnikova) in *Speak, Memory*. Retrieved on January 27, 2023, from <https://www.shmoop.com/study-guides/literature/speak-memory/elena-ivanova>.
- Shuy, R. W. (1982). Topic as the unit of analysis in a criminal law case. In Tannen, D. (ed.). *Analyzing Discourse: Text and Talk*. Washington, DC: Georgetown University Press.
- Smirnov B. M. (1991). *Physics of Fractal Clusters*. Moscow, Russia: Nauka (in Russian).
- Smirnov, E., Uvarov, A. and Smirnov, N. (2018). Technology of synergy revealing in teaching of mathematics. *Section on Education and Educational Research*. Retrieved on June 25, 2023, from <https://files.eric.ed.gov/fulltext/ED603229.pdf>. <https://doi.org/10.32008/NORDSCI2018/B1/V1/20>.
- Smirnov-Sadovsky, D. (July 2, 2012). Symbolism in Shostakovich's music. *Private Archives*. Retrieved on February 28, 2023, from [https://wikilivres.ru/Symbolism\\_in\\_Shostakovich%E2%80%99s\\_Music](https://wikilivres.ru/Symbolism_in_Shostakovich%E2%80%99s_Music).
- Smith, A. L. (2018). Folk music. Culled from the *Encyclopedia of Russian History* by Cengage. Retrieved on February 28, 2023, from <https://www.encyclopedia.com/literature-and-arts/performing-arts/music-popular-and-jazz/folk-music>.

- Smolgazeta.RU. (2018). The mysterious composer of the “Silver Age.” *Culture*. Retrieved on March 17, 2023, from <https://smolgazeta.ru/culture/51098-zagadochnyy-kompozitor-serebryanogo-veka.html> (in Russian).
- Sofronov, F. (2023). Glinka & Stanchinsky: Two geniuses of Russian piano music (1CD) (translated from Russian by A. Rovner). *Firma Melodiya*. Retrieved on March 19, 2023, from <https://melody.su/en/catalog/classic/574/>.
- Sokolina, A. (2001). Alternative identities: Conceptual transformations in Soviet and Post-Soviet architecture. *ARTMargins*. Retrieved on January 19, 2023, from <https://artmargins.com/alternative-identities-conceptual-transformations-in-soviet-and-post-soviet-architecture/>.
- Solzhenitsyn, A. I. (1970). Alexandr Solzhenitsyn Biographical. *The Nobel Prize*. Retrieved on February 11, 2013, from <https://www.nobelprize.org/prizes/literature/1970/solzhenitsyn/biographical/>.
- Solzhenitsyn, A. I. (1989 ed.). *August 1914: The Red Wheel* (translated by H. T. Willets). New York, NY: The Noonday Press, Farrar, Straus and Giroux.
- Solzhenitsyn, A. I. (1992). *One Day in the Life of Ivan Desinovich* (Harry Taylor Willetts, translator). New York, NY: Noonday Press.
- Solzhenitsyn, A. I. (1997 ed.). *The Gulag Archipelago, 1918-56: An Experiment in Literary Investigation* (translated by Thomas P. Whitney and Harry Willets). New York, NY: Basic Books. Retrieved on February 17, 2023, from <https://yes-pdf.com/electronic-book/525>.
- Solzhenitsyn, A. I. (2018). *Крoхoмкu* (Latinized: *Krokhotky*). Moscow, Russia: Slovo/Slovo.
- Sorokina, A. (March 26, 2021). How Russian Aleuts live at the edge of the world. *Russia Beyond*, Aleutskaya Zvezda (Aleutian Star) newspaper. Retrieved on September 13, 2022, from <https://www.rbth.com/lifestyle/333587-russian-aleuts-nikolskoye>.
- Soto, J. A. (April 20, 2018). On alienated labor and why it problematic. *Arete Position Paper*. Retrieved on October 1, 2022, from <https://static1.square-space.com/static/594a1b1ce6f2e1b67d763d70/t/5aca51c82b6a289d08b3af52/1523208649874/PP18++On+Alienated+Labour+and+Why+it+is+Problematic.pdf>.
- Soulier, L. (2014). Laetitia Soulier: The fractal architectures. *Art New England*. Retrieved on November 8, 2022, from [https://artnewengland.com/ed\\_review/laetitia-soulier-the-fractal-architectures/](https://artnewengland.com/ed_review/laetitia-soulier-the-fractal-architectures/).
- South Ural. (2014). The Matryoshka. *Ural Tours*. Retrieved on November 8, 2022, from <http://toptours.info/w/r45/>.
- Spatial Agency. (2022). Paper architects. *Spatial Agency Paper Architects*. Retrieved on November 26, 2022, from <https://www.spatialagency.net/database/paper-architects>.
- St. Sophia Cathedral in Novgorod (2022). Architect, description, year of creation, history of the temple. Retrieved on December 04, 2022, from <https://touristam.com/sobor-svyatoy-sofii.html> (in Russian).
- StadiumDB.com. (2023). Rostov arena stadium. Retrieved on June 23, 2023, from [http://stadiumdb.com/stadiums/rus/rostov\\_arena](http://stadiumdb.com/stadiums/rus/rostov_arena).
- Starke, G. (2022). What’s in a name: Architecture. *INNOQ Newsletter*. Retrieved on November 15, 2022, from <https://www.innoq.com/en/blog/whats-in-a-name-architecture/>.

- Stavitsky, I. (April 7, 2014). *Oncorhynchus gorbuscha*. *Bēhance*. Retrieved on September 22, 2022 from <https://www.behance.net/gallery/15908371/Oncorhynchus-gorbuscha>
- Stewart, J. and Margherita Cole, M. (March 1, 2022). Unraveling the mystery of avant-garde art. *My Modern Met*. Retrieved on November 11, 2022, from <https://mymodernmet.com/avant-garde-art-definition/>.
- Strategy Lab. (2022). Pink. *Pacific Salmon Foundation* Retrieved on September 22, 2022, from <https://psf.ca/info/pink/>.
- Strawson, P. F. (1952). *Introduction to Logical Theory*. London, UK: Methuen.
- Sucharitha, B. and Ather, S. (June 2019). Hyper spectral image compression using fractal compression with arithmetic and Huffman coding. *Journal of Emerging Technologies and Innovative Research* 6(6):90-95. Retrieved on August 8, 2022, from <https://www.jetir.org/papers/JETIRDC06016.pdf>.
- Svendsen, G. L. H., Brandt, U. S. and Svendsen, G. T. (November 14, 2022). The survival game: Impression management and strategies of survival under extreme conditions in a Soviet Gulag prison camp. *Theory and Society*. Retrieved on February 17, 2023, from [https://www.researchgate.net/publication/365372418\\_The\\_survival\\_game\\_Impression\\_management\\_and\\_strategies\\_of\\_survival\\_under\\_extreme\\_conditions\\_in\\_a\\_Soviet\\_Gulag\\_prison\\_camp](https://www.researchgate.net/publication/365372418_The_survival_game_Impression_management_and_strategies_of_survival_under_extreme_conditions_in_a_Soviet_Gulag_prison_camp). <https://doi.org/10.1007/s11186-022-09502-3>.
- Tarasenko, V. V. (2009a). *Fractal Semiotics, "Blind Spots," and the Vicissitudes of Recognition/Fraktalnaya Semiotika, "Slepye Pyatna," Peripetii i Uznvaniya*. Moscow, Russia: Knizhnyy dom "LIBROKOM."
- Tarasenko, V. V. (2009b). *Fractal Logic/Fraktalnaya Logika*. Moscow, Russia: Knizhnyy dom LIBROKOM.
- Tate. (2022). Avant-garde. *Art and Artists*. Retrieved on November 11, 2022, from <https://www.tate.org.uk/art/art-terms/a/avant-garde>.
- Tea Collection. (2022). A history of nesting dolls. *tea*. Retrieved on November 6, 2022, from <https://blog.teacollection.com/history-of-nesting-dolls>.
- Tempest, R. (2019). Overwriting chaos: Aleksandr Solzhenitsyn's fictive worlds. Retrieved on February 10, 2023, from <https://dokumen.pub/overwriting-chaos-aleksandr-solzhenitsyns-fictive-worlds-1644690136-9781644690130.html>. <https://doi.org/10.2307/j.ctv1zjg752>.
- Testov V. A. (2019). Beauty in mathematical education: synergetic worldview. *Education and Science* 21(2):9-26 (in Russian). <https://doi.org/10.17853/1994-5639-2019-2-9-26>.
- Thabede, N. (2019/2020). AFL2603 assignment 20. *Studocu*. Retrieved on February 23, 2023, from <https://www.studocu.com/en-za/document/university-of-south-africa/african-language/afl2603-assignment-20/9821803>.
- The Aleksandr Solzhenitsyn Center. (2023). Biography. Retrieved on February 11, 2023, from <https://www.solzhenitsyncenter.org/his-life-overview/biography>.
- The Dallas Opera. (2020). Designing the golden cockerel. Retrieved on March 13, 2023, from <https://dallasopera.org/designing-the-golden-cockerel/>.
- The Disappearing Peoples of Russia. (2022). Izhora. Retrieved on September 19, 2022, from <https://www.culture.ru/materials/50951/ischezayushie-narody-rossii-izhory> (in Russian).

- The Editors of the Encyclopædia Britannica. (2023). Polar region geography. *Encyclopædia Britannica*. Retrieved on July 7, 2023, from <https://www.britannica.com/science/polar-region>.
- The Editors of Encyclopaedia Britannica. (2022). Ivan Andreyevich Krylov: Russian author. *Britannica*. Retrieved on September 23, 2022, from <https://www.britannica.com/biography/Ivan-Andreyevich-Krylov>.
- The Editors of Encyclopaedia Britannica. (2022). Fabergé egg. *Britannica*. Retrieved on October 12, 2022, from <https://www.britannica.com/art/Faberge-egg>.
- The Editors of Encyclopaedia Britannica. (November 12, 2021). Kazimir Malevich: Avant-garde painter. *Encyclopaedia Britannica*. Retrieved on November 18, 2022, from <https://www.britannica.com/biography/Kazimir-Malevich>.
- The Editors of *Military Review*. (September 21, 2021). A. I. Solzhenitsyn. Inarticulate graphomaniac with a “speaking” surname. *Military Review*. Retrieved on February 17, 2023, from <https://en.topwar.ru/187201-a-i-solzhenitsyn-kosnojazychnyj-grafoman-s-govorjaschej-familiej.html>.
- The Great Peterhof Court Temple of the Imperial Palace. (2017). Peterhof court temple. Retrieved on November 29, 2022, from <https://a-121.ru/pridvornyj-xram-bolshogo-petergofskogo-imperatorskogo-dvorca/> (in Russian).
- The Great Soviet Encyclopedia. (1979). Andrei Belyi. Reproduced by The Gale Group (2010). Retrieved on January 22, 2023, from <https://encyclopedia2.thefreedictionary.com/Andrei+Belyi>
- The Imperial Porcelain St. Petersburg. (2022). History of the manufactory. Retrieved on October 4, 2022, from <https://ipm-jsc.com/about-ipm/history-of-the-manufactory/the-period-before-and-during-the-second-world-war/>.
- The Jewish Museum of New York. (September 14, 2018—January 6, 2019). Chagall, Lissitzky, Malevich: The Russian avant-garde in Vitebsk, 1918-1922. Retrieved on November 22, 2022, from [https://s3.amazonaws.com/tjmassets/press\\_releases/Chagall\\_Lissitzky\\_Malevich\\_wall\\_texts\\_and\\_object\\_labels.pdf](https://s3.amazonaws.com/tjmassets/press_releases/Chagall_Lissitzky_Malevich_wall_texts_and_object_labels.pdf).
- The New Elastic Infinite. (April 17, 2015). Contemporary Russian psychedelia. *Global Psychedelia*. Retrieved on March 3, 2023, from <https://globalpsychedelia.com/2015/04/17/contemporary-russia-psychedelia/>.
- The People of Itelmen, Itelmen Traditions, Religion, Language. (2022). Retrieved on September 19, 2022, from <https://nazaccent.ru/nations/itelmens/> (in Russian).
- The Open College of Arts. (July 26, 2021). Thinking about making and physical objects. *Explore #WeAreOCA*. Retrieved on November 20, 2022, from <https://www.oca.ac.uk/weareoca/interior-design/thinking-about-making-and-physical-objects/?cn-reloaded=1>.
- The Russian Academy of Sciences—RAS. (2018). Works by Solzhenitsyn. *Journal of Literary History and Theory Contents* No. 43 (special issues dedicated to the 100<sup>th</sup> anniversary of the birth of Alexander Isaevich Solzhenitsyn by the Institute of Scientific Information, Social Sciences, Historical Department, Philological Sciences, and Section of Language and Literature. Retrieved on February 16, 2023, from [https://litzhur.ru/files/2018\\_literaturovedcheskii\\_zhurnal\\_43.pdf](https://litzhur.ru/files/2018_literaturovedcheskii_zhurnal_43.pdf) (in Russian).
- Tiara Mania. (October 23, 2015). Grand Duchess Elizabeth Feodorovna of Russia's emerald Kokoshnik. *The Tiara Encyclopedia*. Retrieved on November 1, 2022, from <https://www.tiara-mania.com/2015/10/emerald-diamond-kokoshnik.html>.

- Timofeeva, E. (1998). *Painter 5 Fractal Design/Izuchenie na Primerakh* + CD. Moscow, Russia: Nachalo Veka Publishers.
- Timofeeva, E. A. (1999). *Introduction to multifractal analysis*. Yaroslavl, Russia: Yaroslavl State University named after P. G. Demidov. (in Russian).
- Tkacheva, T. (2021). Matryoshka—life cycle. *Bēhance*. Retrieved on November 8, 2022, from [https://www.behance.net/gallery/120186107/Matryoshka-life-cycle?locale=en\\_US](https://www.behance.net/gallery/120186107/Matryoshka-life-cycle?locale=en_US).
- Todd, M. (2022). Arkhitekton. Retrieved on November 15, 2022, from <https://arkhitekton.net/about/>.
- Transfiguration Church on Kizhi Island. (2020). A wooden church without a single nail. Retrieved on December 02, 2022, from <https://architectureguru.ru/transfiguration-church-on-the-island-of-kizhi/> (in Russian).
- trans-tekh.ru, (2022). Traditions and customs of the Koryaks. Koryaks are the indigenous population of Kamchatka (10 photos): Ethnic and ethnographic groups. Retrieved on September 14, 2022, from <https://trans-tekh.ru/en/cottage/tradicii-i-obychai-koryakov-koryaki---korennoe-naselenie-kamchatki-10-foto.html>.
- Trask, S. (2023). The Pioneer: György Ligeti. *mu:zines: Music Magazine Archive*. Retrieved on March 3, 2023, from <http://www.muzines.co.uk/>.
- Travel All Russia. (September 13, 2020). Matryoshka: Russian beauty. Retrieved on November 4, 2022, from <https://www.travelallrussia.com/blog/matryoshka-russian-beauty>.
- Tsarskoe Selo State Museum and Heritage Site. (2022). Catherine palace. *Palaces & Parks*. Retrieved on October 12, 2022, from <https://www.tzar.ru/en/objects/ekaterininsky>.
- Tsekova, L.I. (2018). Typological originality of the Abazin culture. *Bulletin of ASU (Atyrau State University)* (the journal is named after the Abai Series of Pedagogical Sciences) 2(219):163-169 (in Russian). Retrieved on September 12, 2022, from <http://vestnik.adygnet.ru/files/2018.2/5343/163-169.pdf>.
- Tubeteika. (2020). Ethnohistory: Skull cap. Retrieved on October 21, 2022, from <https://dzen.ru/media/etnostories/tiubeteika-5e2aaf1486c4a900b2b357d3> (in Russian).
- Turbin, A. F. (1992). *Fraktalnye Mnozhestva, Funktsii, Raspredeleniia*. Kiev, Ukraine: Nauk. Dumka Publishers.
- Tverskaya Matryoshka. (2002-2023). Retrieved on January 29, 2023, from <https://matreshki.ru/news/17-tverskaya-matreshka> (in Russian).
- UNESCO. (1999). Technical assistance for the restoration of Saint Basil's Basilica, Moscow, Russian Federation. *World Heritage Convention*. Retrieved on October 11, 2022, <https://whc.unesco.org/en/activities/781/>.
- UNESCO. (1979). Auschwitz Birkenau: German Nazi concentration and extermination camp (1940-1945). *UNESCO World Heritage Convention*. Retrieved on March 9, 2023, from <https://whc.unesco.org/en/list/31/>.
- Uofa.ru. (2021). Natalia Solzhenitsyn. Love stories: Alexander Solzhenitsyn and two Natalia. Solzhenitsyn Natalia Dmitrievna: Biography Natalia Solzhenitsyn. Love stories: Alexander Solzhenitsyn and two Natalia. Solzhenitsyn Natalia Dmitrievna: Biography. Retrieved on February 18, 2023, from <https://uofa.ru/en/natalya-solzhenitsyna-istorii-lyubvi-aleksandr-solzhenitsyn-1/>.

- Varlamov, A. E. (1976). *Romances and Songs*. Moscow, Russia: Publishing House Music. Retrieved on August 06, 2023, from [https://rusneb.ru/catalog/000199\\_000009\\_004468946\\_1000275390/?ysclid=lkz42n034v181765633](https://rusneb.ru/catalog/000199_000009_004468946_1000275390/?ysclid=lkz42n034v181765633) (in Russian).
- Vasha-Kniga. (2001-2023). Rasskazy i Krokhotki. *Virtual Bookstore*. Retrieved on February 15, 2023, from <https://www.vasha-kniga.com/productdetail.asp?productid=661425> (in Russian).
- Vasilenko, L. A. (2019). Fractal-synergetic approach to the research of entrepreneurship in the non-profit organizations. *Wisdom* 1(12):62-72. Retrieved on June 7, 2023, from <https://wisdomperiodical.com/index.php/wisdom/article/view/221>. <https://doi.org/10.18411/Vasilenko-1-13>.
- Vector NET. (1995-2013). Music backgrounds. Retrieved on March 13, 2023, from <http://www.vectors1.com/2011/music-backgrounds/>.
- Very Important Lot. (2020). Pavel Chelishchev is a representative of metaphysical art. Retrieved on February 15, 2023, from <https://veryimportantlot.com/ru/news/obchestvo-i-lyudi/pavel-chelishhev-biografiya-tvorchestvo-kartiny-khudozhnika#gallery-9> (in Russian).
- Very-Old-Geezer. (2022). Aleut whaler. *Deviant Art*. Retrieved on September 14, 2022, from <https://www.deviantart.com/very-old-geezer/art/Aleut-Whaler-70950661>.
- Vezhbovska, L. (2022). Welcome to Ukrainian Avant-garde! *Pinterest*. Retrieved on November 13, 2022, from <https://www.pinterest.co.kr/pin/ukrainian-avantgarde--358810295302024846/>.
- Vishnevetsky, I. (May 21, 2018). Bely, Andrei (originally in the *Encyclopedia of Modern Europe: Europe 1789-1914: Encyclopedia of the Age of Industry and Empire*). *Encyclopedia.com*. Retrieved on February 5, 2023, from <https://www.encyclopedia.com/people/literature-and-arts/russian-and-eastern-european-literature-biographies/boris-nikolayevich-bugayev>.
- Vladimirtan (2019). Solving the 400-year-old mystery of the color coloring of the domes of St. Basil's Cathedral. Retrieved on November 27, 2022, from <https://vladimirtan.livejournal.com/860329.html> (in Russian).
- Volodma, T. I. (2010). Narbut, Georgii Ivanovich. *The Great Soviet Encyclopedia*, 3<sup>rd</sup> ed. Farmington Hills, MI: The Gale Group, Inc.
- Voyager-1. (March 3, 2012). Wassily Kandinsky Mobius fractal homage. *Deviant Art*. Retrieved on June 17, 2023, from <https://www.deviantart.com/voyager-i/art/WASSILY-KANDINSKY-MOBIUS-FRACTAL-HOMAGE-288378599>.
- Walker, E. (October 13, 2021). Alone in deer park (Один в оленьем парке). *WordPress*. Retrieved on March 3, 2023, from <https://santarosarecords.com/2021/10/alone-in-deer-park-%D0%BE%D0%B4%D0%B8%D0%BD-%D0%B2-%D0%BE%D0%BB%D0%B5%D0%BD%D1%8C%D0%B5%D0%BC-%D0%BF%D0%B0%D1%80%D0%BA%D0%B5>.
- wassilykandinsky.net. (2008-2023). Kandinsky: The biography, Moscow, 1866-1896. Retrieved on June 17, 2023, from <https://www.wassilykandinsky.net/>.
- Wayne, J. (February 5, 2019). "The Gulag Archipelago" is an immortal work a. Solzhenitsyn. "Gulag Archipelago" as an experience of a fiction. *Thestrip.ru*. Retrieved on February 17, 2023, from <https://thestrip.ru/en/face/arhipelag-gulag--bessmertnoe-proizvedenie-a-solzhenicyna-arhipelag/>.

- Wells, D. N. (2003). The symbolic structure of Andrei Bely's *Pervoe Svidanie*: Echoes of Wagner and Steiner. *The Slavonic and East European Review* 81(2):201-216. Retrieved on February 5, 2023, from [https://espace.curtin.edu.au/bitstream/handle/20.500.11937/8906/21368\\_Microsoft%2520Word%2520-%25208644\\_Bely\\_\\_revised\\_.pdf?sequence=2&isAllowed=y](https://espace.curtin.edu.au/bitstream/handle/20.500.11937/8906/21368_Microsoft%2520Word%2520-%25208644_Bely__revised_.pdf?sequence=2&isAllowed=y). <https://doi.org/10.1353/see.2003.0146>.
- wen, b. (February 26, 2013). Your life path, Pythagorean numerology, and your name. Retrieved on October 26, 2022, from <https://benebellwen.com/2013/02/26/life-path-numerology-and-name/>.
- Wetcircuit. (2018). Archimatix dome and rooftop fundamentals. Retrieved on October 10, 2022, from <https://wetcircuit.com/3D/tutorials/AchimatrixDomeAndRooftopFundamentals.pdf>.
- Whalley, Z. (July 31, 2018). The most important Russian artists in history. *The Culture Trip*. Retrieved on November 15, 2022, from <https://theculturetrip.com/europe/russia/articles/the-most-important-russian-artists-in-history/>.
- Wiench, P. (2010). Neo-Pagan groups in Central-Eastern Europe. *Groups and Environments* 2:105-108. Retrieved in April 20, 2023, from [http://vddb.elaba.lt/fedora/get/LT-eLABa-0001:J.04~2010-ISSN\\_2029-4182.N\\_2.PG\\_105-108/DS.002.1.01.ARTIC](http://vddb.elaba.lt/fedora/get/LT-eLABa-0001:J.04~2010-ISSN_2029-4182.N_2.PG_105-108/DS.002.1.01.ARTIC).
- Wienck, L. (2022). Explore fractal and quantum variations. *Fractal Find*. Retrieved on August 9, 2022, from <https://www.fractalfind.com/>.
- Wikipedia. (2024a). St. Basil's Cathedral. Retrieved on December 1, 2024, from [https://en.wikipedia.org/wiki/Saint\\_Basil%27s\\_Cathedral](https://en.wikipedia.org/wiki/Saint_Basil%27s_Cathedral).
- Wikipedia. (2024b). Catherine Palace. Retrieved on December 1, 2024, from [https://en.wikipedia.org/wiki/Catherine\\_Palace](https://en.wikipedia.org/wiki/Catherine_Palace).
- Wikipedia. (2024c). Renaissance Egg and Rosebud Egg. Retrieved on December 1, 2024, from [https://en.wikipedia.org/wiki/Faberg%C3%A9\\_Museum\\_in\\_Saint\\_Petersburg](https://en.wikipedia.org/wiki/Faberg%C3%A9_Museum_in_Saint_Petersburg).
- Wikipedia. (2024d). Lyubov Popova. Retrieved on December 1, 2024, from [https://en.wikipedia.org/wiki/Lyubov\\_Popova](https://en.wikipedia.org/wiki/Lyubov_Popova).
- Wiltz, J. (July 28, 2020). A brief history of the Russian Kokoshnik tiara. *Medium*. Retrieved on October 27, 2022, from <https://jenniwiltz.medium.com/a-brief-history-of-the-russian-kokoshnik-tiara-3a5189cdd945>.
- Wolf, N. (2012). *The Art of the Salon: The Triumph of 19<sup>th</sup>-Century Painting*. Munich, Germany, London, UK, and New York, NY: Prestel.
- Wolfe, R. (March 13, 2014). Divides drawn: The "Paper Architecture" of the USSR. *Metropolis*. Retrieved on January 16, 2023, from <https://metropolismag.com/projects/cultural-divide-the-paper-architecture-of-the-ussr/>.
- Wright, S. (2023). What is folk music? *Classical Music: BBC Music Magazine*. Retrieved on February 23, 2023, from <https://www.classical-music.com/features/musical-terms/what-is-folk-music/>.
- Xzendor7. (2022). Girl with Kokoshnik. *Xzendor7 Digital, Classical and Vintage Art*. Retrieved on October 29, 2022, from <https://xzendor7.com/>.
- Yankovskaya, Y. (2013). Architectural theory in Russia: Holding on the past or looking to the future? *Proceedings of the Latvia University of Agriculture Landscape Architecture and Art* 2(2):50-58. Retrieved on January 19, 2023,

- from [https://lufb.llu.lv/Raksti/Landscape\\_Architecture\\_Art/2013/Latvia-Univ-Agriculture\\_Landscape\\_Architecture\\_Art\\_VOL\\_II\\_2013\\_50-58.pdf](https://lufb.llu.lv/Raksti/Landscape_Architecture_Art/2013/Latvia-Univ-Agriculture_Landscape_Architecture_Art_VOL_II_2013_50-58.pdf).
- Zavgorodnyaya, M. (2022). Traditions of Itelmen. Retrieved on September 19, 2022 from <https://musaget.ru/traditsii-itelmenov-zabavnyy-praroditel-i-ochischenie-beryozoy> (in Russian).
- Zhigun, L. A. (2017). The theory of organization and organizational activity. *A Thesaurus Monograph*. Moscow, Russia: INFRA-M (in Russian). <https://doi.org/10.1353/see.2003.0146>.
- Zhigun, L. A. (2021). *Fundamentals of Labor Organization*. Moscow, Russia: KnoRus, EBS Book.ru. Retrieved on November 01, 2022, from <https://book.ru/book/941852> (in Russian).
- Zhigun L. A. (2014). Management theory: theory of organization. Moscow, Russia: INFRA-M. (in Russian). <https://doi.org/10.12737/2375>.
- Zhigun, L. A. and Bangura, A. K. (2018). Aleksandr Sergeevich Pushkin's *Eugene Onegin*: A fractal analysis. *The Journal of Pan African Studies* 11, 3:56-83.
- Zhikov V.V. (1996). Fractals. *Soros Educational Journal* (12):109-117 (in Russian).



# Index

## A

- A Delicate Fractal, 447, 478  
a representative of village prose, 303  
a writer of camp prose, 303  
A. D. Morozov, 27  
A. I. Azevicha, 28  
A. I. Stuckenschneider, 146  
A. V. Voloshinova, 28  
Abstract Art, 345, 346  
activation of the qualimetric  
device, 441  
Agathon, 154  
Alejandro Fiódorovich Borkus, 364  
Aleksander Rodchenko, 220  
Aleksánder III, 160  
Aleksandr Isayevich Solzhenitsyn, 295  
Aleksandr Sergeevich Pushkin, 2, 12, 464, 480  
Aleksandr Trifonovich Tvardovsky, 298  
Aleksandra Dmitrievna, 265  
Aleksandra Ekster, 208, 214  
Aleksei Tolstoy, 269  
Alexander Archipenko, 208  
Alexander Brodsky, 244, 246  
Alexander Gerbertovich Rappaport, 385  
Alexander III, 154, 157, 161, 162, 164, 168  
Alexander Nikolayevich Scriabin, 9, 12, 365, 375  
Alexander Rodchenko, 213, 220, 221  
Alexander Sergeyeovich Pushkin, 268, 274  
Alexander Tikhonovich Gretchaninov, 364, 365  
Alexandra Feodorovna, 167  
Alexandra Novozhenova, 208  
Alexandropol, 420  
Alexandrov Ensemble, 323  
Alexei Vladimirovich Stanchinsky's *Euphonious Fractals*, 363  
*Algebra*, 13, 20, 21, 31  
*alienated labor value*, 107  
Allah (SWT), 138  
ambient space, 21  
anagkaios, 423  
analog-digital dichotomy, 381  
Anarchism, 205  
Andrei Belyi, 265  
Andrey/Andrei/Andrej Nikolaevich Kolmogorov, 407  
Antique Russian Kazakh Rug, 103  
apocalyptic philosophy, 267  
Apollon Apollonovich Ableukhov, 269  
Architecton Gotha, 238  
Architecton Zeta, 237  
architectural backwardness, 248  
Arctic Circle, 133  
Arctic shelf, 397, 398, 404  
Aristotle Fioravanti, 147  
*Arithmetic*, 13, 17, 18, 19, 31  
arkDome, 450, 451  
Arkhitekton Alpha, 234, 235, 237  
Arkhitekton Beta, 235, 236, 237  
*Arkhitektoniki/Arkhitektoniks/Arkhitektons*, 225  
Arthur Schopenhauer, 266  
Artificial Intelligence, 408  
Ascension, 416  
Asian Russia, 425  
assassination by mistake, 271  
Assumption Cathedral, 136, 142, 147, 148, 149, 150  
asymmetric and orthogonal forms, 248  
*Aufhebung*, 111  
autocatalysis, 95  
automated training system, 440  
Auto-Poesies Models, 438  
autopoiesis, 95  
Avant-garde, 205, 222, 223  
Avvakumov's Tower, 249

Axiom, 482

## B

B. Vargi, 28  
*Babushka*, 187  
 Babushka Boi, 329  
 babushka fashion, 329  
 baby, 303  
 Ballets Russes, 429, 430, 432  
 Baroque, 135, 136  
 Bauhaus School of Architecture, 230  
 beauty of primitive shapes in abstract compositions, 233  
 Beethoven, 266  
 behaviorism, 408  
 Benoit B. Mandelbrot, 1, 2  
 Bertell Ollman, 115  
 Black Hole Universe, 196  
 Black Square, 227, 229, 232, 235, 241  
 Bolsheviks, 420  
 border, 29  
 Boris Pasternak, 269, 270  
 Boris Rybakov, 137  
*Bylinas/Byliny*, 322  
 Byzantine design, 134

## C

Cathedral of Saint Sophia, 149  
 Cathedral of St. Demetrius, 136  
 Cathedral of the Protection of the Mother of God, 134  
 Cathedral of Vasily the Blessed, 140  
 Catherine Palace, 144, 145, 150  
 Catherine the Great, 135, 145, 173, 174  
 Chaldean Numerology, 171  
 chaos, 343, 344, 348, 357  
*Chaos*, 1, 3, 4, 5, 6, 11, 12  
*Chastushka*, 318  
 Chinese nesting dolls, 191  
 Chopin, 266  
 Christian theology, 419  
 Christianity, 210  
 Christmas, 366, 379  
 Church of the Transfiguration, 134, 148

*Circle and Sphere Inversion Fractals*, 13  
 CNN, 138, 150  
 cognitive, 408, 422  
 Complexity Graphics, 343, 344, 362  
 Complexity Theory, 348  
 Computer Assessment of Knowledge, 457  
*Conflict Theory*, 33, 34  
 connection between femaleness and Russia, 325  
 connectivism, 408  
 constant circle of relations, 328  
 Constitutional Democratic Party, 270  
 Constructivism, 205, 208, 220, 408  
 Content Structure of Teaching and Learning, 456  
*Convergent Fractals*, 13  
 Coronation Egg, 166, 167, 168  
 Countess Granard, 176  
 Crown Prince Rupprecht, 181  
 crumbs, 302, 304, 305, 306, 307, 315  
 Cuban missile crisis, 391  
 Cubism, 227, 235  
*culture*, 33  
 Cylindrical Hats of Veliky Novgorod, 182

## D

D. A. Parshin, 27  
 Dada, 205  
 Dario Marianelli, 324  
*Daruma* dolls, 191  
 David Burliuk, 208  
 degenerate and anti-Soviet, 228  
 Design for a Cover of Ivan Krylov's *Fables*, 99  
 desocialization, 396  
 Deutsches Architektur Museum, 385  
 devils of every kind, 211  
*Di gilderne pave*, 326  
 Diptown, 212  
*Divergent Fractals*, 13  
 Dmitri Viktorovich Pokrovsky, 329  
 Doll's House, 254, 255  
 Donald John Trump, 137, 383

Dormition Cathedral, 137  
 Dorothy and Artie McFerrin, 159  
 Duchess Elizaveta Feodorovna,  
 176  
 Dulevsky Porcelain Factory, 129,  
 130

## E

E. Loparitsa, 28  
 E. V. Razovaya, 10  
 Easter, 153, 157, 158, 159, 160,  
 161, 162, 164, 166, 167, 168, 169,  
 170  
 Easter Egg Coronation, 166  
 Easter Rain, 285, 286, 287, 288,  
 289, 291  
 Eavan Kupala, 416  
 Elena Borisova, 330, 341  
 Elena Chernyshova, 127  
 Elizaveta Grigorievna  
 Mamontova, 191  
 Elizaveta Khaustovich, 178  
 Emperor Nicholas I, 146  
 Empress Alexandra Feodorovna,  
 165, 166, 174  
 Empress Catherine II, 144, 166  
 Empress Maria Feodorovna, 157,  
 158, 164, 168, 169  
*enifremdet*, 112, 113  
*Entäußerung*, 111  
*Entfremdung*, 111  
 Entropy and Minkowski  
 Dimension, 409  
 estranged, alienated labor, 107,  
 108  
 eternal rest, 210  
 eurythmics system, 282  
 Everythingism, 431  
 Evgenia Iliukhina, 431  
 Evolution Tower, 450  
 excessive neoclassicism, 245

## F

F. B. Rastrelli, 146  
 Fabergé Museum, 159, 167, 168,  
 170  
 Father of Russian Classical Music,  
 365  
 Faustian cultures, 410

Folk Song, 317  
 Four Evangelists, 134, 138  
*Fractal Blossoms*, 330  
*Fractal Dimension*, 476  
 Fractal Enlightenment, 433  
*Fractal Geometry*, 381, 384, 385,  
 386, 387, 388, 390  
 Fractal in Radiolocation, 461  
*Fractal metaphor*, 396  
*Fractal Methodology*, 472  
*Fractal paradigm*, 195  
 Fractal Praztal, 449  
*Fractal Process*, 8  
 Fractal Radio Electronics, 459  
 Fractal Texture and Deterministic  
 Chaos, 459  
*Fractal Theory*, 392, 397, 398  
 fractal-synergetic approach, 437,  
 438, 443  
 Free Arts Studio, 227  
 Free Philosophical Association,  
 270  
*fremder Produkt*, 112  
 Friedmann–Lemaître–Robertson–  
 Walker (FLRW) metric, 196  
 Friedrich Nietzsche, 266  
 From Behind the Island to the  
 Strezhen, 336, 337  
 Fukurokuju, 191  
 functional symbolism, 139  
*Functionalism*, 33, 34  
 Futurism, 205, 208, 213, 214, 220,  
 227, 235  
 Futuristic Portrait, 358

## G

Geoinformation Services, 462  
*Geometry*, 13, 21, 26, 27, 31  
 Georgii Ivanovich Narbut, 99  
 German Architecture Museum,  
 243  
 Girl with Kokoshnik, 179, 186  
 Gleb Napreenko, 208  
 God, 308, 309, 310, 313  
 Gold in Azure, 266, 283, 292  
 Golden Ring of Russia, 193  
*Golus*, 326  
 GORPROJECT, 450

Grand Duchess Elizabeth  
 Feodorovna's emerald tiara,  
 179  
 Grand Duchess Hilda of Baden's  
 Tiara, 181  
 Grand Duchess Maria Pavlovna,  
 176, 180  
 Great Moscow Council, 102  
 gross national product, 402  
 Group Theory, 27  
 Guilloché enamel, 161, 165  
 gulag, 296, 316  
 Gulag, 324  
*Gulag Archipelago*, 298, 300, 315,  
 316  
 Gustav Fabergé, 157

## H

*Height Field Fractals*, 13  
 Helge von Koch, 23  
 Hen Egg, 161, 162, 168  
 Henrik Ibsen, 365  
 hesychasm, 409  
 Hey, ukhnem!, 334, 335, 341  
 High Academic School of Graphic  
 Design, 343  
 High Modernism, 265, 276, 279,  
 280  
 higher reality, 210  
 Hillary Rodham Clinton, 137  
 Holy Bible, 421  
 Holy Trinity, 134, 138, 139, 142  
 homophonic-harmonic system,  
 329  
 hope and tragedy, 211  
 House of Fabergé, 153, 156, 157,  
 161  
 House of Representatives in  
 Congress, 384  
 Hugo Münsterberg, 231  
 humanism, 408  
 Hungarian neo-Shamans, 406  
 Hymn to Nikkal, 318  
*Hyperbolic Tessellation Fractals*, 13

## I

I. K. Buckendal, 166  
 Igael Tumarkin, 386

Ignat Aleksandrovich  
 Solzhenitsyn, 295  
 Ilya Mischenko, 97, 98  
 Ilya Repin, 218  
 Ilya Stavitsky, 97, 98  
 Ilya Utkin, 244, 246  
 imaginary number, 14  
 Immanuel Kant, 266  
*imperial*, 481  
 improving Russian-American  
 relations, 324  
*indigenous cultures*, 481  
 Informative Line "Modelling", 454  
 injective endomorphisms, 21  
 Inverse Fast Fourier Transform,  
 407  
*irregular periodicity*, 4  
 Isaakiy Solzhenitsyn, 295  
 Islamic symbolism, 139  
*Iterated Function System*, 14  
 Ivan Golikov, 129  
 Ivan Larionov, 318  
 Ivan Rerburg, 226  
 Ivan Sergeyevich Turgenyev, 177  
 Ivan Vasilyevich, 134, 141

## J

J. B. Vallen-Delamot, 146  
 Jack of Diamonds avant-garde  
 artists group, 430  
 Japanese ancestry, 191  
 Japanese mythology, 191  
 Jesus Christ, 134, 138, 139  
 jeweled eggs, 153  
 Johann Friedrich Braunstein, 144  
 Johann Georg Faust, 410  
 Johann Zeingraf, 167  
 Josef Lhévinne, 365  
 Joseph Vissarionovich Stalin, 190,  
 245, 297  
 Juan A. Soto, 121  
 Julia sets, 13, 16, 24  
 Justus von Liebig, 95

## K

*Kalinka*, 318, 319, 323, 330  
 Karl Marx, 91, 107  
 Kazimir Severinovich Malevich, 225  
*Khorovod*, 320, 321, 322

Kiev State Art Institute, 227  
 King Gustav, 181  
 Klavdiia Nikolaevna Vasil'eva, 270  
*Kleinian Group Fractals*, 13  
 Koch curve, 23  
 Kokoshniks/Kokoshniki, 171  
 Kolmogorov Algorithmic  
 Information Theory, 407  
 Kolmogorov Complexity, 409  
 Konstantin Nikolayevich  
 Igumnov, 365  
 Konstantin Romanovich Eiges,  
 365  
 Kremlin Armoury, 159  
*Krokhotky*, 295

## L

*L System Fractals*, 14  
*lack of predictability*, 4  
 Lacquer miniatures, 129  
 Lake Onega, 134  
 Lavr Georgiyevich Kornilov, 419  
 Law on the Legal Status of Native  
 Peoples of the North, 427  
*lay attempts*, 481  
 Learning Theory, 408  
 Leningrad Academy of Arts, 227  
 Letter to the Corinthians, 421  
 Lev Evzovich, 244  
 Lev Nikolayevich Tolstoy, 178  
 Lily of the Valley Egg, 167  
 linguistic presupposition, 464, 469  
 little piggies, 190  
 logarithm, 476  
 Lyubov Popova, 213, 221, 223

## M

M. S. Solovyov, 267  
 Maidanskaya Matryoshka, 188,  
 200, 201  
 Marc Chagall, 215, 221, 222  
 Maria Feodorovna, 160, 161, 168  
 Marina Tsvetaeva, 269  
 Markov models, 348  
 Martial Bourdin, 419  
 Mathematical harmony and  
 simplicity, 343  
*Matryoshka*, 187  
 Maurice Maeterlinck, 266

media-container format, 196  
 Mega Regions, 399, 400  
 Mega-Eurasian Region, 399  
 Metabola, 207  
 meta-political sense, 388  
 meta-realism, 207  
 Method of Fractal Description,  
 382  
 Michael Perchin, 155, 156  
 Midpoint Displacement, 407  
 Mikhail Belov, 244  
 Mikhail Filippov, 244, 246, 249  
 Mikhail Glinka, 467  
 Mikhail Gorbachev, 190  
 Mikhail Ivanovich Glinka, 365  
 Mikhail Larionov, 226  
 Mikhail Perkhin, 165  
 Mikhail Sergeyeovich Gorbachev,  
 324  
 minimalism, 348, 349, 351  
 Ministry of Foreign Affairs of the  
 Russian Federation, 439  
 Modern Numerology, 172  
 Moderne, 210  
 Molpah, 117  
 MOLPOSNOVIS, 228  
 Mongol, 136, 137  
 Moscow Cathedral, 147  
 Moscow Conservatory, 364, 365,  
 366, 375  
 Moscow State Institute of  
 International Relations, 439  
 Moscow State University, 343,  
 344, 362  
 Moscow University, 265, 266  
 Museum of Disappearing  
 Buildings, 256, 257  
 Museum of Modern Art, 243, 249  
 musicality, 209  
 mystical revelation, 210  
 myth-making, 210

## N

N. A. Bushmeleva, 10  
 N. H. Rozov, 28  
 Natalia Alekseyevna  
 Reshetovskaya, 295  
 Natalia Dmitrievna Svetlova, 295  
 Natasha, 178, 186

National Museum of Modern Art, 243  
 Native Americans, 412  
 Nazi Germany, 146  
 Necrospective, 394  
 negentropic, 95  
 Neo-Baroque, 265, 276, 277, 280, 286, 289, 291, 292  
 neo-Pagan religious movements, 406  
 Neo-Rococo, 155  
 new direction in art, 249, 250  
*new directions*, 482  
 New Element of Settlement, 251, 252, 253  
 New Year, 366  
 Nicholas I, 173, 174  
 Nicholas II, 155, 162, 163, 165, 166, 167, 169, 174, 179, 420  
 Nikita Khrushchev, 190  
 Nikita Kolbovskiy, 212  
 Nikita Sergeevich Khrushchev, 324, 390  
 Niklaus Bernoulli, 434, 435  
 Nikolai Apollonovich Ableukhov, 269  
 Nikolai Gogol, 268  
 Nikolai Lobachevsky, 217  
 Nikolai Petrovich Osipov, 328  
 Nikolay Sergeevich Zhilyayev, 365  
 Nikolay Vasilevich Bugaev, 265  
 Nobel Prize for Literature, 295  
 nonconformist reflection, 244  
 North Atlantic Treaty Organization (NATO), 245, 393

## O

O. Y. Isopeskul, 9  
 octagram, 147  
 Один в оленьем парке (Alone in Deer Park), 329, 342  
*Oh, Moroz, Moroz*, 319  
 Oncorhynchus Gorbuscha, 97  
 1 Corinthians, 421, 422, 424  
 onion domes, 133  
 Openness Entrepreneurship Models, 438  
 Operation Osoaviakhim, 297  
*Order*, 5

originality and creative flair, 245  
 Orthodox Christian Embroidered Skoofia Skull Cap, 102  
 outlandish dreamy Utopian fairy proposal, 245

## P

Pablo Ruiz, 419  
 Paganism, 405, 406  
 pan-human, 210  
 Pan-Russian Exhibition, 154  
 Paper Architecture, 385  
 Paris School, 430  
 Parsonian lens, 389  
 Patriarch Nikon, 138  
 Paul Gauguin, 429, 431  
 Pavel Alekseyevich Cherenkov, 347  
 Pavel Milyukov, 271  
 Pavel Tchelishchew, 217  
 Peer Gynt, 365  
 People's Liberation Army Air Force, 392  
 Peredvizhniki, 210  
 Peter Alekseevich Kropotkin, 419  
 Peter Berggardovich Struve, 268  
 Peter I., 146  
 Peter III, 135  
 Peterhof Palace, 146, 147, 150  
 Petr Dar'ial'skii, 268  
 Petrovsky Travelling Palace, 453  
 phase space, 475  
 Philip Glass Music Portraits, 349, 351  
 physiocracy, 109, 119  
 Piano Sonata in E-flat Minor, 373, 375  
 Piano Sonata in G Major, 367, 373, 376  
 Plakhova's Music Portraits, 344  
 planer assemblage, 233  
 Platov Airport, 452  
*politics*, 481  
 polytheistic Reconstructionism, 405  
 POSNOVIS, 228  
 power law, 436  
 Pratzal Fractal, 212  
 pre-Mongol Russian architecture, 137

presuppositional discourse, 474  
 presuppositions of *disorder*, 474  
 presuppositions of *order*, 474, 475  
 Prince Ivan III, 147  
 Prince Yevgeny Trubetskoy, 138  
 Princess Alexandra of Hanover and  
 Cumberland, 156  
 Princess Alix of Hesse, 179  
 Princess Antonia, 181  
 principle of repeated  
 triangulation, 19  
*professional attempts*, 482  
 proportional system, 233  
 Protection of Images, 461  
 pseudomorphosis, 411  
 Psychological Laboratory of  
 Harvard University, 231  
 pure physical automatism, 206  
 Pushkin State Museum of Fine  
 Arts, 243  
 Pyatnitsky Choir, 328  
 Pythagorean Numerology, 171,  
 172

## Q

qualimetry, 440  
 Quantum Theory, 20  
 Queen Elizabeth II, 175  
 Queen Mary, 175

## R

Rasputin, 268  
 Rasputinism, 268  
 Raster geometric flower patterns,  
 128  
 real number, 14  
 Red Army Choir of the Soviet  
 Union, 323  
 Red Cross Ball in Palm Beach, 180  
 “Red May” art glass, 128  
 Renaissance, 155, 164, 165  
*resistance*, 481  
 Resurrection, 416  
 River Volga, 325  
 Rococo, 135, 145  
 Roman Jacobson, 270  
 Romanov, 153, 158, 163, 167, 168  
 Romanov House, 146  
 Ron Eglash, 445

Ronald Wilson Reagan, 391  
 Rosebud Egg, 165  
 Rostov University, 296  
 Russia-google-earth-fractals, 433  
 Russian anarchists, 419  
 Russian Baby Doll Principle, 195  
 Russian Empire, 420  
 Russian Folk Songs, 317  
 Russian Fractal Curve, 446  
 Russian Fractality, 481, 482  
 Russian Imperial Porcelain  
 Factory, 124, 125  
 Russian International Affairs  
 Council, 382, 404  
 Russian Modernism, 430  
 Russian monk, 191  
 Russian Nesting Dolls, 187  
 Russian onion domes, 133  
 Russian Orthodox Church, 138, 140  
 Russian Paper Architecture, 243  
 Russian Pavilion, 243  
 Russian Revolution, 249, 250, 266,  
 268  
 Russian Roomal Folk Song, 330  
 Russian Studies, 381, 388, 389, 390  
 Russian Surrealist Art, 205  
 Russian-born American novelist  
 and critic, 271  
 Russian-Ukraine war, 388

## S

S. V. Bozhokin, 27  
 Saint Alexei, 363  
 Saint Paul, 421, 423  
 Salvador Dalí, 207, 221  
 sarafan, 171, 173, 178  
 Satan’s rebellion against God, 419  
*sautoir*, 180  
 Savva Mamontov, 191  
 Scenes from the Life of Siamese  
 Freaks, 290, 291, 292  
*selbst sich vergegenständlicht*, 111  
 self-organizing systems, 348  
 self-similarity, 3, 9, 10  
 Semenov Nesting Doll, 188  
 Semionovskaya Matryoshka, 188,  
 198  
*sensitivity to initial conditions*, 4  
 Serge Diaghilev, 430  
 Sergei Esenin, 269

Sergei Maliutin, 191  
 Sergei Mikhailovich Eisenstein, 419  
 Sergei Pavlovich Diaghilev, 431  
 Sergei Sergeevich Prokofiev, 365, 376  
 Sergey Malyutin, 188  
 Sergey Zagraevsky, 137  
 Sergievo-Posadskaya, 188, 197, 198  
 Series Theory, 10, 27  
 Set Theory, 10  
 Seven Sisters, 248  
 Shichi-Fukujin, 191  
 Shukhov Tower, 101  
*shver un shvigers kest*, 326  
 Siberia, 425, 429  
 Silver Age, 267  
 slow and elegiac, 323  
 Small Pearl Hats of Kargopol, 184  
*Snegurochka*, 172  
 social *Fractal*, 437, 438  
 social mainstream, 406  
 Sonata of Nature, 351  
 Sounding of "Jellyfish-like"  
     Domes, 352  
 Soviet refrigerator, 394  
 Spaso-Yakovlesky Monastery, 140  
 spiritual and moral, 415, 416  
 St. Basil's Cathedral, 134, 138, 140, 141, 142, 143, 150  
 St. Nikolaj, Il'ya the Prophet, 416  
 St. Petersburg Paradox, 434, 435, 436  
 Stadium Rostov Arena, 452  
 Stalinist architects, 247  
 standard of behavior, 402  
 Stanislav Shminke, 212  
 State Anthem of the Russian Federation, 464  
 State Russian Museum, 243  
 State Tretyakov Gallery, 243  
 Stepan Aleksandrovich Solzhenitsyn, 295  
 stochastic *Fractals*, 29  
*Strange Attractors*, 14  
 Stroganov School of Art, 226  
 Suprematism, 227, 230, 231, 232, 235, 239  
 Suprematist, 226, 227, 229, 230, 231, 232, 234, 239, 240, 241  
*Symbolic Interactionism*, 33, 36

Symbolist, 267  
 sympoiesis, 95  
 Synergy-Integrating Models, 438

## T

Taisiya Solzhenitsyna, 296  
 tamanous, 412, 424  
 Tammy Marie Erickson, 116  
 Tate Modern, 431  
 Tatiana Alekseevna, 363  
 Tatiana Plakhova, 343  
 Teaching Stochastics, 456  
 Technology of Synergy in  
     Secondary Schools, 455  
 Tengiz Abuladze's film  
     Repentance, 250  
 The birch tree, 324  
 The Cross, 408  
 The Death of Ermak, 333, 334  
 The Last Supper, 408  
 The Novel "The Gift", 288  
 The Square Roots, 196  
 The Stateless Theater or Roving  
     Auditorium, 258, 260  
 The Street, You Are My Broad  
     treet, 331  
 theorem, 481, 482  
*3D Fractals and Higher Dimensions*,  
     13  
 three vital instincts, 249, 250  
 Tony Burns, 119  
 Totan Kuzembaev, 244  
 transition from Socialism to post-  
     Socialism, 249  
 tree of life, 211  
 Tretyakov Gallery, 431, 433  
 Triangular Kika of Kostroma, 183  
 Tsarina Alexandra Feodorovna,  
     158  
 Tubeteika, 102  
 Tverskaya Matryoshka, 189, 202,  
     204  
 Twelve Sketches, 367, 368, 373  
 Two-pointed Nimbus Kika of  
     Vladimir, 182  
 two-worldism, 209

## U

Ukhar'-koopets, 330, 331

unalienated ecological value, 93, 96  
 unalienated expressive value, 93  
*unalienated labor value*, 91, 481  
 Union of Soviet Socialist Republic (USSR), 245  
 United States Federal Bureau of Investigation, 383

## V

V. A. Tadeeva, 28  
 V. E. Voitsekhovich, 39  
 V. N. Nikonov, 201  
 V. S. Sekovanov, 27  
 Valdimir Lenin, 190  
 Vasily Kandinsky, 216, 220, 221, 222  
 Vasily Solovyov-Sedoi, 324  
 Vassily Zviozdochkin, 188, 191  
 Vedic/Indian Numerology, 171  
 Viaducity (Viaduct City), 253, 254  
 Vibetsk Practical Art School, 227  
 Victor Bregeda, 207, 221  
 Viktor Vasnetsov, 210  
 Villa Claustrophobia, 260, 261, 262  
 VKhUTEMAS, 231  
 Vladimir Nikolaevich Stanchinsky, 363  
 Vladimir Shukhov, 101  
 Vladimir Sirin, 271, 275  
 Vladimir Solovyov, 267, 283  
 Vladimir Tatlin, 208  
 Vladimir Vladimirovich Nabokov, 265  
 Vladislav Khodasevich, 274  
*Vo Pole Bereza Stoyal*a, 319  
*Volga-matushka*, 325  
 Vorticism, 205  
 Vyacheslav Mizin, 244  
 Vyatskaya Matryoshka, 201, 203

## W

Wagner, 266, 284, 293  
 Walter Gropius, 230  
 Wassily Kandinsky, 226  
 Wassily Kandinsky Fractal Homages, 445  
 Weak Resistance, 208  
 Weierstrass function analysis, 29  
 White House, 138, 324, 383  
 Winter Egg, 161, 168, 169  
 world disclosure, 392, 403  
 World War I, 208, 217, 295, 419, 420, 430, 432, 433  
 World War II, 209, 218, 228, 296, 323

## Y

Y. M. Felten, 146  
 Yamshik, neo goni loshadeil, 337  
 Yaroslavl State Pedagogical University, 439  
 Yelena/Elena Ivanovna, 271  
 Yelets State University, 439  
 Yellow Fractal, Orange Fractal, 447  
 Yermolai Aleksandrovich Solzhenitsyn, 295  
 Yevgeny Zamyatin, 268  
 Youlia Berezniatskaia, 190  
 Yu. Dumen, 28  
 Yu. P. Alexandrovskaya, 9  
 Yu. V. Linnik, 26, 30  
 Yuri Avvakumov, 243, 246, 248

## Z

Zagorskaya Matryoshka, 188, 197, 198  
 Zelenograd Musical Theater, 330  
 Zen Buddhism, 191  
 Zinoviyy Aronovitch Kiselgof, 326