

Yurij Holovatch

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2933816/publications.pdf>

Version: 2024-02-01

132
papers

2,292
citations

236612

25
h-index

264894

42
g-index

138
all docs

138
docs citations

138
times ranked

1256
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Spreading processes in "post-epidemic" environments. II. Safety patterns on scale-free networks. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2022, 591, 126799. | 1.2 | 3 |
| 2 | Big fish and small ponds: why the departmental h-index should not be used to rank universities. <i>Scientometrics</i> , 2022, 127, 3279-3292. | 1.6 | 5 |
| 3 | A mechanism for evolution of the physical concepts network. <i>Condensed Matter Physics</i> , 2021, 24, 24001. | 0.3 | 2 |
| 4 | Spreading processes in post-epidemic environments. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2021, 573, 125980. | 1.2 | 6 |
| 5 | Variety of scaling laws for DNA thermal denaturation. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2021, 573, 125917. | 1.2 | 3 |
| 6 | NETWORK OF SCIENTIFIC CONCEPTS: EMPIRICAL ANALYSIS AND MODELING. <i>International Journal of Modeling, Simulation, and Scientific Computing</i> , 2021, 24, . | 0.9 | 3 |
| 7 | Generalized Ising Model on a Scale-Free Network: An Interplay of Power Laws. <i>Entropy</i> , 2021, 23, 1175. | 1.1 | 7 |
| 8 | DNA thermal denaturation by polymer field theory approach: effects of the environment. <i>Condensed Matter Physics</i> , 2021, 24, 33603. | 0.3 | 0 |
| 9 | Ð Ñ–Ð»Ðµ Ñ” Ð±Ñ–Ð»ÑĈĈÑĈÐ¼ Ð–Ð° ÑÑfÐ¼Ñf Ð¼Ð¾Ð¾Ð¾¼ Ñ±Ð°ÑÑ,Ð,Ð½. <i>Visnik Nacional Noi Akademii Nauk Ukraini</i> , 2021, . | | |
| 10 | Embedding technique and network analysis of scientific innovations emergence in an arXiv-based concept network. , 2020, , . | | 3 |
| 11 | Shape analysis of random polymer networks. <i>Journal of Physics Condensed Matter</i> , 2020, 32, 335102. | 0.7 | 0 |
| 12 | Large-scale structures in the Λ CDM Universe: network analysis and machine learning. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 495, 1311-1320. | 1.6 | 11 |
| 13 | Possibility of a continuous phase transition in random-anisotropy magnets with a generic random-axis distribution. <i>Physical Review B</i> , 2020, 101, . | 1.1 | 3 |
| 14 | Ising model with variable spin/agent strengths. <i>Journal of Physics Complexity</i> , 2020, 1, 035008. | 0.9 | 7 |
| 15 | Order, Disorder and Criticality. , 2020, , . | | 1 |
| 16 | Public transportation in Great Britain viewed as a complex network. <i>Transportmetrica A: Transport Science</i> , 2019, 15, 722-748. | 1.3 | 18 |
| 17 | Universal shape characteristics for the mesoscopic star-shaped polymer via dissipative particle dynamics simulations. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 215101. | 0.7 | 6 |
| 18 | Classical phase transitions in a one-dimensional short-range spin model. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2018, 51, 505001. | 0.7 | 10 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Data Mining in Scientometrics: Usage Analysis for Academic Publications. , 2018, , . | | 4 |
| 20 | Bipartite Graph Analysis as an Alternative to Reveal Clusterization in Complex Systems. , 2018, , . | | 3 |
| 21 | Order, Disorder and Criticality. , 2018, , . | | 3 |
| 22 | Statistical physics of complex systems in the world and in Lviv. Journal of Physical Studies, 2018, 22, . | 0.2 | 4 |
| 23 | Complex-Network Approach for Visualizing and Quantifying the Evolution of a Scientific Topic. Advances in Human and Social Aspects of Technology Book Series, 2018, , 106-120. | 0.3 | 0 |
| 24 | Self-averaging in the random two-dimensional Ising ferromagnet. Physical Review E, 2017, 95, 032118. | 0.8 | 5 |
| 25 | Complex systems: physics beyond physics. European Journal of Physics, 2017, 38, 023002. | 0.3 | 62 |
| 26 | Analyses of a Virtual World. Understanding Complex Systems, 2017, , 115-130. | 0.3 | 1 |
| 27 | Complex Networks of Words in Fables. Understanding Complex Systems, 2017, , 159-175. | 0.3 | 6 |
| 28 | Exact solution of a classical short-range spin model with a phase transition in one dimension: The Potts model with invisible states. Physics Letters, Section A: General, Atomic and Solid State Physics, 2017, 381, 3589-3593. | 0.9 | 11 |
| 29 | The fate of Ernst Ising and the fate of his model. Journal of Physical Studies, 2017, 21, . | 0.2 | 18 |
| 30 | Marginal dimensions of the Potts model with invisible states. Journal of Physics A: Mathematical and Theoretical, 2016, 49, 255001. | 0.7 | 5 |
| 31 | Partition function zeros for the Ising model on complete graphs and on annealed scale-free networks. Journal of Physics A: Mathematical and Theoretical, 2016, 49, 135001. | 0.7 | 21 |
| 32 | Phase diagram of Model C in the parametric space of order parameter and space dimensions. Physical Review B, 2016, 93, . | 1.1 | 0 |
| 33 | Critical behavior of the two-dimensional Ising model with long-range correlated disorder. Physical Review B, 2016, 93, . | 1.1 | 13 |
| 34 | Universal shape characteristics for the mesoscopic polymer chain via dissipative particle dynamics. Journal of Physics Condensed Matter, 2016, 28, 505101. | 0.7 | 3 |
| 35 | Quantifying the evolution of a scientific topic: reaction of the academic community to the Chernobyl disaster. Scientometrics, 2016, 106, 1151-1166. | 1.6 | 23 |
| 36 | Monte Carlo study of anisotropic scaling generated by disorder. Physical Review E, 2015, 92, 042118. | 0.8 | 11 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Violation of Lee-Yang circle theorem for Ising phase transitions on complex networks. Europhysics Letters, 2015, 111, 60009. | 0.7 | 21 |
| 38 | Interevent time distributions of human multi-level activity in a virtual world. Physica A: Statistical Mechanics and Its Applications, 2015, 419, 681-690. | 1.2 | 16 |
| 39 | Predicting results of the research excellence framework using departmental h-index: revisited. Scientometrics, 2015, 104, 1013-1017. | 1.6 | 15 |
| 40 | Predicting results of the Research Excellence Framework using departmental h-index. Scientometrics, 2015, 102, 2165-2180. | 1.6 | 27 |
| 41 | Order, Disorder and Criticality. , 2015, , . | | 1 |
| 42 | Is your EPL attractive? Classification of publications through download statistics. Europhysics Letters, 2014, 108, 50011. | 0.7 | 4 |
| 43 | Universal free-energy distribution in the critical point of a random Ising ferromagnet. Physical Review E, 2014, 90, 052126. | 0.8 | 2 |
| 44 | Comparison of a citation-based indicator and peer review for absolute and specific measures of research-group excellence. Scientometrics, 2013, 97, 767-777. | 1.6 | 27 |
| 45 | Fractal transit networks: Self-avoiding walks and Lévy flights. European Physical Journal: Special Topics, 2013, 216, 49-55. | 1.2 | 9 |
| 46 | Absolute and specific measures of research group excellence. Scientometrics, 2013, 95, 115-127. | 1.6 | 18 |
| 47 | From Brownian motion to self-avoiding walks and Lévy flights. European Physical Journal: Special Topics, 2013, 216, 1-2. | 1.2 | 0 |
| 48 | TRANSPORTATION NETWORK STABILITY: A CASE STUDY OF CITY TRANSIT. International Journal of Modeling, Simulation, and Scientific Computing, 2012, 15, 1250063. | 0.9 | 35 |
| 49 | Field theory of bicritical and tetracritical points. IV. Critical dynamics including reversible terms. Physical Review E, 2012, 85, 021143. | 0.8 | 1 |
| 50 | Editorial process in scientific journals: analysis and modeling. Scientometrics, 2012, 91, 101-112. | 1.6 | 8 |
| 51 | Order, Disorder and Criticality. , 2012, , . | | 3 |
| 52 | Proportionate vs disproportionate distribution of wealth of two individuals in a tempered Paretian ensemble. Physica A: Statistical Mechanics and Its Applications, 2011, 390, 4340-4346. | 1.2 | 14 |
| 53 | Star copolymers in porous environments: Scaling and its manifestations. Physical Review E, 2011, 83, 011803. | 0.8 | 6 |
| 54 | Entropic equation of state and scaling functions near the critical point in uncorrelated scale-free networks. Physical Review E, 2011, 83, 061114. | 0.8 | 3 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 55 | Universal features of polymer shapes in crowded environments. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2010, 374, 2861-2864. | 0.9 | 9 |
| 56 | Relevance of the fixed dimension perturbative approach to frustrated magnets in two and three dimensions. <i>Physical Review B</i> , 2010, 82, . | 1.1 | 25 |
| 57 | Spin vortices and vacancies: Interactions and pinning on a square lattice. <i>Physical Review B</i> , 2010, 81, . | 1.1 | 0 |
| 58 | Critical phenomena on scale-free networks: Logarithmic corrections and scaling functions. <i>Physical Review E</i> , 2010, 82, 011145. | 0.8 | 11 |
| 59 | Biconical critical dynamics. <i>Europhysics Letters</i> , 2010, 91, 46002. | 0.7 | 1 |
| 60 | Publisher's Note: Field theory of bicritical and tetracritical points. III. Relaxational dynamics including conservation of magnetization (model C) [<i>Phys. Rev. E</i> 79, 031109 (2009)]. <i>Physical Review E</i> , 2009, 79, . | 0.8 | 0 |
| 61 | Coupled order-parameter system on a scale-free network. <i>Physical Review E</i> , 2009, 80, 011108. | 0.8 | 4 |
| 62 | Public transport networks: empirical analysis and modeling. <i>European Physical Journal B</i> , 2009, 68, 261-275. | 0.6 | 238 |
| 63 | Resilience of public transport networks against attacks. <i>European Physical Journal B</i> , 2009, 71, 125-137. | 0.6 | 203 |
| 64 | Field theory of bicritical and tetracritical points. III. Relaxational dynamics including conservation of magnetization (model C). <i>Physical Review E</i> , 2009, 79, 031109. | 0.8 | 4 |
| 65 | Network harness: bundles of routes in public transport networks. , 2009, , . | | 2 |
| 66 | The quenched-disordered Ising model in two and four dimensions. <i>AIP Conference Proceedings</i> , 2009, , . | 0.3 | 12 |
| 67 | Modeling Metropolis Public Transport. , 2009, , 709-719. | | 10 |
| 68 | Attack Vulnerability of Public Transport Networks. , 2009, , 721-731. | | 13 |
| 69 | Interplay of topological and structural defects in the two-dimensional XY model. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2008, 372, 5716-5721. | 0.9 | 7 |
| 70 | On the universality class of the 3d Ising model with long-range-correlated disorder. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2008, 387, 4497-4512. | 1.2 | 11 |
| 71 | Field theory of bicritical and tetracritical points. I. Statics. <i>Physical Review E</i> , 2008, 78, 041124. | 0.8 | 28 |
| 72 | Fixed points in frustrated magnets revisited. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2008, 2008, P03014. | 0.9 | 11 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 73 | Scaling of complex polymers: New universality classes and beyond. Philosophical Magazine, 2008, 88, 4085-4091. | 0.7 | 1 |
| 74 | Field theory of bicritical and tetracritical points. II. Relaxational dynamics. Physical Review E, 2008, 78, 041125. | 0.8 | 9 |
| 75 | STAR POLYMERS IN CORRELATED DISORDER. , 2008, , . | | 0 |
| 76 | Quasi-long-range ordering in a finite-size 2D classical Heisenberg model. Journal of Physics A: Mathematical and Theoretical, 2007, 40, 3741-3748. | 0.7 | 12 |
| 77 | Model C critical dynamics of random anisotropy magnets. Journal of Physics A: Mathematical and Theoretical, 2007, 40, 8247-8264. | 0.7 | 4 |
| 78 | Network harness: Metropolis public transport. Physica A: Statistical Mechanics and Its Applications, 2007, 380, 585-591. | 1.2 | 78 |
| 79 | The 2D XY model on a finite lattice with structural disorder: quasi-long-range ordering under realistic conditions. European Physical Journal B, 2007, 56, 93-105. | 0.6 | 13 |
| 80 | Perturbation expansion for the diluted two-dimensional XY model. Physics Letters, Section A: General, Atomic and Solid State Physics, 2007, 366, 150-154. | 0.9 | 2 |
| 81 | Model C critical dynamics of disordered magnets. Journal of Physics A, 2006, 39, 7943-7961. | 1.6 | 2 |
| 82 | Entropy-induced separation of star polymers in porous media. Physical Review E, 2006, 74, 031801. | 0.8 | 7 |
| 83 | Enhancement of the critical slowing down influenced by extended defects. Journal of Molecular Liquids, 2006, 127, 60-61. | 2.3 | 2 |
| 84 | Static and dynamic critical behaviour of 3d random-site Ising model: Different Monte Carlo algorithms. Journal of Molecular Liquids, 2006, 127, 69-70. | 2.3 | 2 |
| 85 | Local and cluster critical dynamics of the 3d random-site Ising model. Physica A: Statistical Mechanics and Its Applications, 2006, 370, 163-178. | 1.2 | 15 |
| 86 | Complex networks. Journal of Physical Studies, 2006, 10, 247-289. | 0.2 | 17 |
| 87 | Critical properties of random anisotropy magnets. Journal of Magnetism and Magnetic Materials, 2005, 294, 305-329. | 1.0 | 42 |
| 88 | Critical dynamics and effective exponents of magnets with extended impurities. Physical Review B, 2005, 72, . | 1.1 | 15 |
| 89 | Renormalization group approaches to polymers in disordered media. , 2005, , 103-147. | | 2 |
| 90 | Critical dynamics of diluted relaxational models coupled to a conserved density. Physical Review E, 2005, 72, 036107. | 0.8 | 5 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 91 | Criticality of the random-site Ising model: Metropolis, Swendsen-Wang and Wolff Monte Carlo algorithms. Condensed Matter Physics, 2005, 8, 149-162. | 0.3 | 14 |
| 92 | Scaling in public transport networks. Condensed Matter Physics, 2005, 8, 225-234. | 0.3 | 32 |
| 93 | Fluctuations and criticality (dedicated to Reinhard Folk on his 60th birthday). Condensed Matter Physics, 2005, 8, 3-10. | 0.3 | 0 |
| 94 | Scaling of star polymers: high order results. Physics Letters, Section A: General, Atomic and Solid State Physics, 2004, 328, 335-340. | 0.9 | 7 |
| 95 | On the criticality of frustrated spin systems with noncollinear order. Journal of Physics A, 2004, 37, 3569-3575. | 1.6 | 31 |
| 96 | Where two fractals meet: The scaling of a self-avoiding walk on a percolation cluster. Physical Review E, 2004, 70, 035104. | 0.8 | 22 |
| 97 | Universality classes of the three-dimensional n -vector model. Journal of Physics A, 2004, 37, 10727-10734. | 1.6 | 15 |
| 98 | Order, Disorder and Criticality. , 2004, , . | | 9 |
| 99 | Influence of quenched dilution on the quasi-long-range ordered phase of the \mathbb{Z}_2 \mathbb{Z}_N model. European Physical Journal B, 2003, 36, 91-98. | 0.6 | 45 |
| 100 | On the critical properties of the three-dimensional random Ising model. Journal of Molecular Liquids, 2003, 105, 221-225. | 2.3 | 2 |
| 101 | Effective critical behaviour of diluted Heisenberg-like magnets. Journal of Magnetism and Magnetic Materials, 2003, 256, 243-251. | 1.0 | 35 |
| 102 | Critical behavior of magnetic systems with extended impurities in general dimensions. Physical Review B, 2003, 67, . | 1.1 | 18 |
| 103 | Critical exponents of a three-dimensional weakly diluted quenched Ising model. Physics-Uspokhi, 2003, 46, 169-191. | 0.8 | 85 |
| 104 | Change in polymer scaling laws due to disorder. Journal of Physics Condensed Matter, 2002, 14, 9465-9468. | 0.7 | 4 |
| 105 | WEAK QUENCHED DISORDER AND CRITICALITY: RESUMMATION OF ASYMPTOTIC(?) SERIES. International Journal of Modern Physics B, 2002, 16, 4027-4079. | 1.0 | 30 |
| 106 | Two-dimensional copolymers and multifractality: Comparing perturbative expansions, Monte Carlo simulations, and exact results. Physical Review E, 2002, 65, 042801. | 0.8 | 8 |
| 107 | Title is missing!. Journal of Statistical Physics, 2002, 107, 1303-1304. | 0.5 | 9 |
| 108 | Polymers in long-range-correlated disorder. Physical Review E, 2001, 64, 041102. | 0.8 | 36 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 109 | Polymers in media with long-range-correlated quenched disorder. Journal of Molecular Liquids, 2001, 92, 77-84. | 2.3 | 19 |
| 110 | Colloids with polymer stars: the interaction. Journal of Molecular Liquids, 2001, 93, 151-154. | 2.3 | 8 |
| 111 | Diffusion-controlled reactions in presence of polymers. Journal of Molecular Liquids, 2001, 93, 155-158. | 2.3 | 2 |
| 112 | PHASE TRANSITION IN THE RANDOM ANISOTROPY MODEL. , 2001, , 457-467. | | 3 |
| 113 | A marginal dimension of a weakly diluted quenched m-vector model. Journal of Physical Studies, 2001, 5, 233-239. | 0.2 | 18 |
| 114 | A three-dimensional random Ising model: Resummation of five-loop series. Journal of Physical Studies, 2001, 5, 261-267. | 0.2 | 4 |
| 115 | Pseudo- ϵ -expansion of six-loop renormalization-group functions of an anisotropic cubic model. Physical Review B, 2000, 62, 12195-12200. | 1.1 | 47 |
| 116 | Effective and asymptotic critical exponents of a weakly diluted quenched Ising model: Three-dimensional approach versus ϵ -expansion. Physical Review B, 2000, 61, 15114-15129. | 1.1 | 69 |
| 117 | Multifractality of Brownian motion near absorbing polymers. Physical Review E, 1999, 59, 6914-6923. | 0.8 | 23 |
| 118 | The correction-to-scaling exponent in dilute systems. JETP Letters, 1999, 69, 747-752. | 0.4 | 18 |
| 119 | Critical Fluctuations in Normal-to-Superconducting Transition. , 1999, , 83-116. | | 4 |
| 120 | Critical Exponents of the Diluted Ising Model between Dimensions 2 and 4. Journal of Statistical Physics, 1998, 92, 785-808. | 0.5 | 21 |
| 121 | Copolymer networks: the spectrum of scaling dimensions. Physica A: Statistical Mechanics and Its Applications, 1998, 249, 327-331. | 1.2 | 8 |
| 122 | Five-loop critical exponents of the weakly diluted Ising model: 3D approach versus $\hat{\mu}$ -expansion. Journal of Physical Studies, 1998, 2, 213-220. | 0.2 | 12 |
| 123 | Copolymer networks: Multifractal dimension spectra in polymer field theory. Europhysics Letters, 1997, 39, 31-36. | 0.7 | 28 |
| 124 | Copolymer networks and stars: Scaling exponents. Physical Review E, 1997, 56, 6370-6386. | 0.8 | 41 |
| 125 | Renormalization group study of the m-vector model between two and four dimensions. Ferroelectrics, 1997, 192, 55-59. | 0.3 | 3 |
| 126 | On the critical fluctuations in superconductors. Journal of Physics A, 1996, 29, 3409-3425. | 1.6 | 47 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 127 | Polymer stars in three dimensions. Three-loop results. Theoretical and Mathematical Physics(Russian) Tj ETQq1 1 0.784314 rgBT /Overlo | 0.3 | 8 |
| 128 | Critical behaviour in non-integer dimension. , 1996, , 269-281. | | 1 |
| 129 | Compilation of twoâ€point and fourâ€point graphs in field theory in noninteger dimensions. Journal of Mathematical Physics, 1994, 35, 3866-3880. | 0.5 | 12 |
| 130 | Critical exponents of Ising-like systems in general dimensions. Theoretical and Mathematical Physics(Russian Federation), 1993, 96, 1099-1109. | 0.3 | 14 |
| 131 | PHASE TRANSITION IN CONTINUOUS SYMMETRY MODEL IN GENERAL DIMENSIONS â€” FIXED DIMENSION RENORMALIZATION GROUP APPROACH. International Journal of Modern Physics A, 1993, 08, 5329-5351. | 0.5 | 7 |
| 132 | Critical exponents of random Ising-like systems in general dimensions. Journal of Statistical Physics, 1992, 66, 867-883. | 0.5 | 30 |