

Sergei N Taraskin

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/2436901/sergei-n-taraskin-publications-by-year.pdf>

Version: 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

52
papers

1,317
citations

19
h-index

36
g-index

54
ext. papers

1,394
ext. citations

3.3
avg, IF

4.24
L-index

#	Paper	IF	Citations
52	Quasilocalized Vibrations in Vitreous Silica. <i>Physica Status Solidi (B): Basic Research</i> , 2020 , 258, 2000422	1.3	
51	Phonon traces in glassy vibrations. <i>Physical Review B</i> , 2020 , 102,	3.3	1
50	A single-walker approach for studying quasi-nonergodic systems. <i>Scientific Reports</i> , 2017 , 7, 2242	4.9	
49	Explosive Contagion in Networks. <i>Scientific Reports</i> , 2016 , 6, 19767	4.9	45
48	Addendum and Erratum: Nature of vibrational excitations in vitreous silica [Phys. Rev. B 56, 8605 (1997)]. <i>Physical Review B</i> , 2016 , 94,	3.3	4
47	Effects of local and global network connectivity on synergistic epidemics. <i>Physical Review E</i> , 2015 , 92, 062814	2.4	13
46	Effect of disorder on condensation in the lattice gas model on a random graph. <i>Physical Review E</i> , 2014 , 90, 012144	2.4	2
45	Zero-temperature random-field Ising model on a bilayered Bethe lattice. <i>Physical Review E</i> , 2013 , 88, 022117	2.4	1
44	Mechanisms of evolution of avalanches in regular graphs. <i>Physical Review E</i> , 2013 , 87, 062122	2.4	11
43	Effects of variable-state neighborhoods for spreading synergistic processes on lattices. <i>Physical Review E</i> , 2013 , 88, 062815	2.4	9
42	Capillary condensation in one-dimensional irregular confinement. <i>Physical Review E</i> , 2013 , 88, 012139	2.4	8
41	Steady-state random walk on connected graph of arbitrary topology with random and non-symmetric transition rates. <i>Physica Status Solidi (B): Basic Research</i> , 2013 , 250, 1028-1028	1.3	
40	Steady-state random walk on connected graph of arbitrary topology with random and non-symmetric transition rates. <i>Physica Status Solidi (B): Basic Research</i> , 2013 , 250, 1029-1043	1.3	1
39	Exact spin-spin correlation function for the zero-temperature random-field Ising model. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2012 , 2012, P01001	1.9	5
38	Prominent effect of soil network heterogeneity on microbial invasion. <i>Physical Review Letters</i> , 2012 , 109, 098102	7.4	28
37	Heterogeneity in susceptible-infected-removed (SIR) epidemics on lattices. <i>Journal of the Royal Society Interface</i> , 2011 , 8, 201-9	4.1	28
36	Atomic charge distribution in sodosilicate glasses from terahertz time-domain spectroscopy. <i>Physical Review B</i> , 2010 , 82,	3.3	21

35	The two-mutant problem: clonal interference in evolutionary graph theory. <i>Journal of Chemical Biology</i> , 2010 , 3, 189-94		3
34	The atomic charge distribution in glasses obtained by terahertz spectroscopy. <i>Journal of Physics Condensed Matter</i> , 2007 , 19, 455216	1.8	4
33	Infrared absorption in glasses and their crystalline counterparts. <i>Journal of Physics Condensed Matter</i> , 2007 , 19, 415113	1.8	5
32	Connection between structural characteristics of glasses and their crystalline counterparts. <i>Journal of Physics Condensed Matter</i> , 2007 , 19, 455215	1.8	2
31	Temporal and dimensional effects in evolutionary graph theory. <i>Physical Review Letters</i> , 2007 , 98, 098103	3.4	16
30	Universal features of terahertz absorption in disordered materials. <i>Physical Review Letters</i> , 2006 , 97, 055504	7.4	75
29	Real and reciprocal space structural correlations contributing to the first sharp diffraction peak in silica glass. <i>Physical Review B</i> , 2005 , 71,	3.3	25
28	Extinction of epidemics in lattice models with quenched disorder. <i>Physical Review E</i> , 2005 , 72, 016111	2.4	3
27	Statistical properties of the critical eigenstates in power-law random banded matrices across the band. <i>Physical Review B</i> , 2005 , 72,	3.3	1
26	Spectral properties of disordered fully connected graphs. <i>Physical Review E</i> , 2005 , 72, 056126	2.4	2
25	Universal features of localized eigenstates in disordered systems. <i>Journal of Physics Condensed Matter</i> , 2005 , 17, L321-L327	1.8	34
24	Atomic vibrations in disordered systems: Comparison of disordered diamond lattices and a realistic amorphous silicon model. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2004 , 1, 2904-2907		2
23	Disorder-induced vibrational localization. <i>Physical Review B</i> , 2003 , 67,	3.3	26
22	Spatial decay of the single-particle density matrix in tight-binding metals: Analytic results in two dimensions. <i>Physical Review B</i> , 2002 , 66,	3.3	19
21	Spatial decay of the single-particle density matrix in insulators: analytic results in two and three dimensions. <i>Physical Review Letters</i> , 2002 , 88, 196405	7.4	25
20	Nature of vibrational eigenmodes in topologically disordered solids. <i>Physical Review B</i> , 2002 , 65,	3.3	15
19	Propagation, hybridization and localization of vibrational excitations in disordered materials. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 2002 , 82, 197-208		7
18	Disorder-induced zero-energy spectral singularity for random matrices with correlations. <i>Physical Review B</i> , 2002 , 65,	3.3	13

17	Vector vibrations and the Ioffe-Regel crossover in disordered lattices. <i>Journal of Physics Condensed Matter</i> , 2002 , 14, 3143-3166	1.8	22
16	Spectral density of vibrational excitations in lattices with force-constant disorder. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 2001 , 81, 1263-1272		1
15	Origin of the boson peak in systems with lattice disorder. <i>Physical Review Letters</i> , 2001 , 86, 1255-8	7.4	229
14	Fast time-evolution method for dynamical systems. <i>Physical Review Letters</i> , 2000 , 84, 2290-3	7.4	26
13	Propagation of plane-wave vibrational excitations in disordered systems. <i>Physical Review B</i> , 2000 , 61, 12017-12030	3.3	54
12	Vibrational properties of the one-component ϕ phase. <i>Physical Review B</i> , 2000 , 62, 3223-3231	3.3	22
11	Determination of the Ioffe-Regel limit for vibrational excitations in disordered materials. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1999 , 79, 1747-1754		7
10	Pressure-Induced Delocalization of Charge Carriers (Insulator-Metal Transition) and Magnetic Transformation in Glassy Semiconductors. <i>Physica Status Solidi (B): Basic Research</i> , 1999 , 211, 501-506	1.3	0
9	Anharmonicity and localization of atomic vibrations in vitreous silica. <i>Physical Review B</i> , 1999 , 59, 8572-8585	3.3	106
8	The vibrational spectrum of amorphous materials obtained by the use of an Anderson-like Hamiltonian. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1999 , 79, 1755-1761		2
7	The dispersion of vibrational excitations in vitreous silica. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1998 , 77, 403-420		9
6	Connection between the true vibrational density of states and that derived from inelastic neutron scattering. <i>Physical Review B</i> , 1997 , 55, 117-123	3.3	79
5	Nature of vibrational excitations in vitreous silica. <i>Physical Review B</i> , 1997 , 56, 8605-8622	3.3	203
4	Phonons in vitreous silica: Dispersion and localization. <i>Europhysics Letters</i> , 1997 , 39, 37-42	1.6	78
3	Strong two-band electron self-trapping, state hybridization effects and related pressure-induced phenomena in semiconductors 1995 , 402-426		
2	Strong self-trapping in semiconducting two-band systems. <i>Physical Review B</i> , 1993 , 47, 10235-10243	3.3	14
1	Propagation, hybridization and localization of vibrational excitations in disordered materials		11