

Sergei N Taraskin

List of Publications by Citations

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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	Origin of the boson peak in systems with lattice disorder. <i>Physical Review Letters</i> , 2001 , 86, 1255-8	7.4	229
51	Nature of vibrational excitations in vitreous silica. <i>Physical Review B</i> , 1997 , 56, 8605-8622	3.3	203
50	Anharmonicity and localization of atomic vibrations in vitreous silica. <i>Physical Review B</i> , 1999 , 59, 8572-8585	3.3	106
49	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
48	Phonons in vitreous silica: Dispersion and localization. <i>Europhysics Letters</i> , 1997 , 39, 37-42	1.6	78
47	Universal features of terahertz absorption in disordered materials. <i>Physical Review Letters</i> , 2006 , 97, 055504	7.4	75
46	Propagation of plane-wave vibrational excitations in disordered systems. <i>Physical Review B</i> , 2000 , 61, 12017-12030	3.3	54
45	Explosive Contagion in Networks. <i>Scientific Reports</i> , 2016 , 6, 19767	4.9	45
44	Universal features of localized eigenstates in disordered systems. <i>Journal of Physics Condensed Matter</i> , 2005 , 17, L321-L327	1.8	34
43	Heterogeneity in susceptible-infected-removed (SIR) epidemics on lattices. <i>Journal of the Royal Society Interface</i> , 2011 , 8, 201-9	4.1	28
42	Prominent effect of soil network heterogeneity on microbial invasion. <i>Physical Review Letters</i> , 2012 , 109, 098102	7.4	28
41	Disorder-induced vibrational localization. <i>Physical Review B</i> , 2003 , 67,	3.3	26
40	Fast time-evolution method for dynamical systems. <i>Physical Review Letters</i> , 2000 , 84, 2290-3	7.4	26
39	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
38	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
37	Vector vibrations and the Ioffe-Regel crossover in disordered lattices. <i>Journal of Physics Condensed Matter</i> , 2002 , 14, 3143-3166	1.8	22
36	Vibrational properties of the one-component ϕ phase. <i>Physical Review B</i> , 2000 , 62, 3223-3231	3.3	22

35	Atomic charge distribution in sodosilicate glasses from terahertz time-domain spectroscopy. <i>Physical Review B</i> , 2010 , 82,	3.3	21
34	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
33	Temporal and dimensional effects in evolutionary graph theory. <i>Physical Review Letters</i> , 2007 , 98, 098103.	3.4	16
32	Nature of vibrational eigenmodes in topologically disordered solids. <i>Physical Review B</i> , 2002 , 65,	3.3	15
31	Strong self-trapping in semiconducting two-band systems. <i>Physical Review B</i> , 1993 , 47, 10235-10243	3.3	14
30	Effects of local and global network connectivity on synergistic epidemics. <i>Physical Review E</i> , 2015 , 92, 062814	2.4	13
29	Disorder-induced zero-energy spectral singularity for random matrices with correlations. <i>Physical Review B</i> , 2002 , 65,	3.3	13
28	Mechanisms of evolution of avalanches in regular graphs. <i>Physical Review E</i> , 2013 , 87, 062122	2.4	11
27	Propagation, hybridization and localization of vibrational excitations in disordered materials		11
26	Effects of variable-state neighborhoods for spreading synergistic processes on lattices. <i>Physical Review E</i> , 2013 , 88, 062815	2.4	9
25	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
24	Capillary condensation in one-dimensional irregular confinement. <i>Physical Review E</i> , 2013 , 88, 012139	2.4	8
23	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
22	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
21	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
20	Infrared absorption in glasses and their crystalline counterparts. <i>Journal of Physics Condensed Matter</i> , 2007 , 19, 415113	1.8	5
19	The atomic charge distribution in glasses obtained by terahertz spectroscopy. <i>Journal of Physics Condensed Matter</i> , 2007 , 19, 455216	1.8	4
18	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

17	The two-mutant problem: clonal interference in evolutionary graph theory. <i>Journal of Chemical Biology</i> , 2010 , 3, 189-94			3
16	Extinction of epidemics in lattice models with quenched disorder. <i>Physical Review E</i> , 2005 , 72, 016111	2.4		3
15	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
14	Connection between structural characteristics of glasses and their crystalline counterparts. <i>Journal of Physics Condensed Matter</i> , 2007 , 19, 455215	1.8		2
13	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
12	Spectral properties of disordered fully connected graphs. <i>Physical Review E</i> , 2005 , 72, 056126	2.4		2
11	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
10	Zero-temperature random-field Ising model on a bilayered Bethe lattice. <i>Physical Review E</i> , 2013 , 88, 022117	2.4		1
9	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
8	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
7	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
6	Phonon traces in glassy vibrations. <i>Physical Review B</i> , 2020 , 102,	3.3		1
5	Pressure-Induced Delocalization of Charge Carriers (InsulatorMetalTransition) and Magnetic Transformation in Glassy Semiconductors. <i>Physica Status Solidi (B): Basic Research</i> , 1999 , 211, 501-506	1.3		0
4	Quasilocalized Vibrations in Vitreous Silica. <i>Physica Status Solidi (B): Basic Research</i> , 2020 , 258, 2000422	1.3		
3	A single-walker approach for studying quasi-nonergodic systems. <i>Scientific Reports</i> , 2017 , 7, 2242	4.9		
2	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		
1	Strong two-band electron self-trapping, state hybridization effects and related pressure-induced phenomena in semiconductors 1995 , 402-426			