Dima L. Shepelyansky

List of Publications by Citations

230 papers	7,351 citations	44 h-index	76 g-index
235 ext. papers	7,823 ext. citations	3.5 avg, IF	6.18 L-index

#	Paper	IF	Citations
230	Relevance of classical chaos in quantum mechanics: The hydrogen atom in a monochromatic field. *Physics Reports*, **1987**, 154, 77-123	27.7	331
229	Destruction of Anderson localization by a weak nonlinearity. *Physical Review Letters*, **2008**, 100, 094101	7.4	299
228	Coherent propagation of two interacting particles in a random potential. *Physical Review Letters*, **1994**, 73, 2607-2610	7.4	279
227	Correlation properties of dynamical chaos in Hamiltonian systems. *Physica D: Nonlinear Phenomena*, **1984**, 13, 395-400	3.3	260
226	Hydrogen atom in monochromatic field: chaos and dynamical photonic localization. *IEEE Journal of Quantum Electronics*, **1988**, 24, 1420-1444	2	214
225	Quantum resonance for a rotator in a nonlinear periodic field. *Theoretical and Mathematical Physics(Russian Federation)*, **1980**, 43, 553-561	0.7	179
224	Quantum Limitations for Chaotic Excitation of the Hydrogen Atom in a Monochromatic Field. *Physical Review Letters*, **1984**, 53, 2525-2528	7.4	174
223	Emergence of Quantum Chaos in Finite Interacting Fermi Systems. *Physical Review Letters*, **1997**, 79, 1837-1840	7.4	166
222	Delocalization of quantum chaos by weak nonlinearity. *Physical Review Letters*, **1993**, 70, 1787-1790	7.4	160
221	Localization of diffusive excitation in multi-level systems. *Physica D: Nonlinear Phenomena*, **1987**, 28, 103-114	3.3	157
220	Localization of quasienergy eigenfunctions in action space. *Physical Review Letters*, **1986**, 56, 677-680	7.4	143
219	Anderson transition in a one-dimensional system with three incommensurate frequencies. *Physical Review Letters*, **1989**, 62, 345-348	7.4	136
218	Some statistical properties of simple classically stochastic quantum systems. *Physica D: Nonlinear Phenomena*, **1983**, 8, 208-222	3.3	134
217	Quantum chaos: Localization vs. ergodicity. *Physica D: Nonlinear Phenomena*, **1988**, 33, 77-88	3.3	131
216	Quantum chaos border for quantum computing. *Physical Review E*, **2000**, 62, 3504-7	2.4	128
215	Dynamical stability of quantum "chaotic" motion in a hydrogen atom. *Physical Review Letters*, **1986**, 56, 2437-2440	7.4	125
214	Emergence of quantum chaos in the quantum computer core and how to manage it. *Physical Review E*, **2000**, 62, 6366-75	2.4	107

213	Fast delocalization in a model of quantum kicked rotator. *Physical Review Letters*, **1991**, 67, 1377-1380	7.4	93
212	Delocalization induced by nonlinearity in systems with disorder. *Physical Review E*, **2009**, 79, 026205	2.4	82
211	Highly-excited atoms in the electromagnetic field. *Uspekhi Fizicheskikh Nauk*, **1983**, 140, 355	0.5	78
210	Quantum Localization in Rough Billiards. *Physical Review Letters*, **1997**, 78, 1440-1443	7.4	75
209	Asymptotic Statistics of Poincar Recurrences in Hamiltonian Systems with Divided Phase Space. *Physical Review Letters*, **1999**, 82, 528-531	7.4	74
208	Google matrix analysis of directed networks. *Reviews of Modern Physics*, **2015**, 87, 1261-1310	40.5	73
207	New photoelectric ionization peak in the hydrogen atom. *Physical Review Letters*, **1986**, 57, 823-826	7.4	70
206	Microwave stabilization of edge transport and zero-resistance states. *Physical Review B*, **2009**, 80,	3.3	69
205	Efficient quantum computing of complex dynamics. *Physical Review Letters*, **2001**, 87, 227901	7.4	69
204	Fractal spectrum and anomalous diffusion in the kicked Harper model. *Physical Review Letters*, **1992** , 68, 3826-3829	7.4	67
203	Hidden Breit-Wigner distribution and other properties of random matrices with preferential basis. *Physical Review Letters*, **1995**, 75, 3501-3504	7.4	65
202	Quantum ratchets in dissipative chaotic systems. *Physical Review Letters*, **2005**, 94, 164101	7.4	64
201	Exponential gain in quantum computing of quantum chaos and localization. *Physical Review Letters*, **2001**, 86, 2890-3	7.4	59
200	Integrability and Quantum Chaos in Spin Glass Shards. *Physical Review Letters*, **1998**, 81, 5129-5132	7.4	58
199	Breit-Wigner Width and Inverse Participation Ratio in Finite Interacting Fermi Systems. *Physical Review Letters*, **1997**, 79, 4365-4368	7.4	57
198	Exponential photonic localization for the hydrogen atom in a monochromatic field. *Physical Review A*, **1987**, 36, 3501-3504	2.6	57
197	Frenkel-Kontorova model with cold trapped ions. *European Physical Journal D*, **2007**, 41, 325-330	1.3	56
196	Dynamical thermalization of disordered nonlinear lattices. *Physical Review E*, **2009**, 80, 056212	2.4	55

195	Statistics of quantum lifetimes in a classically chaotic system. *Physical Review A*, **1991**, 43, 4517-4520	2.6	52
194	Quantum Poincar Recurrences. *Physical Review Letters*, **1999**, 82, 524-527	7.4	51
193	Two-dimensional ranking of Wikipedia articles. *European Physical Journal B*, **2010**, 77, 523-531	1.2	50
192	Synchronization and bistability of a qubit coupled to a driven dissipative oscillator. *Physical Review Letters*, **2008**, 100, 014101	7.4	50
191	Low-energy chaos in the Fermi - Pasta - Ulam problem. *Nonlinearity*, **1997**, 10, 1331-1338	1.7	48
190	Chaotic Landau level mixing in classical and quantum wells. *Physical Review Letters*, **1995**, 74, 2098-2101	7.4	47
189	Classical chaos, quantum localization and fluctuations: A unified view. *Physica A: Statistical Mechanics and Its Applications*, **1990**, 163, 205-214	3.3	45
188	Quantum synchronization and entanglement of two qubits coupled to a driven dissipative resonator. *Physical Review B*, **2009**, 80,	3.3	44
187	Quantum chaos and random matrix theory for fidelity decay in quantum computations with static imperfections. *European Physical Journal D*, **2004**, 29, 139-155	1.3	44
186	Towards a synchronization theory of microwave-induced zero-resistance states. *Physical Review B*, **2013**, 88,	3.3	43
185	Stability of Rydberg atoms in a strong laser field. *Physical Review A*, **1992**, 45, R7670-R7673	2.6	43
184	Dynamical localization in Josephson junctions. *Physical Review Letters*, **1991**, 67, 255-258	7.4	42
183	Strong and Weak Chaos in Weakly Nonintegrable Many-Body Hamiltonian Systems. *Journal of Statistical Physics*, **2011**, 145, 1256-1274	1.5	41
182	Emergence of Fermi-Dirac thermalization in the quantum computer core. *European Physical Journal D*, **2001**, 17, 265-272	1.3	39
181	Theory of resonant photon drag in monolayer graphene. *Physical Review B*, **2010**, 81,	3.3	38
180	Fractal Weyl law for quantum fractal eigenstates. *Physical Review E*, **2008**, 77, 015202	2.4	38
179	Quantum computing of delocalization in small-world networks. *Physical Review E*, **2005**, 72, 036203	2.4	38
178	Relaxation process in a regime of quantum chaos. *Physical Review E*, **1997**, 56, R6233-R6236	2.4	36

177	Emergence of Quantum Ergodicity in Rough Billiards. *Physical Review Letters*, **1997**, 79, 1833-1836	7.4	36
176	Shnirelman Peak in Level Spacing Statistics. *Physical Review Letters*, **1995**, 74, 518-521	7.4	35
175	Synchronization, zero-resistance states and rotating Wigner crystal. *European Physical Journal B*, **2007**, 60, 225-229	1.2	33
174	Entanglement versus relaxation and decoherence in a quantum algorithm for quantum chaos. *Physical Review A*, **2003**, 67,	2.6	32
173	A quantum transition from localized to extended states in a classically chaotic system. *European Physical Journal B*, **1991**, 84, 159-163	1.2	32
172	Interactions of cultures and top people of Wikipedia from ranking of 24 language editions. *PLoS ONE*, **2015**, 10, e0114825	3.7	31
171	Stable quantum computation of unstable classical chaos. *Physical Review Letters*, **2001**, 86, 5393-6	7.4	31
170	Quantum fractal eigenstates. *Physica D: Nonlinear Phenomena*, **1999**, 131, 311-316	3.3	31
169	Classical stabilization of the hydrogen atom in a monochromatic field. *Physical Review A*, **1993**, 47, R786-R789	2.6	31
168	Chaotic autoionization of molecular Rydberg states. *Physical Review Letters*, **1994**, 72, 1818-1821	7.4	31
167	Manifestations of classical and quantum chaos in nonlinear wave propagation. *Physical Review A*, **1991**, 44, R3423-R3426	2.6	31
166	Spectral properties of the Google matrix of the World Wide Web and other directed networks. *Physical Review E*, **2010**, 81, 056109	2.4	30
165	Delocalization transition for the Google matrix. *Physical Review E*, **2009**, 80, 026107	2.4	30
164	Ulam method and fractal Weyl law for Perron-Frobenius operators. *European Physical Journal B*, **2010**, 75, 299-304	1.2	30
163	Ulam method for the Chirikov standard map. *European Physical Journal B*, **2010**, 76, 57-68	1.2	30
162	Quantum computing of quantum chaos and imperfection effects. *Physical Review Letters*, **2001**, 86, 2162-5	7.4	30
161	Localization of diffusive excitation in the two-dimensional hydrogen atom in a monochromatic field. *Physical Review Letters*, **1987**, 59, 2927-2930	7.4	30
160	Two Interacting Quasiparticles Above the Fermi Sea. *Physical Review Letters*, **1997**, 78, 4986-4989	7.4	29

159	Quantum synchronization. *European Physical Journal D*, **2006**, 38, 375-379	1.3	29
158	Photogalvanic current in artificial asymmetric nanostructures. *European Physical Journal B*, **2007**, 56, 323-333	1.2	28
157	Quantum computing of quantum chaos in the kicked rotator model. *Physical Review E*, **2003**, 67, 046220	2.4	28
156	Dynamical localization simulated on a few-qubit quantum computer. *Physical Review A*, **2003**, 67,	2.6	28
155	Enhancement of localization length for two interacting kicked rotators. *Nonlinearity*, **1995**, 8, 877-890	1.7	28
154	PageRank model of opinion formation on social networks. *Physica A: Statistical Mechanics and Its Applications*, **2012**, 391, 5779-5793	3.3	26
153	Few interacting particles in a random potential. *Europhysics Letters*, **1997**, 37, 121-126	1.6	26
152	Poincar recurrences in Hamiltonian systems with a few degrees of freedom. *Physical Review E*, **2010**, 82, 055202	2.4	25
151	Particle propagation in a random and quasi-periodic potential. *Physica D: Nonlinear Phenomena*, **1997**, 109, 24-31	3.3	25
150	Breakdown of Universality in Renormalization Dynamics for Critical Invariant Torus. *Europhysics Letters*, **1991**, 15, 381-386	1.6	24
149	Google matrix, dynamical attractors, and Ulam networks. *Physical Review E*, **2010**, 81, 036213	2.4	23
148	Double Butterfly Spectrum for Two Interacting Particles in the Harper Model. *Physical Review Letters*, **1996**, 77, 4752-4755	7.4	23
147	Delocalizing effect of the Hubbard repulsion for electrons on a two-dimensional disordered lattice. *Physical Review B*, **2003**, 67,	3.3	22
146	Quantum computation of the Anderson transition in the presence of imperfections. *Physical Review A*, **2004**, 69,	2.6	21
145	Quantum Chaos and Quantum Computers. *Physica Scripta*, **2001**, T90, 112	2.6	21
144	Two interacting particles in the Harper model. *Physical Review B*, **1996**, 54, 14896-14898	3.3	21
143	Wikipedia mining of hidden links between political leaders. *European Physical Journal B*, **2016**, 89, 1	1.2	21
142	Chaotic and ballistic dynamics for two-dimensional electrons in periodic magnetic fields. *Physical Review B*, **1994**, 49, 7418-7423	3.3	20

141	A theory of modulational diffusion. *Physica D: Nonlinear Phenomena*, **1985**, 14, 289-304	3.3	20
140	Wikipedia ranking of world universities. *European Physical Journal B*, **2016**, 89, 1	1.2	19
139	Spectral properties of Google matrix of Wikipedia and other networks. *European Physical Journal B*, **2013**, 86, 1	1.2	19
138	Ratchet transport of interacting particles. *Physical Review E*, **2008**, 78, 041127	2.4	19
137	Quantum error correction of coherent errors by randomization. *European Physical Journal D*, **2005**, 32, 153-156	1.3	19
136	Directing transport by polarized radiation in the presence of chaos and dissipation. *Physical Review B*, **2005**, 71,	3.3	19
135	Three-dimensional Anderson transition for two electrons in two dimensions. *Physical Review B*, **2000**, 61, 4588-4591	3.3	19
134	The Kicked Rotator as a Limit of the Kicked Top. *Europhysics Letters*, **1988**, 5, 671-676	1.6	19
133	Inferring hidden causal relations between pathway members using reduced Google matrix of directed biological networks. *PLoS ONE*, **2018**, 13, e0190812	3.7	19
132	Google matrix analysis of the multiproduct world trade network. *European Physical Journal B*, **2015**, 88, 1	1.2	18
131	Breit-Wigner Width for Two Interacting Particles in a One-Dimensional Random Potential. *Physical Review Letters*, **1997**, 78, 923-926	7.4	18
130	Imperfection effects for multiple applications of the quantum wavelet transform. *Physical Review Letters*, **2003**, 90, 257902	7.4	18
129	Quantum computation and analysis of Wigner and Husimi functions: toward a quantum image treatment. *Physical Review E*, **2005**, 71, 066215	2.4	18
128	Rydberg stabilization of atoms in strong fields: the magic mountain in the chaotic sea. *European Physical Journal B*, **1994**, 94, 481-486	1.2	18
127	Quantum effects in the Frenkel-Kontorova model. *Physical Review Letters*, **1989**, 63, 2010-2012	7.4	18
126	Time evolution of Wikipedia network ranking. *European Physical Journal B*, **2013**, 86, 1	1.2	17
125	Eigenstates of an operating quantum computer: hypersensitivity to static imperfections. *European Physical Journal D*, **2002**, 20, 293-296	1.3	17
124	Spin-polarized ground state for interacting electrons in two dimensions. *Physical Review Letters*, **2001**, 86, 5333-6	7.4	17

123	Manifestation of Localization in Noise-Induced Ionization and Dissociation. *Europhysics Letters*, **1991**, 16, 643-648	1.6	17
122	Quantum Evolution in a Dynamical Quasi-Crystal. *Europhysics Letters*, **1992**, 20, 95-100	1.6	17
121	Opinion formation driven by PageRank node influence on directed networks. *Physica A: Statistical Mechanics and Its Applications*, **2015**, 436, 707-715	3.3	16
120	Google matrix and Ulam networks of intermittency maps. *Physical Review E*, **2010**, 81, 036221	2.4	16
119	Time reversal of Bose-Einstein condensates. *Physical Review Letters*, **2008**, 101, 074102	7.4	16
118	Ecological analysis of world trade. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2013**, 377, 250-256	2.3	15
117	Cooling by time reversal of atomic matter waves. *Physical Review Letters*, **2008**, 100, 044106	7.4	15
116	Low-energy transition in spectral statistics of two-dimensional interacting fermions. *Physical Review B*, **2000**, 61, 15546-15549	3.3	15
115	Spectral Variety in the Kicked Harper Model. *Europhysics Letters*, **1995**, 29, 117-122	1.6	15
114	Destruction of classical cantori in the quantum Frenkel-Kontorova model. *European Physical Journal B*, **1990**, 79, 133-142	1.2	15
113	A Solid-State Model for Photonic Localization in Molecular Quasi-Continua. *Europhysics Letters*, **1991**, 14, 211-215	1.6	14
112	Universal emergence of PageRank. *Journal of Physics A: Mathematical and Theoretical*, **2011**, 44, 465101	2	13
111	Toward two-dimensional search engines. *Journal of Physics A: Mathematical and Theoretical*, **2012**, 45, 275101	2	13
110	Towards Google matrix of brain. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2010**, 374, 3206-3209	2.3	13
109	Quantum phase transition in the Frenkel-Kontorova chain: from pinned instanton glass to sliding phonon gas. *Physical Review E*, **2003**, 67, 056209	2.4	13
108	Nonequilibrium stationary states with ratchet effect. *Physical Review E*, **2005**, 71, 036111	2.4	13
107	Transition to an insulating phase induced by attractive interactions in the disordered three-dimensional Hubbard model. *Physical Review B*, **2002**, 66,	3.3	13
106	Quantum Poincare recurrences for a hydrogen atom in a microwave field. *Physical Review Letters*, **2000**, 84, 4088-91	7.4	13

105	Dynamical stochasticity in nonlinear quantum systems. *Theoretical and Mathematical Physics(Russian Federation)*, **1981**, 49, 925-928	0.7	13
104	Destruction of Anderson localization by nonlinearity in kicked rotator at different effective dimensions. *Journal of Physics A: Mathematical and Theoretical*, **2014**, 47, 335101	2	12
103	Fractal Weyl law for Linux Kernel architecture. *European Physical Journal B*, **2011**, 79, 115-120	1.2	12
102	Dynamical localization: Hydrogen atoms in magnetic and microwave fields. *Physical Review A*, **1997**, 55, 1732-1735	2.6	12
101	Model of a deterministic detector and dynamical decoherence. *Physical Review A*, **2005**, 72,	2.6	12
100	Fractal spin glass properties of low energy configurations in the Frenkel-Kontorova chain. *Physical Review E*, **2002**, 65, 026220	2.4	12
99	Highlighting entanglement of cultures via ranking of multilingual Wikipedia articles. *PLoS ONE*, **2013**, 8, e74554	3.7	12
98	Google matrix of Twitter. *European Physical Journal B*, **2012**, 85, 1	1.2	11
97	Chaos in a quasiclassical hadronic atom. *Physical Review A*, **1996**, 53, 737-743	2.6	11
96	Diffusion over localized adiabatic states in a modulated quantum kicked rotator. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **1991**, 154, 19-23	2.3	11
95	World Influence of Infectious Diseases From Wikipedia Network Analysis. *IEEE Access*, **2019**, 7, 26073-26087	3.9	10
94	Quantum Gibbs distribution from dynamical thermalization in classical nonlinear lattices. *New Journal of Physics*, **2013**, 15, 123004	2.9	10
93	Nonlinear delocalization on disordered Stark ladder. *European Physical Journal B*, **2009**, 71, 121-124	1.2	10
92	Dissipative decoherence in the Grover algorithm. *European Physical Journal D*, **2006**, 38, 405-408	1.3	10
91	Microwave control of transport through a chaotic mesoscopic dot. *European Physical Journal B*, **2005**, 46, 515-518	1.2	10
90	Chirikov and Shepelyansky Reply:. *Physical Review Letters*, **2002**, 89,	7.4	10
89	Poincar recurrences and Ulam method for the Chirikov standard map. *European Physical Journal B*, **2013**, 86, 1	1.2	9
88	Freed by interaction kinetic states in the Harper model. *European Physical Journal B*, **2015**, 88, 1	1.2	9

87	Poincaré recurrences of DNA sequences. *Physical Review E*, **2012**, 85, 016214	2.4	9
86	Diffusion and localization for the Chirikov typical map. *Physical Review E*, **2009**, 80, 016210	2.4	9
85	Quantum chaos algorithms and dissipative decoherence with quantum trajectories. *Physical Review E*, **2005**, 71, 056202	2.4	9
84	Regular and anomalous quantum diffusion in the Fibonacci kicked rotator. *Physical Review E*, **2001**, 63, 066217	2.4	9
83	Universal diffusion near the golden chaos border. *Physical Review Letters*, **1996**, 76, 3300-3303	7.4	9
82	Renormalization chaos and motion statistical properties. *Physical Review Letters*, **1988**, 61, 1039	7.4	9
81	The Arnold cat map, the Ulam method and time reversal. *Physica D: Nonlinear Phenomena*, **2012**, 241, 514-518	3.3	8
80	Thermoelectricity of Wigner crystal in a periodic potential. *Europhysics Letters*, **2013**, 103, 68008	1.6	8
79	Dark matter chaos in the Solar system. *Monthly Notices of the Royal Astronomical Society: Letters*, **2013**, 430, L25-L29	4.3	8
78	Google matrix analysis of DNA sequences. *PLoS ONE*, **2013**, 8, e61519	3.7	8
77	PageRank of integers. *Journal of Physics A: Mathematical and Theoretical*, **2012**, 45, 405101	2	8
76	Two interacting Hofstadter butterflies. *Physical Review B*, **1997**, 55, 9524-9533	3.3	8
75	Theory of photogalvanic effect in asymmetric nanostructure arrays. *Physica E: Low-Dimensional Systems and Nanostructures*, **2008**, 40, 1264-1266	3	8
74	Suppression of quantum chaos in a quantum computer hardware. *Physical Review E*, **2006**, 74, 026208	2.4	8
73	Dynamical localization and repeated measurements in a quantum computation process. *Physical Review Letters*, **2004**, 92, 037902	7.4	8
72	Strange attractor simulated on a quantum computer. *European Physical Journal D*, **2003**, 22, 127-130	1.3	8
71	Statistical properties of eigenvalues for an operating quantum computer with static imperfections. *European Physical Journal D*, **2003**, 22, 285-293	1.3	8
70	Dissipative quantum chaos: transition from wave packet collapse to explosion. *Physical Review Letters*, **2005**, 95, 164101	7.4	8

69	Chaotic enhancement in microwave ionization of Rydberg atoms. *European Physical Journal D*, **1999**, 5, 311-326	1.3	8
68	Adiabatic destruction of Anderson localization. *Physical Review E*, **1995**, 51, 1026-1029	2.4	8
67	Analytical determination of stable configurations in doubly excited atoms and ions. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **1994**, 27, L235-L238	1.3	8
66	Google matrix of the citation network of Physical Review. *Physical Review E*, **2014**, 89, 052814	2.4	7
65	PageRank model of opinion formation on Ulam networks. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2013**, 377, 3119-3123	2.3	7
64	Chaotic enhancement of hydrogen-atom excitation in magnetic and microwave fields. *Physical Review A*, **1997**, 56, 3297-3300	2.6	7
63	Phase diagram for the Grover algorithm with static imperfections. *European Physical Journal D*, **2004**, 31, 131-135	1.3	7
62	Repulsive trap for two electrons in a magnetic field. *Physical Review B*, **2001**, 63,	3.3	7
61	Georgeot and Shepelyansky Reply:. *Physical Review Letters*, **2002**, 88,	7.4	7
60	Compressibility crossover and quantum opening of a gap for two-dimensional disordered clusters with Coulomb repulsion. *European Physical Journal B*, **2000**, 17, 515-521	1.2	7
59	Cooper problem in the vicinity of the Anderson transition. *Physical Review B*, **2000**, 62, 8665-8668	3.3	7
58	100-photon microwave ionization of Rydberg atoms in a static electric field. *Physical Review A*, **1998**, 57, 1987-1991	2.6	7
57	Quantum ergodicity for electrons in two dimensions. *Annalen Der Physik*, **1999**, 8, 665-673	2.6	7
56	Chaos and interaction of atoms with self-consistent fields in the case of small coupling constant. *Physical Review Letters*, **1986**, 57, 1815-1818	7.4	7
55	Wikipedia network analysis of cancer interactions and world influence. *PLoS ONE*, **2019**, 14, e0222508	3.7	6
54	Delocalization of two interacting particles in the 2D Harper model. *European Physical Journal B*, **2016**, 89, 1	1.2	6
53	Relativistic graphene ratchet on semidisk Galton board. *European Physical Journal B*, **2011**, 79, 357-362	1.2	6
52	Synchronization mechanism of sharp edges in rings of Saturn. *Monthly Notices of the Royal Astronomical Society*, **2009**, 395, 1934-1940	4.3	6

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49	Delocalization of two-particle ring near the Fermi level of 2d Anderson model. *European Physical Journal B*, **2001**, 21, 129-133	1.2	6
48	Ground-state properties of the two-dimensional disordered Hubbard model. *Physical Review B*, **2000**, 62, 10680-10686	3.3	6
47	Kramers-map approach for stabilization of a hydrogen atom in a monochromatic field. *Physical Review A*, **1994**, 50, 575-583	2.6	6
46	Dynamics and thermalization of a Bose-Einstein condensate in a Sinai-oscillator trap. *Physical Review A*, **2016**, 94,	2.6	6
45	Dynamical thermalization in Bose-Hubbard systems. *Physical Review E*, **2016**, 93, 012126	2.4	5
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42	Chaotic enhancement of dark matter density in binary systems. *Astronomy and Astrophysics*, **2015**, 576, A40	5.1	5
41	Kolmogorov turbulence, Anderson localization and KAM integrability. *European Physical Journal B*, **2012**, 85, 1	1.2	5
40	Wigner crystal in snaked nanochannels. *European Physical Journal B*, **2011**, 82, 63-67	1.2	5
39	Chaotic dynamics of a Bose-Einstein condensate coupled to a qubit. *Physical Review E*, **2009**, 79, 066205	2.4	5
38	Simulation of chaos-assisted tunneling in a semiclassical regime on existing quantum computers. *Physical Review A*, **2002**, 66,	2.6	5
37	Google matrix of the world network of economic activities. *European Physical Journal B*, **2015**, 88, 1	1.2	4
36	Algebraic Statistics of Poincar Recurrences in a DNA Molecule. *Physical Review Letters*, **2015**, 115, 188104	7.4	4
35	Google matrix of business process management. *European Physical Journal B*, **2011**, 84, 493-500	1.2	4
34	Quantum vacuum of strongly nonlinear lattices. *Physical Review E*, **2011**, 83, 016202	2.4	4

33	Interdependence of Sectors of Economic Activities for World Countries from the Reduced Google Matrix Analysis of WTO Data. *Entropy*, **2020**, 22,	2.8	4
32	Fractal structures for the Jacobi Hamiltonian of restricted three-body problem. *New Astronomy*, **2016**, 47, 97-104	1.8	4
31	Interactions and Influence of World Painters From the Reduced Google Matrix of Wikipedia Networks. *IEEE Access*, **2018**, 6, 47735-47750	3.5	4
30	COVID-19's Impact on International Trade.. *Entropy*, **2022**, 24,	2.8	4
29	Google matrix analysis of C.elegans neural network. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2014**, 378, 1932-1936	2.3	3
28	Poisson statistics of PageRank probabilities of Twitter and Wikipedia networks. *European Physical Journal B*, **2014**, 87, 1	1.2	3
27	Disorder and superconductivity: a new phase of bi-particle localized states. *European Physical Journal B*, **2001**, 24, 469-473	1.2	3
26	Benvenuto, Casati, and Shepelyansky Reply. *Physical Review Letters*, **1995**, 74, 3496	7.4	3
25	Breaking of Analyticity in 2 Coupled Frenkel-Kontorova Chains. *Europhysics Letters*, **1993**, 21, 413-418	1.6	3
24	Electron pairing by Coulomb repulsion in narrow band structures. *Physical Review Research*, **2020**, 2,	3.9	3
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20	Magnetization of ballistic quantum dots induced by a linear-polarized microwave field. *European Physical Journal B*, **2007**, 55, 261-270	1.2	2
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