

Klaus M Frahm

List of Publications by Year in Descending Order

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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.

68

papers

1,542

citations

23

h-index

37

g-index

74

ext. papers

1,676

ext. citations

4.1

avg. IF

4.65

L-index

#	Paper	IF	Citations
68	Coulomb electron pairing in a tight-binding model of La-based cuprate superconductors. <i>European Physical Journal B</i> , 2021 , 94, 1	1.2	0
67	Fibrosis Protein-Protein Interactions from Google Matrix Analysis of MetaCore Network.. <i>International Journal of Molecular Sciences</i> , 2021 , 23,	6.3	1
66	What is the central bank of Wikipedia?. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2020 , 542, 123199	3.3	2
65	Collective intelligence defines biological functions in Wikipedia as communities in the hidden protein connection network. <i>PLoS Computational Biology</i> , 2020 , 16, e1007652	5	1
64	Electron pairing by Coulomb repulsion in narrow band structures. <i>Physical Review Research</i> , 2020 , 2,	3.9	3
63	Google matrix analysis of bi-functional SIGNOR network of protein-protein interactions. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2020 , 559, 125019	3.3	2
62	Collective intelligence defines biological functions in Wikipedia as communities in the hidden protein connection network 2020 , 16, e1007652		
61	Collective intelligence defines biological functions in Wikipedia as communities in the hidden protein connection network 2020 , 16, e1007652		
60	Collective intelligence defines biological functions in Wikipedia as communities in the hidden protein connection network 2020 , 16, e1007652		
59	Collective intelligence defines biological functions in Wikipedia as communities in the hidden protein connection network 2020 , 16, e1007652		
58	Ising-PageRank model of opinion formation on social networks. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2019 , 526, 121069	3.3	7
57	Dynamical Thermalization of Interacting Fermionic Atoms in a Sinai Oscillator Trap. <i>Condensed Matter</i> , 2019 , 4, 76	1.8	1
56	Analysis of world terror networks from the reduced Google matrix of Wikipedia. <i>European Physical Journal B</i> , 2018 , 91, 1	1.2	5
55	Interactions and Influence of World Painters From the Reduced Google Matrix of Wikipedia Networks. <i>IEEE Access</i> , 2018 , 6, 47735-47750	3.5	4
54	Dynamical decoherence of a qubit coupled to a quantum dot or the SYK black hole. <i>European Physical Journal B</i> , 2018 , 91, 1	1.2	3
53	Small world of Ulam networks for chaotic Hamiltonian dynamics. <i>Physical Review E</i> , 2018 , 98,	2.4	3
52	Google matrix of Bitcoin network. <i>European Physical Journal B</i> , 2018 , 91, 1	1.2	7

51	Multi-cultural Wikipedia mining of geopolitics interactions leveraging reduced Google matrix analysis. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2017 , 381, 2677-2685	2.3	5
50	Delocalization of two interacting particles in the 2D Harper model. <i>European Physical Journal B</i> , 2016 , 89, 1	1.2	6
49	Wikipedia mining of hidden links between political leaders. <i>European Physical Journal B</i> , 2016 , 89, 1	1.2	21
48	Eigenfunction structure and scaling of two interacting particles in the one-dimensional Anderson model. <i>European Physical Journal B</i> , 2016 , 89, 1	1.2	16
47	Google matrix analysis of directed networks. <i>Reviews of Modern Physics</i> , 2015 , 87, 1261-1310	40.5	73
46	Freed by interaction kinetic states in the Harper model. <i>European Physical Journal B</i> , 2015 , 88, 1	1.2	9
45	Google matrix of the citation network of Physical Review. <i>Physical Review E</i> , 2014 , 89, 052814	2.4	7
44	Poisson statistics of PageRank probabilities of Twitter and Wikipedia networks. <i>European Physical Journal B</i> , 2014 , 87, 1	1.2	3
43	Poincaré recurrences and Ulam method for the Chirikov standard map. <i>European Physical Journal B</i> , 2013 , 86, 1	1.2	9
42	Time evolution of Wikipedia network ranking. <i>European Physical Journal B</i> , 2013 , 86, 1	1.2	17
41	Spectral properties of Google matrix of Wikipedia and other networks. <i>European Physical Journal B</i> , 2013 , 86, 1	1.2	19
40	Google matrix of Twitter. <i>European Physical Journal B</i> , 2012 , 85, 1	1.2	11
39	PageRank of integers. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2012 , 45, 405101	2	8
38	Poincaré recurrences of DNA sequences. <i>Physical Review E</i> , 2012 , 85, 016214	2.4	9
37	Universal emergence of PageRank. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2011 , 44, 465101	2	13
36	Ulam method for the Chirikov standard map. <i>European Physical Journal B</i> , 2010 , 76, 57-68	1.2	30
35	Diffusion and localization for the Chirikov typical map. <i>Physical Review E</i> , 2009 , 80, 016210	2.4	9
34	Short factorization algorithm with a single control qubit and imperfections. <i>Physical Review A</i> , 2008 , 78,	2.6	6

33	Effects of imperfections for Shor's factorization algorithm. <i>Physical Review A</i> , 2007 , 75,	2.6	6
32	Quantum chaos and random matrix theory for fidelity decay in quantum computations with static imperfections. <i>European Physical Journal D</i> , 2004 , 29, 139-155	1.3	44
31	Quantum limit of the laser line width in chaotic cavities and statistics of residues of scattering matrix poles. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2000 , 278, 469-496	3.3	71
30	Large Petermann factor in chaotic cavities with many scattering channels. <i>Europhysics Letters</i> , 2000 , 49, 48-54	1.6	45
29	Distribution of the quantum mechanical time-delay matrix for a chaotic cavity. <i>Waves in Random and Complex Media</i> , 1999 , 9, 91-104		70
28	Interaction induced delocalization of two particles: large system size calculations and dependence on interaction strength. <i>European Physical Journal B</i> , 1999 , 10, 371-378	1.2	25
27	Between Poisson and GUE Statistics: Role of the Breit-Wigner Width. <i>Annals of Physics</i> , 1998 , 270, 292-327.5		16
26	Quantum relaxation in open chaotic systems. <i>Physical Review E</i> , 1997 , 56, R6237-R6240	2.4	16
25	Quantum Localization in Rough Billiards. <i>Physical Review Letters</i> , 1997 , 78, 1440-1443	7.4	75
24	Comment on "No Enhancement of the Localization Length for Two Interacting Particles in a Random Potential" <i>Physical Review Letters</i> , 1997 , 78, 4889-4889	7.4	17
23	Distribution of Parametric Conductance Derivatives of a Quantum Dot. <i>Physical Review Letters</i> , 1997 , 79, 913-916	7.4	49
22	Emergence of Quantum Ergodicity in Rough Billiards. <i>Physical Review Letters</i> , 1997 , 79, 1833-1836	7.4	36
21	Localization in a rough billiard: A β -model formulation. <i>Physical Review B</i> , 1997 , 55, R8626-R8629	3.3	10
20	Superconductor-proximity effect in chaotic and integrable billiards. <i>Physica Scripta</i> , 1997 , T69, 223-225	2.6	43
19	Quantum Mechanical Time-Delay Matrix in Chaotic Scattering. <i>Physical Review Letters</i> , 1997 , 78, 4737-4740	7.4	138
18	Two interacting particles in a random potential: mapping onto one parameter localization theories without interaction. <i>Zeitschrift für Physik B-Condensed Matter</i> , 1997 , 102, 261-275		8
17	Induced superconductivity distinguishes chaotic from integrable billiards. <i>Europhysics Letters</i> , 1996 , 35, 7-12	1.6	102
16	Conductance length autocorrelation in quasi one-dimensional disordered wires. <i>Journal of Physics A</i> , 1996 , 29, 5313-5331		3

15	Quantum transport in disordered wires: Equivalence of the one-dimensional sigma model and the Dorokhov-Mello-Pereyra-Kumar equation. <i>Physical Review B</i> , 1996 , 53, 1490-1501	3-3	53
14	Effective sigma model formulation for two interacting electrons in a disordered metal. <i>Physical Review Letters</i> , 1996 , 76, 1509-1512	7-4	31
13	Effect of the coupling to a superconductor on the level statistics of a metal grain in a magnetic field. <i>Physical Review Letters</i> , 1996 , 76, 2981-2984	7-4	37
12	Brownian Motion Ensembles and Parametric Correlations of the Transmission Eigenvalues: Application to Coupled Quantum Billiards and to Disordered Wires. <i>Journal De Physique, I</i> , 1995 , 5, 877-906		26
11	$h/2e$ Oscillations for Correlated Electron Pairs in Disordered Mesoscopic Rings. <i>Physical Review Letters</i> , 1995 , 75, 1598-1601	7-4	66
10	Equivalence of the Fokker-Planck approach and the nonlinear sigma model for disordered wires in the unitary symmetry class. <i>Physical Review Letters</i> , 1995 , 74, 4706-4709	7-4	43
9	Crossover of Magnetoconductance Autocorrelation for a Ballistic Chaotic Quantum Dot. <i>Europhysics Letters</i> , 1995 , 30, 457-462	1.6	28
8	Analytical Results for Random Band Matrices with Preferential Basis. <i>Europhysics Letters</i> , 1995 , 32, 385-390		32
7	Scaling in Interaction-Assisted Coherent Transport. <i>Europhysics Letters</i> , 1995 , 31, 169-174	1.6	70
6	Magnetoconductance of Ballistic Chaotic Quantum Dots: A Brownian Motion Approach For the S-Matrix. <i>Journal De Physique, I</i> , 1995 , 5, 847-876		25
5	Supersymmetric path integrals applied to the transmission of a mesoscopic ring. <i>European Physical Journal B</i> , 1994 , 94, 201-212	1.2	3
4	Spin-wave analysis of easy-axis quantum antiferromagnets on the triangular lattice. <i>European Physical Journal B</i> , 1992 , 87, 103-110	1.2	17
3	The nature of the flux lattice in granular superconducting networks. <i>European Physical Journal B</i> , 1991 , 82, 257-265	1.2	5
2	Size dependent ac conductivity of small metal particles. <i>European Physical Journal B</i> , 1990 , 78, 91-97	1.2	17
1	Collective intelligence defines biological functions in Wikipedia as communities in the hidden protein connection network		1