Hermann Schulz-Baldes

List of Publications by Year in descending order

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516710 477307 1,015 59 16 29 citations g-index h-index papers 59 59 59 456 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Random Möbius dynamics on the unit disc and perturbation theory for Lyapunov exponents. Discrete and Continuous Dynamical Systems - Series B, 2022, 27, 945.	0.9	1
2	Analyticity properties of the scattering matrix for matrix Schr $\tilde{A}\P$ dinger operators on the discrete line. Journal of Mathematical Analysis and Applications, 2021, 497, 124856.	1.0	3
3	Dimensional Reduction and Scattering Formulation for Even Topological Invariants. Communications in Mathematical Physics, 2021, 381, 119-142.	2.2	2
4	Invariants of disordered semimetals via the spectral localizer. Europhysics Letters, 2021, 136, 27001.	2.0	11
5	Skew localizer and mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.svg"> <mml:msub><mml:mrow><mml:mi mathvariant="double-struck">Z</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow><td>ıl:<u>1.1</u> ıl:msub><!--</td--><td>mml:math>-</td></td></mml:msub>	ıl: <u>1.1</u> ıl:msub> </td <td>mml:math>-</td>	mml:math>-
6	The spectral localizer for semifinite spectral triples. Proceedings of the American Mathematical Society, 2021, 149, 121-134.	0.8	8
7	Pseudo-gaps for random hopping models. Journal of Physics A: Mathematical and Theoretical, 2020, 53, 185201.	2.1	2
8	On â,,2-indices for ground states of fermionic chains. Reviews in Mathematical Physics, 2020, 32, 2050028.	1.7	7
9	Approximate symmetries and conservation laws in topological insulators and associated <mml:math altimg="si45.svg" display="inline" id="d1e1080" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi mathvariant="double-struck">Z</mml:mi></mml:math> -invariants. Annals of Physics. 2020. 419. 168238.	2.8	7
10	The spectral localizer for even index pairings. Journal of Noncommutative Geometry, 2020, 14, 1-23.	0.5	27
11	Chern numbers as half-signature of the spectral localizer. Journal of Mathematical Physics, 2019, 60, .	1.1	7
12	Parity as Z2â€valued spectral flow. Bulletin of the London Mathematical Society, 2019, 51, 836-852.	0.8	5
13	Spectral Flow of Monopole Insertion in Topological Insulators. Communications in Mathematical Physics, 2019, 370, 895-923.	2.2	6
14	Statistical Mechanics of MAP Estimation: General Replica Ansatz. IEEE Transactions on Information Theory, 2019, 65, 7896-7934.	2.4	11
15	Spectral Flow Argument Localizing an Odd Index Pairing. Canadian Mathematical Bulletin, 2019, 62, 373-381.	0.5	6
16	Oscillation Theory for the Density of States of High Dimensional Random Operators. International Mathematics Research Notices, 2019, 2019, 4579-4602.	1.0	2
17	Topological edge states for disordered bosonic systems. Journal of Mathematical Physics, 2018, 59, .	1,1	23
18	The non-commutative topology of two-dimensional dirty superconductors. Journal of Geometry and Physics, 2018, 124, 100-123.	1.4	10

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19	Application of Semifinite Index Theory to Weak Topological Phases. MATRIX Book Series, 2018, , 203-227.	0.2	2
20	Spectral flow for skew-adjoint Fredholm operators. Journal of Spectral Theory, 2018, 9, 137-170.	0.8	11
21	Signatures for â€hermitians and â€unitaries on Krein spaces with Real structures. Mathematische Nachrichten, 2017, 290, 1840-1858.	0.8	5
22	Replica symmetry breaking in compressive sensing. , 2017, , .		6
23	Topological Boundary Invariants for Floquet Systems and Quantum Walks. Mathematical Physics Analysis and Geometry, 2017, 20, 1.	1.0	21
24	Krein signatures of transfer operators for half-space topological insulators. Journal of Physics A: Mathematical and Theoretical, 2016, 49, 405201.	2.1	4
25	RSB decoupling property of MAP estimators. , 2016, , .		11
26	Generalized Connes–Chern characters in <i>KK</i> theory with an application to weak invariants of topological insulators. Reviews in Mathematical Physics, 2016, 28, 1650024.	1.7	16
27	Index Pairings in Presence of Symmetries with Applications to Topological Insulators. Communications in Mathematical Physics, 2016, 343, 477-513.	2.2	42
28	Non-commutative odd Chern numbers and topological phases of disordered chiral systems. Journal of Functional Analysis, 2016, 271, 1150-1176.	1.4	33
29	Topological Insulators from the Perspective of Non-commutative Geometry and Index Theory. Deutsche Mathematiker Vereinigung Jahresbericht, 2016, 118, 247-273.	1.1	20
30	Spectral Flows Associated to Flux Tubes. Annales Henri Poincare, 2016, 17, 1-35.	1.7	20
31	The Density of Surface States as the Total Time Delay. Letters in Mathematical Physics, 2016, 106, 485-507.	1.1	5
32	Bulk and Boundary Invariants for Complex Topological Insulators. Letters in Mathematical Physics, 2016, , .	0.6	198
33	Spectral Flows of Dilations of Fredholm Operators. Canadian Mathematical Bulletin, 2015, 58, 51-68.	0.5	14
34	Gaussian fluctuations of products of random matrices distributed close to the identity. Journal of Difference Equations and Applications, 2015, 21, 467-485.	1.1	3
35	Quantization of interface currents. Journal of Mathematical Physics, 2014, 55, 121901.	1.1	9
36	Signature and Spectral Flow of J-Unitary $\$\{mathbb\{S\}^1\}$ S 1 -Fredholm Operators. Integral Equations and Operator Theory, 2014, 78, 323-374.	0.8	13

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37	Lyapunov Spectra for All Ten Symmetry Classes of Quasi-one-dimensional Disordered Systems of Non-interacting Fermions. Journal of Statistical Physics, 2013, 152, 275-304.	1.2	8
38	Topological Invariants of Edge States for Periodic Two-Dimensional Models. Mathematical Physics Analysis and Geometry, 2013, 16, 137-170.	1.0	67
39	Orbital Polarization and Magnetization for Independent Particles in Disordered Media. Communications in Mathematical Physics, 2013, 319, 649-681.	2.2	31
40	Persistence of Spin Edge Currents in Disordered Quantum Spin Hall Systems. Communications in Mathematical Physics, 2013, 324, 589-600.	2.2	14
41	Scattering zippers and their spectral theory. Journal of Spectral Theory, 2013, 3, 47-82.	0.8	7
42	SCATTERING THEORY FOR LATTICE OPERATORS IN DIMENSION d ≥ 3. Reviews in Mathematical Physics, 2012, 24, 1250020.	1.7	23
43	Transport in the random Kronig-Penney model. Journal of Mathematical Physics, 2012, 53, .	1.1	8
44	Sturm intersection theory for periodic Jacobi matrices and linear Hamiltonian systems. Linear Algebra and Its Applications, 2012, 436, 498-515.	0.9	13
45	Random Lie group actions on compact manifolds: A perturbative analysis. Annals of Probability, 2010, 38, .	1.8	11
46	Random Dirac Operators with Time Reversal Symmetry. Communications in Mathematical Physics, 2010, 295, 209-242.	2.2	15
47	Geometry of Weyl theory for Jacobi matrices with matrix entries. Journal D'Analyse Mathematique, 2010, 110, 129-165.	0.8	6
48	The Random Phase Property and the Lyapunov Spectrum for Disordered Multi-channel Systems. Journal of Statistical Physics, 2010, 140, 122-153.	1.2	8
49	Spectral averaging techniques for Jacobi matrices with matrix entries. Journal of Physics A: Mathematical and Theoretical, 2009, 42, 185204.	2.1	1
50	Positive Lyapunov exponents and localization bounds for strongly mixing potentials. Advances in Theoretical and Mathematical Physics, 2008, 12, 1377-1399.	0.6	3
51	Upper Bounds On Wavepacket Spreading For Random Jacobi Matrices. Communications in Mathematical Physics, 2007, 273, 601-618.	2.2	18
52	Scaling Diagram for the Localization Length at a Band Edge. Annales Henri Poincare, 2007, 8, 1595-1621.	1.7	10
53	Lyapunov Exponents at Anomalies of SL(2, â,,)-actions., 2007, , 159-172.		6
54	Semicircle law and freeness for random matrices with symmetries or correlations. Mathematical Research Letters, 2005, 12, 531-542.	0.5	43

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55	Perturbative Test of Single Parameter Scaling for 1D Random Media. Annales Henri Poincare, 2004, 5, 1159-1180.	1.7	12
56	Phase-Averaged Transport¶for Quasi-Periodic Hamiltonians. Communications in Mathematical Physics, 2002, 227, 515-539.	2.2	7
57	Simultaneous quantization of edge and bulk Hall conductivity. Journal of Physics A, 2000, 33, L27-L32.	1.6	77
58	Intermittent Lower Bound on Quantum Diffusion. Letters in Mathematical Physics, 1999, 49, 317-324.	1.1	23
59	Anomalous Drude Model. Physical Review Letters, 1997, 78, 2176-2179.	7.8	24