

# Wilhelm Schlag

## List of Publications by Year in descending order

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218677

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docs citations

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times ranked

396  
citing authors

#	ARTICLE	IF	CITATIONS
1	On Modified Scattering for 1D Quadratic Klein-Gordon Equations With Non-Generic Potentials. International Mathematics Research Notices, 2023, 2023, 5118-5208.	1.0	8
2	An introduction to multiscale techniques in the theory of Anderson localization, Part I. Nonlinear Analysis: Theory, Methods & Applications, 2022, 220, 112869.	1.1	5
3	On pointwise decay of waves. Journal of Mathematical Physics, 2021, 62, 061509.	1.1	6
4	Effective multi-scale approach to the Schrödinger cocycle over a skew-shift base. Ergodic Theory and Dynamical Systems, 2020, 40, 2788-2853.	0.6	7
5	Structure formulas for wave operators. American Journal of Mathematics, 2020, 142, 751-807.	1.1	10
6	On the spectrum of multi-frequency quasiperiodic Schrödinger operators with large coupling. Inventiones Mathematicae, 2019, 217, 603-701.	2.5	12
7	Structure formulas for wave operators under a small scaling invariant condition. Journal of Spectral Theory, 2019, 9, 967-990.	0.8	7
8	The Weber equation as a normal form with applications to top of the barrier scattering. Journal of Spectral Theory, 2018, 8, 347-412.	0.8	3
9	Profiles for the Radial Focusing 4d Energy-Critical Wave Equation. Communications in Mathematical Physics, 2018, 357, 943-1008.	2.2	17
10	Large global solutions for energy supercritical nonlinear wave equations on $\mathbb{R}^{3+1}$ . Journal D'Analyse Mathématique, 2017, 133, 91-131.	0.8	10
11	Linear Stability of the Skyrmion. International Mathematics Research Notices, 2016, , rrw114.	1.0	1
12	Center-stable manifold of the ground state in the energy space for the critical wave equation. Mathematische Annalen, 2015, 361, 1-50.	1.4	52
13	Threshold Phenomenon for the Quintic Wave Equation in Three Dimensions. Communications in Mathematical Physics, 2014, 327, 309-332.	2.2	19
14	Relaxation of Wave Maps Exterior to a Ball to Harmonic Maps for All Data. Geometric and Functional Analysis, 2014, 24, 610-647.	1.8	43
15	Energy partition for the linear radial wave equation. Mathematische Annalen, 2014, 358, 573-607.	1.4	27
16	Global dynamics above the ground state energy for the one-dimensional NLKG equation. Mathematische Zeitschrift, 2012, 272, 297-316.	0.9	20
17	Semiclassical Low Energy Scattering for One-Dimensional Schrödinger Operators with Exponentially Decaying Potentials. Annales Henri Poincaré, 2012, 13, 1371-1426.	1.7	7
18	Global dynamics above the ground state energy for the cubic NLS equation in 3D. Calculus of Variations and Partial Differential Equations, 2012, 44, 1-45.	1.7	55

#	ARTICLE	IF	CITATIONS
19	Global Dynamics Above the Ground State for the Nonlinear Klein-Gordon Equation Without a Radial Assumption. <i>Archive for Rational Mechanics and Analysis</i> , 2012, 203, 809-851.	2.4	31
20	On Pointwise Decay of Linear Waves on a Schwarzschild Black Hole Background. <i>Communications in Mathematical Physics</i> , 2012, 309, 51-86.	2.2	70
21	On resonances and the formation of gaps in the spectrum of quasi-periodic Schrödinger equations. <i>Annals of Mathematics</i> , 2011, 173, 337-475.	4.2	33
22	A proof of Price's Law on Schwarzschild black hole manifolds for all angular momenta. <i>Advances in Mathematics</i> , 2011, 226, 484-540.	1.1	49
23	Two Erdős's problems on lacunary sequences: Chromatic number and Diophantine approximation. <i>Bulletin of the London Mathematical Society</i> , 2010, 42, 295-300.	0.8	26
24	Strichartz and smoothing estimates for Schrödinger operators with almost critical magnetic potentials in three and higher dimensions. <i>Forum Mathematicum</i> , 2009, 21, .	0.7	53
25	Decay for the wave and Schrödinger evolutions on manifolds with conical ends, Part I. <i>Transactions of the American Mathematical Society</i> , 2009, 362, 19-52.	0.9	26
26	Decay for the wave and Schrödinger evolutions on manifolds with conical ends, Part II. <i>Transactions of the American Mathematical Society</i> , 2009, 362, 289-318.	0.9	15
27	Slow blow-up solutions for the $H^1(R^3)$ critical focusing semilinear wave equation. <i>Duke Mathematical Journal</i> , 2009, 147, .	1.5	99
28	Fine Properties of the Integrated Density of States and a Quantitative Separation Property of the Dirichlet Eigenvalues. <i>Geometric and Functional Analysis</i> , 2008, 18, 755-869.	1.8	57
29	Renormalization and blow up for charge one equivariant critical wave maps. <i>Inventiones Mathematicae</i> , 2008, 171, 543-615.	2.5	134
30	Semiclassical analysis of low and zero energy scattering for one-dimensional Schrödinger operators with inverse square potentials. <i>Journal of Functional Analysis</i> , 2008, 255, 2321-2362.	1.4	8
31	On the focusing critical semi-linear wave equation. <i>American Journal of Mathematics</i> , 2007, 129, 843-913.	1.1	62
32	Stable manifolds for all monic supercritical focusing nonlinear Schrödinger equations in one dimension. <i>Journal of the American Mathematical Society</i> , 2006, 19, 815-920.	3.9	79
33	Agmon-Kato-Kuroda theorems for a large class of perturbations. <i>Duke Mathematical Journal</i> , 2006, 131, 397.	1.5	43
34	Dispersive estimates for Schrödinger operators in the presence of a resonance and/or an eigenvalue at zero energy in dimension three: II. <i>Journal D'Analyse Mathématique</i> , 2006, 99, 199-248.	0.8	40
35	Dispersive analysis of charge transfer models. <i>Communications on Pure and Applied Mathematics</i> , 2005, 58, 149-216.	3.1	71
36	Dispersive Estimates for Schrödinger Operators in Dimension Two. <i>Communications in Mathematical Physics</i> , 2005, 257, 87-117.	2.2	66

#	ARTICLE	IF	CITATIONS
37	On Schrödinger Operators with Dynamically Defined Potentials. Moscow Mathematical Journal, 2005, 5, 577-612.	0.4	4
38	Dispersive Estimates for Schrödinger Operators in Dimensions One and Three. Communications in Mathematical Physics, 2004, 251, 157-178.	2.2	146
39	Time decay for solutions of Schrödinger equations with rough and time-dependent potentials. Inventiones Mathematicae, 2004, 155, 451-513.	2.5	226
40	Dispersive estimates for Schrödinger operators in the presence of a resonance and/or an eigenvalue at zero energy in dimension three: I. Dynamics of Partial Differential Equations, 2004, 1, 359-379.	0.9	45
41	Frequency concentration and location lengths for the anderson model at small disorders. Journal D'Analyse Mathématique, 2002, 88, 173-220.	0.8	11
42	Bernoulli convolutions and an intermediate value theorem for entropies of $K$ -partitions. Journal D'Analyse Mathématique, 2002, 87, 337-367.	0.8	5
43	Anderson localization for Schrödinger operators on $\mathbb{Z}^2$ with quasi-periodic potential. Acta Mathematica, 2002, 188, 41-86.	3.9	67
44	Anderson Localization for Schrödinger Operators on $\hat{\mathbb{A}}_1$ , with Potentials Given by the Skew-Shift. Communications in Mathematical Physics, 2001, 220, 583-621.	2.2	61
45	On the Integrated Density of States for Schrödinger Operators on $\hat{\mathbb{A}}_2$ with Quasi Periodic Potential. Communications in Mathematical Physics, 2001, 223, 47-65.	2.2	11
46	Holder Continuity of the Integrated Density of States for Quasi-Periodic Schrodinger Equations and Averages of Shifts of Subharmonic Functions. Annals of Mathematics, 2001, 154, 155.	4.2	141
47	Anderson Localization for Schrödinger Operators on $\hat{\mathbb{A}}_1$ , with Strongly Mixing Potentials. Communications in Mathematical Physics, 2000, 215, 143-175.	2.2	37
48	Longer Life and Population Growth. Vie plus longue et croissance démographique. El aumento del numero de anos de vida y el crecimiento de la poblacion. Population and Development Review, 1999, 25, 741-747.	2.1	8
49	A Geometric Inequality with Applications to the Kakeya Problem in Three Dimensions. Geometric and Functional Analysis, 1998, 8, 606-625.	1.8	11
50	Decay Estimates for the One-dimensional Wave Equation with an Inverse Power Potential. International Mathematics Research Notices, 0, , .	1.0	6
51	Generic and Non-Generic Behavior of Solutions to Defocusing Energy Critical Wave Equation with Potential in the Radial Case. International Mathematics Research Notices, 0, , rnw181.	1.0	2