

Benoît Gröbert

List of Publications by Year in descending order

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36
papers

648
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687363

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642732

23
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37
all docs

37
docs citations

37
times ranked

160
citing authors

#	ARTICLE	IF	CITATIONS
1	KAM for the nonlinear beam equation. Geometric and Functional Analysis, 2016, 26, 1588-1715.	1.8	74
2	KAM for the Quantum Harmonic Oscillator. Communications in Mathematical Physics, 2011, 307, 383-427.	2.2	71
3	Reducibility of the quantum harmonic oscillator in d-dimensions with polynomial time-dependent perturbation. Analysis and PDE, 2018, 11, 775-799.	1.4	55
4	Normal Forms for Semilinear Quantum Harmonic Oscillators. Communications in Mathematical Physics, 2009, 291, 763-798.	2.2	38
5	A Nekhoroshev-type theorem for the nonlinear Schrödinger equation on the torus. Analysis and PDE, 2013, 6, 1243-1262.	1.4	36
6	Resonant dynamics for the quintic nonlinear Schrödinger equation. Annales De L'Institut Henri Poincaré (C) Analyse Non Linéaire, 2012, 29, 455-477.	1.4	29
7	KAM for the Klein Gordon equation on \mathbb{S}^d . Bollettino Dell Unione Matematica Italiana, 2016, 9, 237-288.	1.0	27
8	Birkhoff normal form for splitting methods applied to semilinear Hamiltonian PDEs. Part II. Abstract splitting. Numerische Mathematik, 2010, 114, 459-490.	1.9	26
9	Birkhoff normal form for splitting methods applied to semilinear Hamiltonian PDEs. Part I. Finite-dimensional discretization. Numerische Mathematik, 2010, 114, 429-458.	1.9	25
10	Hamiltonian Interpolation of Splitting Approximations for Nonlinear PDEs. Foundations of Computational Mathematics, 2011, 11, 381-415.	2.5	20
11	Utilization of deformations in molecular quantum chemistry and application to density functional theory. International Journal of Quantum Chemistry, 1998, 68, 221-231.	2.0	19
12	The dressed mobile atoms and ions. Journal Des Mathématiques Pures Et Appliquées, 2006, 86, 177-200.	1.6	18
13	On the energy exchange between resonant modes in nonlinear Schrödinger equations. Annales De L'Institut Henri Poincaré (C) Analyse Non Linéaire, 2011, 28, 127-134.	1.4	16
14	Existence and stability of ground states for fully discrete approximations of the nonlinear Schrödinger equation. Numerische Mathematik, 2013, 123, 461-492.	1.9	13
15	LONG TIME BEHAVIOR OF THE SOLUTIONS OF NLW ON THE -DIMENSIONAL TORUS. Forum of Mathematics, Sigma, 2020, 8, .	0.7	13
16	On reducibility of quantum harmonic oscillator on \mathbb{S}^d with quasiperiodic in time potential. Annales De La Faculté Des Sciences De Toulouse, 2019, 28, 977-1014.	0.3	13
17	Beating effects in cubic Schrödinger systems and growth of Sobolev norms. Nonlinearity, 2013, 26, 1361-1376.	1.4	12
18	High and low energy estimates for the Dirac equation. Journal of Mathematical Physics, 1995, 36, 991-1015.	1.1	11

#	ARTICLE	IF	CITATIONS
19	Rational Normal Forms and Stability of Small Solutions to Nonlinear Schrödinger Equations. <i>Annals of PDE</i> , 2020, 6, 1.	1.8	11
20	Local Density Approximations for the Energy of a Periodic Coulomb Model. <i>Mathematical Models and Methods in Applied Sciences</i> , 2003, 13, 1185-1217.	3.3	10
21	Reducibility of Schrödinger equation on a Zoll manifold with unbounded potential. <i>Journal of Mathematical Physics</i> , 2020, 61, .	1.1	10
22	Reducibility of Schrödinger Equation on the Sphere. <i>International Mathematics Research Notices</i> , 2021, 2021, 15082-15120.	1.0	9
23	Quasi-invariant modified Sobolev norms for semi linear reversible PDEs. <i>Nonlinearity</i> , 2010, 23, 429-443.	1.4	8
24	Long Time Dynamics for Generalized Korteweg-de Vries and Benjamin-Ono Equations. <i>Archive for Rational Mechanics and Analysis</i> , 2021, 241, 1139-1241.	2.4	8
25	Symmetries of the nonlinear Schrödinger equation. <i>Bulletin De La Societe Mathematique De France</i> , 2002, 130, 603-618.	0.2	8
26	A note on gaps of Hill's equation. <i>International Mathematics Research Notices</i> , 2004, 2004, 2703.	1.0	6
27	Long-Time Existence for Semi-linear Beam Equations on Irrational Tori. <i>Journal of Dynamics and Differential Equations</i> , 2021, 33, 1363-1398.	1.9	6
28	The dressed nonrelativistic electron in a magnetic field. <i>Mathematical Methods in the Applied Sciences</i> , 2006, 29, 1121-1146.	2.3	5
29	Stable and unstable time quasi periodic solutions for a system of coupled NLS equations. <i>Nonlinearity</i> , 2018, 31, 4776-4811.	1.4	3
30	KdV & KAM ergebnisse der mathematik und ihrer grenzgebiete 3. <i>Mathematical Intelligencer</i> , 2004, 26, 76-77.	0.2	2
31	Stability of Large Periodic Solutions of Klein-Gordon Near a Homoclinic Orbit. <i>Journal of Nonlinear Science</i> , 2015, 25, 371-388.	2.1	1
32	Dynamics of Klein-Gordon on a compact surface near a homoclinic orbit. <i>Discrete and Continuous Dynamical Systems</i> , 2014, 34, 3485-3510.	0.9	1
33	Birkhoff normal forms for Hamiltonian PDEs in their energy space. <i>Journal De L'Ecole Polytechnique - Mathematiques</i> , 0, 9, 681-745.	0.0	1
34	Le problème infrarouge pour l'électron habillé non relativiste dans un champ magnétique. <i>Comptes Rendus Mathematique</i> , 2008, 346, 1045-1050.	0.3	0
35	A KAM theorem for space-multidimensional Hamiltonian PDEs. <i>Proceedings of the Steklov Institute of Mathematics</i> , 2016, 295, 129-147.	0.3	0
36	KAM Theorem for the Nonlinear Schrodinger Equation. <i>Journal of Nonlinear Mathematical Physics</i> , 2001, 8, 133.	1.3	0