Jalal Shatah

List of Publications by Year
in descending order

27 papers	3,694 citations	361413 20 h-index	580821 25 g-index
27 all docs	27 docs citations	27 times ranked	766 citing authors

#	Article	IF	Citations
1	Stability theory of solitary waves in the presence of symmetry, I. Journal of Functional Analysis, 1987, 74, 160-197.	1.4	897
2	Stability theory of solitary waves in the presence of symmetry, II. Journal of Functional Analysis, 1990, 94, 308-348.	1.4	595
3	Normal forms and quadratic nonlinear Klein-Gordon equations. Communications on Pure and Applied Mathematics, 1985, 38, 685-696.	3.1	301
4	Instability of nonlinear bound states. Communications in Mathematical Physics, 1985, 100, 173-190.	2.2	260
5	Weak solutions and development of singularities of the SU(2) Ïƒ-model. Communications on Pure and Applied Mathematics, 1988, 41, 459-469.	3.1	204
6	Geometry and a priori estimates for free boundary problems of the Euler's equation. Communications on Pure and Applied Mathematics, 2008, 61, 698-744.	3.1	166
7	Stable standing waves of nonlinear Klein-Gordon equations. Communications in Mathematical Physics, 1983, 91, 313-327.	2.2	164
8	Regularity Results for Nonlinear Wave Equations. Annals of Mathematics, 1993, 138, 503.	4.2	159
9	Global existence of small solutions to nonlinear evolution equations. Journal of Differential Equations, 1982, 46, 409-425.	2.2	146
10	Title is missing!. International Mathematics Research Notices, 1994, 1994, 303.	1.0	143
11	On the cauchy problem for equivariant wave maps. Communications on Pure and Applied Mathematics, 1994, 47, 719-754.	3.1	93
12	Persistent homoclinic orbits for a perturbed nonlinear Schrï¿½dinger equation. Communications on Pure and Applied Mathematics, 1996, 49, 1175-1255.	3.1	88
13	Local Well-Posedness for Fluid Interface Problems. Archive for Rational Mechanics and Analysis, 2011, 199, 653-705.	2.4	86
14	Unstable ground state of nonlinear Klein-Gordon equations. Transactions of the American Mathematical Society, 1985, 290, 701-710.	0.9	84
15	The Cauchy problem for wave maps. International Mathematics Research Notices, 2002, 2002, 555.	1.0	67
16	Decay estimates for the critical semilinear wave equation. Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire, 1998, 15, 783-789.	1.4	64
17	A priori estimates for fluid interface problems. Communications on Pure and Applied Mathematics, 2008, 61, 848-876.	3.1	59
18	Homoclinic orbits for the perturbed sine-Gordon equation. Communications on Pure and Applied Mathematics, 2000, 53, 283-299.	3.1	28

#	Article	IF	Citations
19	The stability of localized solutions of Landau-Lifshitz equations. Communications on Pure and Applied Mathematics, 2002, 55, 1136-1159.	3.1	26
20	Travelling water waves with compactly supported vorticity. Nonlinearity, 2013, 26, 1529-1564.	1.4	25
21	Breathers as homoclinic geometric wave maps. Physica D: Nonlinear Phenomena, 1996, 99, 113-133.	2.8	13
22	Soliton dynamics in planar ferromagnets and anti-ferromagnets. Journal of Zhejiang University: Science A, 2003, 4, 503-510.	2.4	7
23	On the Wind Generation of Water Waves. Archive for Rational Mechanics and Analysis, 2016, 222, 827-878.	2.4	6
24	Self-similar solutions for the Schrödinger map equation. Mathematische Zeitschrift, 2010, 264, 697-707.	0.9	5
25	The Cauchy Problem for Harmonic Maps on Minkowski Space. , 1995, , 1126-1132.		5
26	Constrained Wave Equations and Wave Maps. Communications in Mathematical Physics, 2003, 239, 383-404.	2.2	3
27	Recent Advances in Nonlinear Wave Equations. The IMA Volumes in Mathematics and Its Applications, 1987, , 305-309.	0.5	0