Michal Kowalczyk

List of Publications by Year
in descending order

29 papers	1,039 citations	430874 18 h-index	477307 29 g-index
29 all docs	29 docs citations	29 times ranked	296 citing authors

#	Article	IF	Citations
1	On De Giorgi's conjecture in dimension N≥9. Annals of Mathematics, 2011, 174, 1485-1569.	4.2	165
2	Singular limits in Liouville-type equations. Calculus of Variations and Partial Differential Equations, 2005, 24, 47-81.	1.7	161
3	Concentration on curves for nonlinear Schrödinger Equations. Communications on Pure and Applied Mathematics, 2007, 60, 113-146.	3.1	135
4	Multiple-end solutions to the Allen–Cahn equation in $\mathbb{R}^2$. Journal of Functional Analysis, 2010, 258, 458-503.	1.4	70
5	The Toda System and Clustering Interfaces in the Allen–Cahn equation. Archive for Rational Mechanics and Analysis, 2008, 190, 141-187.	2.4	49
6	The Toda system and multiple-end solutions of autonomous planar elliptic problems. Advances in Mathematics, 2010, 224, 1462-1516.	1.1	43
7	Interface Foliation near Minimal Submanifolds in Riemannian Manifolds with Positive Ricci Curvature. Geometric and Functional Analysis, 2010, 20, 918-957.	1.8	39
8	Entire solutions of the Allen-Cahn equation and complete embedded minimal surfaces of finite total curvature in $\mathbb{R}^3$. Journal of Differential Geometry, 2013, 93, .	1.1	37
9	THE GIERER & MEINHARDT SYSTEM: THE BREAKING OF HOMOCLINICS AND MULTI-BUMP GROUND STATES. Communications in Contemporary Mathematics, 2001, 03, 419-439.	1.2	34
10	A hybrid variational principle for the Keller–Segel system in $\mathbb{R}^2$. ESAIM: Mathematical Modelling and Numerical Analysis, 2015, 49, 1553-1576.	1.9	33
11	Multi-bump ground states of the Gierer–Meinhardt system in $\mathbb{R}^2$. Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire, 2003, 20, 53-85.	1.4	31
12	Variational reduction for Ginzburg–Landau vortices. Journal of Functional Analysis, 2006, 239, 497-541.	1.4	27
13	Traveling Waves with Multiple and Nonconvex Fronts for a Bistable Semilinear Parabolic Equation. Communications on Pure and Applied Mathematics, 2013, 66, 481-547.	3.1	23
14	Resonance and Interior Layers in an Inhomogeneous Phase Transition Model. SIAM Journal on Mathematical Analysis, 2007, 38, 1542-1564.	1.9	22
15	A counterexample to a conjecture by De Giorgi in large dimensions. Comptes Rendus Mathematique, 2008, 346, 1261-1266.	0.3	22
16	Sharp Interpolation Inequalities on the Sphere: New Methods and Consequences. Chinese Annals of Mathematics Series B, 2013, 34, 99-112.	0.4	22
17	The space of 4-ended solutions to the Allen–Cahn equation in the plane. Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire, 2012, 29, 761-781.	1.4	21
18	Symmetry breaking of nematic umbilical defects through an amplitude equation. Physical Review E, 2014, 90, 012507.	2.1	20

#	Article	IF	Citations
19	Boundary spikes in the Gierer-Meinhardt system. Communications on Pure and Applied Analysis, 2002, 1, 437-456.	0.8	13
20	On De Giorgi's conjecture and beyond. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 6845-6850.	7.1	13
21	End-to-end construction for the Allen–Cahn equation in the plane. Calculus of Variations and Partial Differential Equations, 2015, 52, 281-302.	1.7	12
22	Improved interpolation inequalities on the sphere. Discrete and Continuous Dynamical Systems - Series S, 2014, 7, 695-724.	1.1	11
23	The Jacobi-Toda system and foliated interfaces. Discrete and Continuous Dynamical Systems, 2010, 28, 975-1006.	0.9	10
24	Critical points of the regular part of the harmonic Green function with Robin boundary condition. Journal of Functional Analysis, 2008, 255, 1057-1101.	1.4	7
25	Singly Periodic Solutions of the Allen-Cahn Equation and the Toda Lattice. Communications in Partial Differential Equations, 2015, 40, 329-356.	2.2	7
26	Towards classification of multiple-end solutions to the Allen-Cahn equation in $\mathbb{R}^2$. Networks and Heterogeneous Media, 2012, 7, 837-855.	1.1	5
27	Nonlinear Schrödinger equations: concentration on weighted geodesics in the semi-classical limit. Comptes Rendus Mathematique, 2005, 341, 223-228.	0.3	3
28	Renormalized energy of interacting Ginzburg-Landau vortex filaments. Journal of the London Mathematical Society, 2008, 77, 647-665.	1.0	3
29	Transversal instability for the thermodiffusive reaction-diffusion system. Chinese Annals of Mathematics Series B, 2015, 36, 871-882.	0.4	1