

# Tobias Weth

## List of Publications by Year in descending order

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Version: 2024-02-01

51  
papers

1,790  
citations

331670

21  
h-index

276875

41  
g-index

52  
all docs

52  
docs citations

52  
times ranked

486  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ground state solutions for some indefinite variational problems. <i>Journal of Functional Analysis</i> , 2009, 257, 3802-3822.	1.4	374
2	Partial symmetry of least energy nodal solutions to some variational problems. <i>Journal D'Analyse Mathématique</i> , 2005, 96, 1-18.	0.8	162
3	Sign Changing Solutions of Superlinear Schrödinger Equations. <i>Communications in Partial Differential Equations</i> , 2005, 29, 25-42.	2.2	162
4	Nonexistence results for a class of fractional elliptic boundary value problems. <i>Journal of Functional Analysis</i> , 2012, 263, 2205-2227.	1.4	102
5	A note on additional properties of sign changing solutions to superlinear elliptic equations. <i>Topological Methods in Nonlinear Analysis</i> , 2003, 22, 1.	0.2	98
6	A Sobolev inequality with remainder term and critical equations on domains with topology for the polyharmonic operator. <i>Calculus of Variations and Partial Differential Equations</i> , 2003, 18, 253-268.	1.7	71
7	Symmetry via antisymmetric maximum principles in nonlocal problems of variable order. <i>Annali Di Matematica Pura Ed Applicata</i> , 2016, 195, 273-291.	1.0	68
8	Energy bounds for entire nodal solutions of autonomous superlinear equations. <i>Calculus of Variations and Partial Differential Equations</i> , 2006, 27, 421-437.	1.7	65
9	A priori bounds and a Liouville theorem on a half-space for higher-order elliptic Dirichlet problems. <i>Mathematische Zeitschrift</i> , 2009, 261, 805-827.	0.9	49
10	Symmetry of solutions to semilinear elliptic equations via Morse index. <i>Proceedings of the American Mathematical Society</i> , 2007, 135, 1753-1762.	0.8	45
11	Monotonicity and nonexistence results for some fractional elliptic problems in the half-space. <i>Communications in Contemporary Mathematics</i> , 2016, 18, 1550012.	1.2	38
12	N-Vortex Equilibria for Ideal Fluids in Bounded Planar Domains and New Nodal Solutions of the sinh-Poisson and the Lane-Emden-Fowler Equations. <i>Communications in Mathematical Physics</i> , 2010, 297, 653-686.	2.2	35
13	The Dirichlet problem for the logarithmic Laplacian. <i>Communications in Partial Differential Equations</i> , 2019, 44, 1100-1139.	2.2	34
14	Dual variational methods and nonvanishing for the nonlinear Helmholtz equation. <i>Advances in Mathematics</i> , 2015, 280, 690-728.	1.1	33
15	Symmetry of Solutions to Variational Problems for Nonlinear Elliptic Equations via Reflection Methods. <i>Deutsche Mathematiker Vereinigung Jahresbericht</i> , 2010, 112, 119-158.	1.1	31
16	Asymptotic symmetry for a class of nonlinear fractional reaction-diffusion equations. <i>Discrete and Continuous Dynamical Systems</i> , 2014, 34, 2581-2615.	0.9	30
17	Curves and surfaces with constant nonlocal mean curvature: Meeting Alexandrov and Delaunay. <i>Journal Fur Die Reine Und Angewandte Mathematik</i> , 2018, 2018, 253-280.	0.9	28
18	Existence of solutions to nonlinear, subcritical higher order elliptic Dirichlet problems. <i>Journal of Differential Equations</i> , 2010, 248, 1866-1878.	2.2	25

#	ARTICLE	IF	CITATIONS
19	Symmetry and nonexistence of low Morse index solutions in unbounded domains. <i>Journal Des Mathematiques Pures Et Appliquees</i> , 2010, 93, 536-558.	1.6	25
20	Positivity, symmetry and uniqueness for minimizers of second-order Sobolev inequalities. <i>Annali Di Matematica Pura Ed Applicata</i> , 2007, 186, 565-578.	1.0	22
21	Real Solutions to the Nonlinear Helmholtz Equation with Local Nonlinearity. <i>Archive for Rational Mechanics and Analysis</i> , 2014, 211, 359-388.	2.4	22
22	The shape of extremal functions for Poincaré-Sobolev-type inequalities in a ball. <i>Journal of Functional Analysis</i> , 2006, 237, 194-223.	1.4	21
23	On the strong maximum principle for nonlocal operators. <i>Mathematische Zeitschrift</i> , 2019, 293, 81-111.	0.9	20
24	Liouville Theorems for a General Class of Nonlocal Operators. <i>Potential Analysis</i> , 2016, 45, 187-200.	0.9	18
25	A new look at the fractional Poisson problem via the logarithmic Laplacian. <i>Journal of Functional Analysis</i> , 2020, 279, 108732.	1.4	18
26	Unbounded Periodic Solutions to Serrin's Overdetermined Boundary Value Problem. <i>Archive for Rational Mechanics and Analysis</i> , 2017, 223, 737-759.	2.4	16
27	Entire Solutions to Nonlinear Scalar Field Equations with Indefinite Linear Part. <i>Advanced Nonlinear Studies</i> , 2012, 12, 281-314.	1.7	15
28	Existence, unique continuation and symmetry of least energy nodal solutions to sublinear Neumann problems. <i>Mathematische Zeitschrift</i> , 2015, 280, 707-732.	0.9	15
29	Liouville-type results for non-cooperative elliptic systems in a half-space. <i>Journal of the London Mathematical Society</i> , 2012, 86, 111-128.	1.0	14
30	Asymptotic axial symmetry of solutions of parabolic equations in bounded radial domains. <i>Journal of Evolution Equations</i> , 2012, 12, 697-712.	1.1	13
31	Local compactness and nonvanishing for weakly singular nonlocal quadratic forms. <i>Nonlinear Analysis: Theory, Methods &amp; Applications</i> , 2020, 193, 111431.	1.1	13
32	Near-sphere lattices with constant nonlocal mean curvature. <i>Mathematische Annalen</i> , 2018, 370, 1513-1569.	1.4	12
33	Serrin's overdetermined problem on the sphere. <i>Calculus of Variations and Partial Differential Equations</i> , 2018, 57, 1.	1.7	11
34	Spectral properties of the logarithmic Laplacian. <i>Analysis and Mathematical Physics</i> , 2021, 11, 1.	1.3	11
35	Branch continuation inside the essential spectrum for the nonlinear Schrödinger equation. <i>Journal of Fixed Point Theory and Applications</i> , 2017, 19, 475-502.	1.1	10
36	The Unique Continuation Property of Sublinear Equations. <i>SIAM Journal on Mathematical Analysis</i> , 2018, 50, 3919-3938.	1.9	10

#	ARTICLE	IF	CITATIONS
37	Small Order Asymptotics of the Dirichlet Eigenvalue Problem for the Fractional Laplacian. <i>Journal of Fourier Analysis and Applications</i> , 2022, 28, 1.	1.0	8
38	Morse index versus radial symmetry for fractional Dirichlet problems. <i>Advances in Mathematics</i> , 2021, 384, 107728.	1.1	7
39	A fractional Hadamard formula and applications. <i>Calculus of Variations and Partial Differential Equations</i> , 2021, 60, 1.	1.7	6
40	On the Asymptotic Shape of Solutions to Neumann Problems for Non-cooperative Parabolic Systems. <i>Journal of Dynamics and Differential Equations</i> , 2015, 27, 307-332.	1.9	4
41	Complex Solutions and Stationary Scattering for the Nonlinear Helmholtz Equation. <i>SIAM Journal on Mathematical Analysis</i> , 2021, 53, 2349-2372.	1.9	4
42	The nonlinear Schrödinger equation in the half-space. <i>Mathematische Annalen</i> , 2022, 383, 361-397.	1.4	4
43	Remainder terms in a higher order Sobolev inequality. <i>Archiv Der Mathematik</i> , 2010, 95, 381-388.	0.5	3
44	Critical Domains for the First Nonzero Neumann Eigenvalue in Riemannian Manifolds. <i>Journal of Geometric Analysis</i> , 2019, 29, 3221-3247.	1.0	3
45	Nodal Solutions for Sublinear-Type Problems with Dirichlet Boundary Conditions. <i>International Mathematics Research Notices</i> , 2020, , .	1.0	3
46	A Connection Between Symmetry Breaking for Sobolev Minimizers and Stationary Navier-Stokes Flows Past a Circular Obstacle. <i>Applied Mathematics and Optimization</i> , 2022, 85, 1.	1.6	3
47	Sharp local estimates for the Szegő-Weinberger profile in Riemannian manifolds. <i>Calculus of Variations and Partial Differential Equations</i> , 2014, 51, 217-242.	1.7	2
48	Fourier extension estimates for symmetric functions and applications to nonlinear Helmholtz equations. <i>Annali Di Matematica Pura Ed Applicata</i> , 2021, 200, 2423-2454.	1.0	2
49	On the lack of directional quasiconcavity of the fundamental mode in the clamped membrane problem. <i>Archiv Der Mathematik</i> , 2011, 97, 365-372.	0.5	1
50	The Poisson problem for the fractional Hardy operator: Distributional identities and singular solutions. <i>Transactions of the American Mathematical Society</i> , 0, , .	0.9	1
51	Symmetry Properties of Sign-Changing Solutions to Nonlinear Parabolic Equations in Unbounded Domains. <i>Journal of Dynamics and Differential Equations</i> , 0, , 1.	1.9	0