Petru Mironescu

List of Publications by Year in descending order

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38 papers	948 citations	623734 14 h-index	434195 31 g-index
39 all docs	39 docs citations	39 times ranked	340 citing authors

#	Article	IF	Citations
1	Limiting embedding theorems forW s,p whens â†' 1 and applications. Journal D'Analyse Mathematique, 2002, 87, 77-101.	0.8	149
2	Gagliardo-Nirenberg, composition and products in fractional Sobolev spaces. Journal of Evolution Equations, 2001, 1, 387-404.	1.1	133
3	Lifting in Sobolev spaces. Journal D'Analyse Mathematique, 2000, 80, 37-86.	0.8	120
4	H1/2 maps with values into the circle: Minimal Connections, Lifting, and the Ginzburgâ€"Landau equation. Publications Mathematiques De L'Institut Des Hautes Etudes Scientifiques, 2004, 99, 1-115.	4.3	82
5	Gagliardoâ€"Nirenberg inequalities and non-inequalities: The full story. Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire, 2018, 35, 1355-1376.	1.4	76
6	Ginzburg-landau type energy with discontinuous constraint. Journal D'Analyse Mathematique, 1999, 77, 1-26.	0.8	73
7	On the structure of the Sobolev space H1/2 with values into the circle. Comptes Rendus Mathematique, 2000, 331, 119-124.	0.5	39
8	Lifting, degree, and distributional Jacobian revisited. Communications on Pure and Applied Mathematics, 2005, 58, 529-551.	3.1	37
9	Where Sobolev interacts with Gagliardoâ€"Nirenberg. Journal of Functional Analysis, 2019, 277, 2839-2864.	1.4	31
10	Degree and Sobolev spaces. Topological Methods in Nonlinear Analysis, 1999, 13, 181.	0.2	25
11	Ginzburgâ€"Landau minimizers with prescribed degrees. Capacity of the domain and emergence of vortices. Journal of Functional Analysis, 2006, 239, 76-99.	1.4	22
12	Traces of weighted Sobolev spaces. Old and new. Nonlinear Analysis: Theory, Methods & Applications, 2015, 119, 354-381.	1.1	17
13	A variational problem with lack of compactness for H1/2(S1;S1) maps of prescribed degree. Journal of Functional Analysis, 2004, 217, 249-279.	1.4	15
14	Minimax Critical Points in Ginzburg-Landau Problems with Semi-Stiff Boundary Conditions: Existence and Bubbling. Communications in Partial Differential Equations, 2014, 39, 946-1005.	2.2	13
15	A limiting case for the divergence equation. Mathematische Zeitschrift, 2013, 274, 427-460.	0.9	10
16	THE GINZBURGâ€"LANDAU FUNCTIONAL WITH A DISCONTINUOUS AND RAPIDLY OSCILLATING PINNING TERM. PART I: THE ZERO DEGREE CASE. Communications in Contemporary Mathematics, 2011, 13, 885-914.	1.2	9
17	Two-parameter homogenization for a Ginzburg-Landau problem in a perforated domain. Networks and Heterogeneous Media, 2008, 3, 461-487.	1.1	9
18	Remarks on nonminimizing solutions of a Ginzburgâ€"Landau type equation. Asymptotic Analysis, 1996, 13, 199-215.	0.5	8

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19	On some inequalities of Bourgain, Brezis, Maz'ya, and Shaposhnikova related to<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" overflow="scroll"><mml:msup><mml:mi>L</mml:mi><mml:mn>1</mml:mn></mml:msup></mml:math>vector fields. Comptes Rendus Mathematique, 2010, 348, 513-515.	0.3	7
20	Density in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:msup><mml:mrow><mml:mi>W</mml:mi></mml:mrow><mml:mrow><mml:mi>s</mml:mi><mml:mo>,</mml:mo><mml:mi stretchy="false">(</mml:mi><mml:mi) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 697 Td (mathvariant="normal">Î©</mml:mi><mml:mo>;<	1.4	7
21	Lifting default for<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" overflow="scroll"><mml:msup><mml:mi mathvariant="double-struck">S</mml:mi><mml:mn>1</mml:mn></mml:msup></mml:math>-valued maps. Comptes Rendus Mathematique, 2008, 346, 1039-1044.	0.3	6
22	Decomposition of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" overflow="scroll"><mml:msup><mml:mi mathvariant="double-struck">S</mml:mi><mml:mn>1</mml:mn></mml:msup></mml:math>-valued maps in Sobolev spaces. Comptes Rendus Mathematique, 2010, 348, 743-746.	0.3	6
23	Ginzburgâ€“Landau minimizers with prescribed degrees: dependence on domain. Comptes Rendus Mathematique, 2003, 337, 375-380.	0.3	4
24	Distances between homotopy classes ofW^{s,p}(?^N;?^N). ESAIM - Control, Optimisation and Calculus of Variations, 2016, 22, 1204-1235.	1.3	4
25	Sobolev Maps to the Circle. Progress in Nonlinear Differential Equations and Their Application, 2021, , .	0.9	4
26	Uniqueness of vortexless Ginzburg-Landau type minimizers in two dimensions. Calculus of Variations and Partial Differential Equations, 2013, 46, 523-554.	1.7	3
27	Distances between classes in $$W^{1,1}(Omega ;{mathbb {S}}^{1})$$ W 1 , 1 (Î© Í¾ S 1). Calculus of Variations and Partial Differential Equations, 2018, 57, 1.	1.7	3
28	Lifting in Besov spaces. Nonlinear Analysis: Theory, Methods & Applications, 2020, 193, 111489.	1.1	3
29	Trace theory for Sobolev mappings into a manifold. Annales De La FacultÃ© Des Sciences De Toulouse, 2021, 30, 281-299.	0.3	3
30	Lifting in compact covering spaces for fractional Sobolev mappings. Analysis and PDE, 2021, 14, 1851-1871.	1.4	3
31	Existence of critical points with semi-stiff boundary conditions for singular perturbation problems in simply connected planar domains. Journal Des Mathematiques Pures Et Appliquees, 2014, 102, 385-418.	1.6	2
32	Prescribing the Jacobian in critical spaces. Journal D'Analyse Mathematique, 2014, 122, 317-373.	0.8	2
33	Profile decomposition and phase control for circle-valued maps in one dimension. Comptes Rendus Mathematique, 2015, 353, 1087-1092.	0.3	2
34	Phases of unimodular complex valued maps: optimal estimates, the factorization method, and the sum-intersection property of Sobolev spaces. Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire, 2015, 32, 965-1013.	1.4	2
35	Asymptotic behavior of critical points of an energy involving a loop-well potential. Communications in Partial Differential Equations, 2017, 42, 1837-1870.	2.2	2
36	Distances between classes of sphere-valued Sobolev maps. Comptes Rendus Mathematique, 2016, 354, 677-684.	0.3	1

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37	Traces of the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" id="mml1" display="inline" overflow="scroll" altimg="si1.gif"><mml:msup><mml:mrow><mml:mi>W</mml:mi></mml:mrow><mml:mrow><mml:mn>1</mml:mn></mml:mrow></mml:msup><mml:mo>,</mml:mo> of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" id="mml2" display="inline" overflow="scroll" altimg="si2.gif"><mml:msup><mml:mrow><mml:mi mathvariant="double-struck">R</mml:mi></mml:mrow><mml:mrow><mml:mn>1</mml:mn> Nonlinear Analysis	1.1	0
38	Sum-Intersection Property of Sobolev Spaces. Springer Optimization and Its Applications, 2018, , 203-228.	0.9	0