

Giovanni Alberti

List of Publications by Year in descending order

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Version: 2024-02-01

38
papers

1,603
citations

361413

20
h-index

345221

36
g-index

40
all docs

40
docs citations

40
times ranked

694
citing authors

#	ARTICLE	IF	CITATIONS
1	Exponential self-similar mixing by incompressible flows. Journal of the American Mathematical Society, 2019, 32, 445-490.	3.9	40
2	Lossless Analog Compression. IEEE Transactions on Information Theory, 2019, 65, 7480-7513.	2.4	8
3	Loss of Regularity for the Continuity Equation with Non-Lipschitz Velocity Field. Annals of PDE, 2019, 5, 1.	1.8	19
4	Optimal reinforcing networks for elastic membranes. Networks and Heterogeneous Media, 2019, 14, 589-615.	1.1	2
5	On the structure of continua with finite length and G ∞ 's semicontinuity theorem. Nonlinear Analysis: Theory, Methods & Applications, 2017, 153, 35-55.	1.1	11
6	On some geometric properties of currents and Frobenius theorem. Atti Della Accademia Nazionale Dei Lincei, Classe Di Scienze Fisiche, Matematiche E Naturali, Rendiconti Lincei Matematica E Applicazioni, 2017, 28, 861-869.	0.6	1
7	On the differentiability of Lipschitz functions with respect to measures in the Euclidean space. Geometric and Functional Analysis, 2016, 26, 1-66.	1.8	32
8	Eulerian, Lagrangian and Broad continuous solutions to a balance law with non-convex flux I. Journal of Differential Equations, 2016, 261, 4298-4337.	2.2	8
9	Lossless linear analog compression. , 2016, , .		2
10	A uniqueness result for the continuity equation in two dimensions. Journal of the European Mathematical Society, 2014, 16, 201-234.	1.4	41
11	Exponential self-similar mixing and loss of regularity for continuity equations. Comptes Rendus Mathematique, 2014, 352, 901-906.	0.3	29
12	On the L^p -differentiability of certain classes of functions. Revista Matematica Iberoamericana, 2014, 30, 349-367.	0.9	13
13	Generalized N-property and Sard theorem for Sobolev maps. Atti Della Accademia Nazionale Dei Lincei, Classe Di Scienze Fisiche, Matematiche E Naturali, Rendiconti Lincei Matematica E Applicazioni, 2012, 23, 477-491.	0.6	8
14	Differentiability of Lipschitz Functions, Structure of Null Sets, and Other Problems. , 2011, , .		5
15	Quasistatic Evolution of Sessile Drops and Contact Angle Hysteresis. Archive for Rational Mechanics and Analysis, 2011, 202, 295-348.	2.4	20
16	Divergence-free vector fields in \mathbb{R}^2 . Journal of Mathematical Sciences, 2010, 170, 283-293.	0.4	4
17	Uniform energy distribution for an isoperimetric problem with long-range interactions. Journal of the American Mathematical Society, 2009, 22, 569-605.	3.9	75
18	BV has the bounded approximation property. Journal of Geometric Analysis, 2005, 15, 1-7.	1.0	9

#	ARTICLE	IF	CITATIONS
19	Variational convergence for functionals of Ginzburg-Landau type. Indiana University Mathematics Journal, 2005, 54, 1411-1472.	0.9	78
20	Wetting of rough surfaces: a homogenization approach. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2005, 461, 79-97.	2.1	56
21	Functions with prescribed singularities. Journal of the European Mathematical Society, 2003, 5, 275-311.	1.4	45
22	The calibration method for the Mumford-Shah functional and free-discontinuity problems. Calculus of Variations and Partial Differential Equations, 2003, 16, 299-333.	1.7	81
23	A new approach to variational problems with multiple scales. Communications on Pure and Applied Mathematics, 2001, 54, 761-825.	3.1	76
24	A new approach to variational problems with multiple scales. Communications on Pure and Applied Mathematics, 2001, 54, 826-850.	3.1	18
25	Title is missing!. Acta Applicandae Mathematicae, 2001, 65, 9-33.	1.0	139
26	The calibration method for the mumford-shah functional. Comptes Rendus Mathematique, 1999, 329, 249-254.	0.5	6
27	A geometrical approach to monotone functions in \mathbb{R}^n . Mathematische Zeitschrift, 1999, 230, 259-316.	0.9	99
28	Phase Transition with the Line-Tension Effect. Archive for Rational Mechanics and Analysis, 1998, 144, 1-46.	2.4	96
29	A nonlocal anisotropic model for phase transitions. Mathematische Annalen, 1998, 310, 527-560.	1.4	99
30	A non-local anisotropic model for phase transitions: asymptotic behaviour of rescaled energies. European Journal of Applied Mathematics, 1998, 9, 261-284.	2.9	97
31	Surface tension in Ising systems with Kac potentials. Journal of Statistical Physics, 1996, 82, 743-796.	1.2	71
32	On the structure of singular sets of convex functions. Calculus of Variations and Partial Differential Equations, 1994, 2, 17-27.	1.7	53
33	Integral representation of local functionals. Annali Di Matematica Pura Ed Applicata, 1993, 165, 49-86.	1.0	9
34	Local mappings on spaces of differentiable functions. Manuscripta Mathematica, 1993, 79, 81-97.	0.6	2
35	Rank one property for derivatives of functions with bounded variation. Proceedings of the Royal Society of Edinburgh Section A: Mathematics, 1993, 123, 239-274.	1.2	94
36	On the singularities of convex functions. Manuscripta Mathematica, 1992, 76, 421-435.	0.6	79

#	ARTICLE	IF	CITATIONS
37	A lusin type theorem for gradients. Journal of Functional Analysis, 1991, 100, 110-118.	1.4	70
38	Structure of Null Sets in the Plane and Applications. , 0, , 3-22.		7