

Bouchitte Guy

List of Publications by Year in descending order

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docs citations

71
times ranked

757
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimal Design Versus Maximal Monge-Kantorovich Metrics. Archive for Rational Mechanics and Analysis, 2022, 243, 1449.	2.4	3
2	Relaxed multi-marginal costs and quantization effects. Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire, 2021, 38, 61-90.	1.4	2
3	A new class of costs for optimal transport planning. European Journal of Applied Mathematics, 2019, 30, 1229-1263.	2.9	24
4	Sensitivity of the Compliance and of the Wasserstein Distance with Respect to a Varying Source. Applied Mathematics and Optimization, 2019, 79, 743-768.	1.6	0
5	A Duality Theory for Non-convex Problems in the Calculus of Variations. Archive for Rational Mechanics and Analysis, 2018, 229, 361-415.	2.4	4
6	A duality recipe for non-convex variational problems. Comptes Rendus - Mecanique, 2018, 346, 206-221.	2.1	0
7	Homogenization Near Resonances and Artificial Magnetism in Three Dimensional Dielectric Metamaterials. Archive for Rational Mechanics and Analysis, 2017, 225, 1233-1277.	2.4	20
8	Optimal design problems for Schrödinger operators with noncompact resolvents. ESAIM - Control, Optimisation and Calculus of Variations, 2017, 23, 627-635.	1.3	1
9	A Variational Method for Second Order Shape Derivatives. SIAM Journal on Control and Optimization, 2016, 54, 1056-1084.	2.1	8
10	Resonant effects in random dielectric structures. ESAIM - Control, Optimisation and Calculus of Variations, 2015, 21, 217-246.	1.3	4
11	Duality for non-convex variational problems. Comptes Rendus Mathematique, 2015, 353, 375-379.	0.3	3
12	Shape derivatives for minima of integral functionals. Mathematical Programming, 2014, 148, 111-142.	2.4	10
13	A nonstandard free boundary problem arising in the shape optimization of thin torsion rods. Interfaces and Free Boundaries, 2013, 15, 95-119.	0.8	7
14	Optimal Thin Torsion Rods and Cheeger Sets. SIAM Journal on Mathematical Analysis, 2012, 44, 483-512.	1.9	8
15	Thin waveguides with Robin boundary conditions. Journal of Mathematical Physics, 2012, 53, 123517.	1.1	5
16	Multiscale Nanorod Metamaterials and Realizable Permittivity Tensors. Communications in Computational Physics, 2012, 11, 489-507.	1.7	12
17	Excitonic states and their wave functions in anisotropic materials: A computation using the finite element method and its application to AlN. Physica Status Solidi (B): Basic Research, 2012, 249, 455-458.	1.5	6
18	Homogenization of nonlocal wire metamaterial via a renormalization approach. Journal of the Optical Society of America B: Optical Physics, 2011, 28, 1275.	2.1	9

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19	Structural Optimization of Thin Elastic Plates: The Three Dimensional Approach. Archive for Rational Mechanics and Analysis, 2011, 202, 829-874.	2.4	6
20	Asymptotic analysis of a class of optimal location problems. Journal Des Mathematiques Pures Et Appliquees, 2011, 95, 382-419.	1.6	22
21	The optimal compliance problem for thin torsion rods: A 3D-1D analysis leading to Cheeger-type solutions. Comptes Rendus Mathematique, 2010, 348, 467-471.	0.3	2
22	Cloaking of Small Objects by Anomalous Localized Resonance. Quarterly Journal of Mechanics and Applied Mathematics, 2010, 63, 437-463.	1.3	59
23	Homogenization of Dielectric Photonic Quasi Crystals. Multiscale Modeling and Simulation, 2010, 8, 1862-1881.	1.6	22
24	Homogenization of Maxwell's Equations in a Split Ring Geometry. Multiscale Modeling and Simulation, 2010, 8, 717-750.	1.6	69
25	Homogenization of Arrays of Nanorods. Progress in Electromagnetics Research Symposium: [proceedings] Progress in Electromagnetics Research Symposium, 2010, 6, 735-739.	0.4	0
26	Resonant homogenization of a dielectric metamaterial. Microwave and Optical Technology Letters, 2009, 51, 2695-2701.	1.4	15
27	A complete-damage problem at small strains. Zeitschrift Fur Angewandte Mathematik Und Physik, 2009, 60, 205-236.	1.4	37
28	Homogenization of the 3D Maxwell system near resonances and artificial magnetism. Comptes Rendus Mathematique, 2009, 347, 571-576.	0.3	49
29	A general class of phase transition models with weighted interface energy. Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire, 2008, 25, 1111-1143.	1.4	5
30	MICHELL TRUSSES AND LINES OF PRINCIPAL ACTION. Mathematical Models and Methods in Applied Sciences, 2008, 18, 1571-1603.	3.3	27
31	On the curvature and torsion effects in one dimensional waveguides. ESAIM - Control, Optimisation and Calculus of Variations, 2007, 13, 793-808.	1.3	48
32	Optimal Design of Thin Plates by a Dimension Reduction for Linear Constrained Problems. SIAM Journal on Control and Optimization, 2007, 46, 1664-1682.	2.1	5
33	A new L^∞ estimate in optimal mass transport. Proceedings of the American Mathematical Society, 2007, 135, 3525-3536.	0.8	11
34	3D \rightarrow 2D analysis for the optimal elastic compliance problem. Comptes Rendus Mathematique, 2007, 345, 713-718.	0.3	4
35	Optimality Conditions for Mass Design Problems and Applications to Thin Plates. Archive for Rational Mechanics and Analysis, 2007, 184, 257-284.	2.4	15
36	Homogenization of a Wire Photonic Crystal: The Case of Small Volume Fraction. SIAM Journal on Applied Mathematics, 2006, 66, 2061-2084.	1.8	49

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37	Bloch vector dependence of the plasma frequency in metallic photonic crystals. <i>Physical Review E</i> , 2006, 74, 056612.	2.1	26
38	<i>Convex Analysis and Duality Methods.</i> , 2006, , 642-652.		8
39	Negative refraction in periodic and random photonic crystals. <i>New Journal of Physics</i> , 2005, 7, 159-159.	2.9	43
40	Do Fresnel coefficients exist?. <i>Wave Motion</i> , 2005, 42, 75-95.	2.0	6
41	Theory of Mesoscopic Magnetism in Photonic Crystals. <i>Physical Review Letters</i> , 2005, 94, 183902.	7.8	79
42	Left-handed media and homogenization of photonic crystals. <i>Optics Letters</i> , 2005, 30, 1189.	3.3	40
43	Homogenization of second order energies on periodic thin structures. <i>Calculus of Variations and Partial Differential Equations</i> , 2004, 20, 175-211.	1.7	3
44	Homogenization near resonances and artificial magnetism from dielectrics. <i>Comptes Rendus Mathematique</i> , 2004, 339, 377-382.	0.3	95
45	A p-Laplacian Approximation for Some Mass Optimization Problems. <i>Journal of Optimization Theory and Applications</i> , 2003, 118, 1-25.	1.5	30
46	Bending Moment in Membrane Theory. <i>Journal of Elasticity</i> , 2003, 73, 75-99.	1.9	19
47	The calibration method for the Mumford-Shah functional and free-discontinuity problems. <i>Calculus of Variations and Partial Differential Equations</i> , 2003, 16, 299-333.	1.7	81
48	Second-order energies on thin structures: variational theory and non-local effects. <i>Journal of Functional Analysis</i> , 2003, 204, 228-267.	1.4	19
49	A Global Method for Relaxation in $W^{1,p}$ and in SBV p . <i>Archive for Rational Mechanics and Analysis</i> , 2002, 165, 187-242.	2.4	62
50	Asymptotique d'un problème de positionnement optimal. <i>Comptes Rendus Mathematique</i> , 2002, 335, 853-858.	0.3	21
51	Bounds for the effective coefficients of homogenized low-dimensional structures. <i>Journal Des Mathematiques Pures Et Appliquees</i> , 2002, 81, 453-469.	1.6	5
52	<i>Variational Theory of Weak Geometric Structures: The Measure Method and Its Applications.</i> , 2002, , 19-40.		7
53	Homogenization of Thin Structures by Two-Scale Method with Respect to Measures. <i>SIAM Journal on Mathematical Analysis</i> , 2001, 32, 1198-1226.	1.9	60
54	Characterization of optimal shapes and masses through Monge-Kantorovich equation. <i>Journal of the European Mathematical Society</i> , 2001, 3, 139-168.	1.4	104

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55	Convergence of Sobolev spaces on varying manifolds. <i>Journal of Geometric Analysis</i> , 2001, 11, 399-422.	1.0	13
56	REGULAR APPROXIMATION OF FREE-DISCONTINUITY PROBLEMS. <i>Mathematical Models and Methods in Applied Sciences</i> , 2000, 10, 1073-1097.	3.3	4
57	The calibration method for the mumford-shah functional. <i>Comptes Rendus Mathematique</i> , 1999, 329, 249-254.	0.5	6
58	Phase Transition with the Line-Tension Effect. <i>Archive for Rational Mechanics and Analysis</i> , 1998, 144, 1-46.	2.4	96
59	A Global Method for Relaxation. <i>Archive for Rational Mechanics and Analysis</i> , 1998, 145, 51-98.	2.4	89
60	Homogenization of a set of parallel fibres. <i>Waves in Random and Complex Media</i> , 1997, 7, 245-256.	1.5	107
61	Energies with respect to a measure and applications to low dimensional structures. <i>Calculus of Variations and Partial Differential Equations</i> , 1997, 5, 37-54.	1.7	83
62	Mathématiques/Mathematics Shape optimization solutions via Monge-Kantorovich equation. <i>Comptes Rendus Mathematique</i> , 1997, 324, 1185-1191.	0.5	58
63	Relaxation of bulk and interfacial energies. <i>Archive for Rational Mechanics and Analysis</i> , 1996, 135, 107-173.	2.4	25
64	Singular perturbations and homogenization in stratified media. <i>Applicable Analysis</i> , 1996, 61, 307-341.	1.3	13
65	Direct Methods in the Calculus of Variations (B. Dacorogna). <i>SIAM Review</i> , 1991, 33, 299-300.	9.5	1
66	Singular perturbations of variational problems arising from a two-phase transition model. <i>Applied Mathematics and Optimization</i> , 1990, 21, 289-314.	1.6	69
67	New lower semicontinuity results for nonconvex functionals defined on measures. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 1990, 15, 679-692.	1.1	58
68	On the concepts of a perfectly conducting material and of a perfectly conducting and infinitely thin screen. <i>Radio Science</i> , 1989, 24, 13-26.	1.6	21
69	Multifonctions s.c.i. et Régularité s.c.i. Essentielle. <i>Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire</i> , 1989, 6, 123-149.	1.4	7
70	Integral representation of convex functionals on a space of measures. <i>Journal of Functional Analysis</i> , 1988, 80, 398-420.	1.4	70
71	Homogenization Techniques as Applied in the Electromagnetic Theory of Gratings. <i>Electromagnetics</i> , 1985, 5, 17-36.	0.7	46