

Marcello Ponsiglione

List of Publications by Year in descending order

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papers

710
citations

623734

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times ranked

267
citing authors

#	ARTICLE	IF	CITATIONS
1	The core-radius approach to supercritical fractional perimeters, curvatures and geometric flows. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 2022, 214, 112585.	1.1	2
2	Long time behavior of discrete volume preserving mean curvature flows. <i>Journal Fur Die Reine Und Angewandte Mathematik</i> , 2022, 2022, 27-51.	0.9	6
3	Vectorial crystallization problems and collective behavior. <i>Journal of Mathematical Biology</i> , 2022, 84, 6.	1.9	2
4	Failure of crystallization for generalized Lennard-Jones potentials and coarse graining to a rotating stars problem in one dimension. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 2022, , 113046.	1.1	0
5	Attractive Riesz potentials acting on hard spheres. <i>Nonlinearity</i> , 2021, 34, 350-371.	1.4	3
6	Variational models in elasticity. <i>Mathematics in Engineering</i> , 2021, 3, 1-4.	0.9	0
7	Stability results for nonlocal geometric evolutions and limit cases for fractional mean curvature flows. <i>Communications in Partial Differential Equations</i> , 2021, 46, 1344-1371.	2.2	5
8	Low energy configurations of topological singularities in two dimensions: A Γ -convergence analysis of dipoles. <i>Communications in Contemporary Mathematics</i> , 2020, 22, 1950019.	1.2	5
9	Uniform distribution of dislocations in Peierls-Nabarro models for semi-coherent interfaces. <i>Calculus of Variations and Partial Differential Equations</i> , 2020, 59, 1.	1.7	4
10	Generalized crystalline evolutions as limits of flows with smooth anisotropies. <i>Analysis and PDE</i> , 2019, 12, 789-813.	1.4	7
11	Existence and uniqueness for anisotropic and crystalline mean curvature flows. <i>Journal of the American Mathematical Society</i> , 2019, 32, 779-824.	3.9	13
12	Derivation of Linearized Polycrystals from a Two-Dimensional System of Edge Dislocations. <i>SIAM Journal on Mathematical Analysis</i> , 2019, 51, 3956-3981.	1.9	7
13	Γ -Convergence of the Heitmann-Radin Sticky Disc Energy to the Crystalline Perimeter. <i>Journal of Nonlinear Science</i> , 2019, 29, 1273-1299.	2.1	8
14	Γ -Convergence Analysis of a Generalized XY Model: Fractional Vortices and String Defects. <i>Communications in Mathematical Physics</i> , 2018, 358, 705-739.	2.2	9
15	Existence and Uniqueness for a Crystalline Mean Curvature Flow. <i>Communications on Pure and Applied Mathematics</i> , 2017, 70, 1084-1114.	3.1	17
16	A Variational Model for Dislocations at Semi-coherent Interfaces. <i>Journal of Nonlinear Science</i> , 2017, 27, 1435-1461.	2.1	8
17	Minimising movements for the motion of discrete screw dislocations along glide directions. <i>Calculus of Variations and Partial Differential Equations</i> , 2017, 56, 1.	1.7	7
18	Dynamics of discrete screw dislocations on glide directions. <i>Journal of the Mechanics and Physics of Solids</i> , 2016, 92, 87-104.	4.8	13

#	ARTICLE	IF	CITATIONS
19	Reprint of: Dynamics of discrete screw dislocations on glide directions. Journal of the Mechanics and Physics of Solids, 2016, 97, 299-316.	4.8	0
20	Nonlocal Curvature Flows. Archive for Rational Mechanics and Analysis, 2015, 218, 1263-1329.	2.4	52
21	Metastability and Dynamics of Discrete Topological Singularities in Two Dimensions: A $\hat{\Gamma}^c$ -Convergence Approach. Archive for Rational Mechanics and Analysis, 2014, 214, 269-330.	2.4	55
22	Ginzburg-Landau functionals and renormalized energy: A revised $\hat{\Gamma}^c$ -convergence approach. Journal of Functional Analysis, 2014, 266, 4890-4907.	1.4	36
23	A Nonlocal Mean Curvature Flow and Its Semi-implicit Time-Discrete Approximation. SIAM Journal on Mathematical Analysis, 2012, 44, 4048-4077.	1.9	22
24	$\hat{\Gamma}^c$ -Convergence Analysis of Systems of Edge Dislocations: the Self Energy Regime. Archive for Rational Mechanics and Analysis, 2012, 206, 885-910.	2.4	41
25	Variational equivalence between Ginzburg-Landau, XY spin systems and screw dislocations energies. Indiana University Mathematics Journal, 2011, 60, 171-208.	0.9	31
26	A Variational Model for Infinite Perimeter Segmentations Based on Lipschitz Level Set Functions: Denoising while Keeping Finely Oscillatory Boundaries. Multiscale Modeling and Simulation, 2010, 8, 1715-1741.	1.6	15
27	Gradient theory for plasticity via homogenization of discrete dislocations. Journal of the European Mathematical Society, 2010, 12, 1231-1266.	1.4	81
28	Crack Initiation in Brittle Materials. Archive for Rational Mechanics and Analysis, 2008, 188, 309-349.	2.4	57
29	Non-interpenetration of matter for SBV deformations of hyperelastic brittle materials. Proceedings of the Royal Society of Edinburgh Section A: Mathematics, 2008, 138, 1019-1041.	1.2	22
30	Elastic Energy Stored in a Crystal Induced by Screw Dislocations: From Discrete to Continuous. SIAM Journal on Mathematical Analysis, 2007, 39, 449-469.	1.9	54
31	Homogenization of two-phase metrics and applications. Journal D'Analyse Mathematique, 2007, 103, 157-196.	0.8	5
32	From 1-homogeneous supremal functionals to difference quotients: relaxation and $\hat{\Gamma}^c$ -convergence. Calculus of Variations and Partial Differential Equations, 2006, 27, 397-420.	1.7	13
33	A $\hat{\Gamma}^c$ -Convergence Approach to Stability of Unilateral Minimality Properties in Fracture Mechanics and Applications. Archive for Rational Mechanics and Analysis, 2006, 180, 399-447.	2.4	39
34	DISCONTINUOUS FINITE ELEMENT APPROXIMATION OF QUASISTATIC CRACK GROWTH IN NONLINEAR ELASTICITY. Mathematical Models and Methods in Applied Sciences, 2006, 16, 77-118.	3.3	20
35	Dielectric breakdown: optimal bounds. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2001, 457, 2317-2335.	2.1	51