Paolo Marcellini

List of Publications by Year
in descending order

67 papers	**3,263** citations	186265 **28** h-index	155660 **55** g-index
69 all docs	**69** docs citations	**69** times ranked	**603** citing authors

#	Article	IF	Citations
1	Regularity and existence of solutions of elliptic equations with p,q-growth conditions. Journal of Differential Equations, 1991, 90, 1-30.	2.2	544
2	Regularity of minimizers of integrals of the calculus of variations with non standard growth conditions. Archive for Rational Mechanics and Analysis, 1989, 105, 267-284.	2.4	424
3	Approximation of quasiconvex functions, and lower semicontinuity of multiple integrals. Manuscripta Mathematica, 1985, 51, 1-28.	0.6	174
4	On the definition and the lower semicontinuity of certain quasiconvex integrals. Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire, 1986, 3, 391-409.	1.4	144
5	Regularity for Elliptic Equations with General Growth Conditions. Journal of Differential Equations, 1993, 105, 296-333.	2.2	142
6	Periodic solutions and homogenization of non linear variational problems. Annali Di Matematica Pura Ed Applicata, 1978, 117, 139-152.	1.0	117
7	Implicit Partial Differential Equations. , 1999, , .		107
8	General existence theorems for Hamilton-Jacobi equations in the scalar and vectorial cases. Acta Mathematica, 1997, 178, 1-37.	3.9	99
9	Nonlinear elliptic systems with general growth. Journal of Differential Equations, 2006, 221, 412-443.	2.2	92
10	Parabolic Systems with p, q-Growth: A Variational Approach. Archive for Rational Mechanics and Analysis, 2013, 210, 219-267.	2.4	83
11	Semicontinuity problems in the calculus of variations. Nonlinear Analysis: Theory, Methods & Applications, 1980, 4, 241-257.	1.1	69
12	Lipschitz estimates for systems with ellipticity conditions at infinity. Annali Di Matematica Pura Ed Applicata, 2016, 195, 1575-1603.	1.0	66
13	Existence of evolutionary variational solutions via the calculus of variations. Journal of Differential Equations, 2014, 256, 3912-3942.	2.2	62
14	Sulla convergenza delle soluzioni di disequazioni variazionali. Annali Di Matematica Pura Ed Applicata, 1976, 110, 137-159.	1.0	60
15	Regularity for some scalar variational problems under general growth conditions. Journal of Optimization Theory and Applications, 1996, 90, 161-181.	1.5	60
16	Growth conditions and regularity for weak solutions to nonlinear elliptic pdes. Journal of Mathematical Analysis and Applications, 2020, 501, 124408.	1.0	60
17	An existence result for a nonconvex variational problem via regularity. ESAIM - Control, Optimisation and Calculus of Variations, 2002, 7, 69-95.	1.3	55
18	Parabolic equations with p,q-growth. Journal Des Mathematiques Pures Et Appliquees, 2013, 100, 535-563.	1.6	46

#	Article	IF	Citations
19	Regularity for scalar integrals without structure conditions. Advances in Calculus of Variations, 2020, 13, 279-300.	1.2	46
20	Local Boundedness of Minimizers with Limit Growth Conditions. Journal of Optimization Theory and Applications, 2015, 166, 1-22.	1.5	43
21	Local boundedness of solutions to quasilinear elliptic systems. Manuscripta Mathematica, 2012, 137, 287-315.	0.6	39
22	Existence of minimizers for non-quasiconvex integrals. Archive for Rational Mechanics and Analysis, 1995, 131, 359-399.	2.4	38
23	Lipschitz continuity for energy integrals with variable exponents. Atti Della Accademia Nazionale Dei Lincei, Classe Di Scienze Fisiche, Matematiche E Naturali, Rendiconti Lincei Matematica E Applicazioni, 2016, 27, 61-87.	0.6	37
24	A variational approach to parabolic equations under general and p,q-growth conditions. Nonlinear Analysis: Theory, Methods & Applications, 2020, 194, 111456.	1.1	37
25	Homogenization of non-uniformly elliptic operatorsâ€. Applicable Analysis, 1978, 8, 101-113.	1.3	35
26	Quasiconvex quadratic forms in two dimensions. Applied Mathematics and Optimization, 1984, 11, 183-189.	1.6	33
27	Relaxation of multiple integrals in subcritical Sobolev spaces. Journal of Geometric Analysis, 1997, 7, 57-81.	1.0	33
28	Regularity of minimizers under limit growth conditions. Nonlinear Analysis: Theory, Methods & Applications, 2017, 153, 294-310.	1.1	33
29	Non convex integrals of the Calculus of Variations. Lecture Notes in Mathematics, 1990, , 16-57.	0.2	30
30	A Time Dependent Variational Approach to Image Restoration. SIAM Journal on Imaging Sciences, 2015, 8, 968-1006.	2.2	30
31	Doubly Nonlinear Equations of Porous Medium Type. Archive for Rational Mechanics and Analysis, 2018, 229, 503-545.	2.4	29
32	Cauchyâ€"Dirichlet Problem for First Order Nonlinear Systems. Journal of Functional Analysis, 1998, 152, 404-446.	1.4	28
33	A general approach to the existence of minimizers of one-dimensional non-coercive integrals of the calculus of variations. Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire, 1991, 8, 197-223.	1.4	25
34	Bounds for the third membrane eigenvalue. Journal of Differential Equations, 1980, 37, 438-443.	2.2	24
35	Nonuniformly elliptic energy integrals with p, q-growth. Nonlinear Analysis: Theory, Methods & Applications, 2018, 177, 312-324.	1.1	22
36	Lipschitz-continuous local isometric immersions: rigid maps and origami. Journal Des Mathematiques Pures Et Appliquees, 2008, 90, 66-81.	1.6	20

#	Article	IF	Citations
37	Elliptic versus parabolic regularization for the equation of prescribed mean curvature*. Journal of Differential Equations, 1997, 137, 1-53.	2.2	18
38	A relation between existence of minima for non convex integrals and uniqueness for non strictly convex integrals of the calculus of variations. Lecture Notes in Mathematics, 1983, , 216-231.	0.2	17
39	On a Volume-Constrained Variational Problem. Archive for Rational Mechanics and Analysis, 1999, 149, 23-47.	2.4	16
40	Nonlocal diffusion equations. Journal of Mathematical Analysis and Applications, 2015, 432, 398-428.	1.0	15
41	The Stored-Energy for Some Discontinuous Deformations in Nonlinear Elasticity. , 1989, , 767-786.		15
42	Regularity under general and <inline-formula><tex-math id="M1">egin{document}$ p,q-$end{document}</tex-math></inline-formula> growth conditions. Discrete and Continuous Dynamical Systems - Series S, 2020, 13, 2009-2031.	1.1	15
43	A-priori gradient bound for elliptic systems under either slow or fast growth conditions. Calculus of Variations and Partial Differential Equations, 2020, 59, 1.	1.7	14
44	On the total variation of the Jacobian. Journal of Functional Analysis, 2004, 207, 1-32.	1.4	12
45	An alternative approach to the Hölder continuity of solutions to some elliptic equations. Nonlinear Analysis: Theory, Methods & Applications, 2014, 94, 133-141.	1.1	12
46	Parabolic equations and the bounded slope condition. Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire, 2017, 34, 355-379.	1.4	11
47	Asymptotic growth for the parabolic equation of prescribed mean curvature. Journal of Differential Equations, 1984, 51, 326-358.	2.2	10
48	An explicit solution to a system of implicit differential equations. Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire, 2008, 25, 163-171.	1.4	9
49	A variational approach to doubly nonlinear equations. Atti Della Accademia Nazionale Dei Lincei, Classe Di Scienze Fisiche, Matematiche E Naturali, Rendiconti Lincei Matematica E Applicazioni, 2018, 29, 739-772.	0.6	9
50	Integral Convexity and Parabolic Systems. SIAM Journal on Mathematical Analysis, 2020, 52, 1489-1525.	1.9	9
51	Regularity under sharp anisotropic general growth conditions. Discrete and Continuous Dynamical Systems - Series B, 2009, 11, 67-86.	0.9	9
52	Boundary regularity for elliptic systems with p,q-growth. Journal Des Mathematiques Pures Et Appliquees, 2022, 159, 250-293.	1.6	9
53	A mathematical framework for optimal foraging of herbivores. Journal of Mathematical Biology, 1995, 33, 365-87.	1.9	8
54	Lipschitz regularity for degenerate elliptic integrals with ?,â€?-growth. Advances in Calculus of Variations, 2023, 16, 443-465.	1.2	8

#	ARTICLE	IF	CITATIONS
55	On the n-dimensional Dirichlet problem for isometric maps. Journal of Functional Analysis, 2008, 255, 3274-3280.	1.4	7
56	Weak lower semicontinuity for polyconvex integrals in the limit case. Calculus of Variations and Partial Differential Equations, 2014, 51, 171-193.	1.7	5
57	Local Lipschitz continuity for energy integrals with slow growth. Annali Di Matematica Pura Ed Applicata, 0, , 1.	1.0	5
58	The Stored-Energy for Some Discontinuous Deformations in Nonlinear Elasticity. , 1989, , 767-786.		5
59	Ã‰quations de type implicite avec contraintes. Comptes Rendus Mathematique, 2000, 330, 271-274.	0.5	4
60	Anisotropic and p,Âq-nonlinear partial differential equations. Rendiconti Lincei, 2020, 31, 295-301.	2.2	4
61	Viscosity solutions, almost everywhere solutions and explicit formulas. Transactions of the American Mathematical Society, 2004, 356, 4643-4653.	0.9	3
62	Weak lower semicontinuity for non coercive polyconvex integrals. Advances in Calculus of Variations, 2008, 1, .	1.2	3
63	Origami and Partial Differential Equations. , 2012, , 241-250.		3
64	General Growth Conditions and Regularity. , 1996, , 111-118.		3
65	The degenerate two well problem for piecewise affine maps. Nonlinear Differential Equations and Applications, 2013, 20, 345-359.	0.8	2
66	Local Lipschitz continuity of minimizers with mild assumptions on the x-dependence. Discrete and Continuous Dynamical Systems - Series S, 2019, 12, 251-265.	1.1	2
67	Some problems of existence, uniqueness and regularity in the calculus of variations. , 1996, , 2089-2096.		0