

Franco Tomarelli

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

500
citations

759233

12
h-index

752698

20
g-index

42
all docs

42
docs citations

42
times ranked

172
citing authors

#	ARTICLE	IF	CITATIONS
1	General existence theorems for unilateral problems in continuum mechanics. <i>Archive for Rational Mechanics and Analysis</i> , 1988, 100, 149-189.	2.4	124
2	A Second Order Model in Image Segmentation: Blake & Zisserman Functional. , 1996, , 57-72.		28
3	Compatibility conditions for nonlinear Neumann problems. <i>Advances in Mathematics</i> , 1991, 89, 127-143.	1.1	22
4	Superposition and Chain Rule for Bounded Hessian Functions. <i>Advances in Mathematics</i> , 1998, 140, 237-281.	1.1	19
5	Strong solution for an elastic-plastic plate. <i>Calculus of Variations and Partial Differential Equations</i> , 1994, 2, 219-240.	1.7	17
6	Euler equations for Blake and Zisserman functional. <i>Calculus of Variations and Partial Differential Equations</i> , 2008, 32, 81-110.	1.7	15
7	Necessary conditions for extremals of Blake & Zisserman functional. <i>Comptes Rendus Mathematique</i> , 2002, 334, 343-348.	0.3	13
8	Calculus of variations and image segmentation. <i>Journal of Physiology (Paris)</i> , 2003, 97, 343-353.	2.1	13
9	A VARIATIONAL PRINCIPLE FOR PLASTIC HINGES IN A BEAM. <i>Mathematical Models and Methods in Applied Sciences</i> , 2009, 19, 2263-2297.	3.3	13
10	A candidate local minimizer of Blake and Zisserman functional. <i>Journal Des Mathematiques Pures Et Appliquees</i> , 2011, 96, 58-87.	1.6	13
11	A Survey on the Blake&Zisserman Functional. <i>Milan Journal of Mathematics</i> , 2015, 83, 397-420.	1.1	13
12	Noncoercive variational inequalities for pseudomonotone operators. <i>Milan Journal of Mathematics</i> , 1991, 61, 141-183.	0.1	12
13	From SBD to SBH: the elastic-plastic plate. <i>Interfaces and Free Boundaries</i> , 2002, 4, 137-165.	0.8	12
14	A nonlinear and nonlocal evolution equation describing the muscle contraction. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 1987, 11, 163-182.	1.1	11
15	FROM SPECIAL BOUNDED DEFORMATION TO SPECIAL BOUNDED HESSIAN: THE ELASTIC&PLASTIC BEAM. <i>Mathematical Models and Methods in Applied Sciences</i> , 2005, 15, 1009-1058.	3.3	11
16	Fractional sobolev spaces and functions of bounded variation of one variable. <i>Fractional Calculus and Applied Analysis</i> , 2017, 20, 936-962.	2.2	11
17	Adhesive flexible material structures. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2012, 17, 553-574.	0.9	11
18	Regularity theorems and optimal error estimates for linear parabolic Cauchy problems. <i>Numerische Mathematik</i> , 1984, 45, 23-50.	1.9	10

#	ARTICLE	IF	CITATIONS
19	The obstacle problem for an elastoplastic body. <i>Applied Mathematics and Optimization</i> , 1990, 21, 89-110.	1.6	10
20	A New Variational Approach to Linearization of Traction Problems in Elasticity. <i>Journal of Optimization Theory and Applications</i> , 2019, 182, 383-403.	1.5	10
21	Local and non-local energies in adhesive interaction. <i>IMA Journal of Applied Mathematics</i> , 2016, 81, 1051-1075.	1.6	9
22	The Gap Between Linear Elasticity and the Variational Limit of Finite Elasticity in Pure Traction Problems. <i>Archive for Rational Mechanics and Analysis</i> , 2019, 234, 1091-1120.	2.4	9
23	Free gradient discontinuity and image inpainting. <i>Journal of Mathematical Sciences</i> , 2012, 181, 805-819.	0.4	8
24	Variational Problems for Föppl-von Kármán Plates. <i>SIAM Journal on Mathematical Analysis</i> , 2018, 50, 251-282.	1.9	8
25	Density Estimates and Further Properties of Blake Zisserman Functional. <i>Nonconvex Optimization and Its Applications</i> , 2001, , 381-392.	0.1	8
26	Uniform density estimates for Blake & Zisserman functional. <i>Discrete and Continuous Dynamical Systems</i> , 2011, 31, 1129-1150.	0.9	8
27	A uniqueness result for a nonlinear hyperbolic equation. <i>Annali Di Matematica Pura Ed Applicata</i> , 1984, 137, 175-205.	1.0	7
28	Generic uniqueness of minimizer for Blake & Zisserman functional. <i>Revista Matematica Complutense</i> , 2013, 26, 361-408.	1.2	6
29	Smooth and Creased Equilibria for Elastic-plastic Plates and Beams. , 2006, , 127-136.		6
30	Smooth and Broken Minimizers of Some Free Discontinuity Problems. <i>Springer INdAM Series</i> , 2017, , 431-468.	0.5	5
31	A quasi-variational problem in nonlinear elasticity. <i>Annali Di Matematica Pura Ed Applicata</i> , 1991, 158, 331-389.	1.0	4
32	Image inpainting via variational approximation of a Dirichlet problem with free discontinuity. <i>Advances in Calculus of Variations</i> , 2014, 7, .	1.2	4
33	Local Minimizers for a Free Gradient Discontinuity Problem in Image Segmentation. , 2002, , 67-80.		4
34	Weak solution for an abstract Cauchy problem of parabolic type. <i>Annali Di Matematica Pura Ed Applicata</i> , 1983, 133, 93-123.	1.0	3
35	Signorini problem in Hencky plasticity. <i>Annali Dell'Universita Di Ferrara</i> , 1990, 36, 73-84.	1.3	3
36	Two-plate problems in linear elasticity. <i>Meccanica</i> , 1988, 23, 51-56.	2.0	2

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37	Plastic Hinges in a Beam. Springer Optimization and Its Applications, 2009, , 343-348.	0.9	2
38	Elastic Structures in Adhesion Interaction. Springer Optimization and Its Applications, 2012, , 289-304.	0.9	2
39	Special Bounded Hessian and Partial Regularity of Equilibrium for a Plastic Plate. , 1992, , 235-240.		2
40	Riemannâ€“Liouville Fractional Sobolev and Bounded Variation Spaces. Axioms, 2022, 11, 30.	1.9	2