Ulisse Stefanelli

List of Publications by Year
in descending order

127 papers	1,807 citations	279798 23 h-index	345221 36 g-index
130 all docs	130 docs citations	130 times ranked	571 citing authors

#	Article	IF	Citations
1	Doubly nonlinear stochastic evolution equations II. Stochastics and Partial Differential Equations: Analysis and Computations, 2023, 11, 307-347.	0.9	3
2	A minimizing-movements approach to GENERIC systems. Mathematics in Engineering, 2022, 4, 1-18.	0.9	1
3	Equilibria of Charged Hyperelastic Solids. SIAM Journal on Mathematical Analysis, 2022, 54, 1470-1487.	1.9	0
4	Topology optimization for quasistatic elastoplasticity. ESAIM - Control, Optimisation and Calculus of Variations, 2022, 28, 47.	1.3	3
5	Linearization for finite plasticity under dislocation-density tensor regularization. Continuum Mechanics and Thermodynamics, 2021, 33, 179-208.	2.2	1
6	Magnetoelastic thin films at large strains. Continuum Mechanics and Thermodynamics, 2021, 33, 327-341.	2.2	7
7	A finite-strain model for incomplete damage in elastoplastic materials. Computer Methods in Applied Mechanics and Engineering, 2021, 374, 113571.	6.6	0
8	Stochastic PDEs via convex minimization. Communications in Partial Differential Equations, 2021, 46, 66-97.	2.2	4
9	Rate-independent evolution of sets. Discrete and Continuous Dynamical Systems - Series S, 2021, 14, 89-119.	1.1	0
10	Topology Optimization for Incremental Elastoplasticity: A Phase-Field Approach. SIAM Journal on Control and Optimization, 2021, 59, 339-364.	2.1	10
11	Equilibrium of immersed hyperelastic solids. Discrete and Continuous Dynamical Systems - Series S, 2021, 14, 4141.	1.1	0
12	A note about hardening-free viscoelastic models in Maxwellian-type rheologies at large strains. Mathematics and Mechanics of Solids, 2021, 26, 1483-1497.	2.4	5
13	Mixed variational formulations for structural topology optimization based on the phase-field approach. Structural and Multidisciplinary Optimization, 2021, 64, 2627-2652.	3.5	7
14	Lattice ground states for embedded-atom models in 2D and 3D. Letters in Mathematical Physics, 2021, 111, 1.	1.1	5
15	Stability of $Z2$ configurations in 3D. Nonlinearity, 2021, 34, 8392-8413.	1.4	0
16	An order approach to SPDEs with antimonotone terms. Stochastics and Partial Differential Equations: Analysis and Computations, 2020, 8, 819-832.	0.9	1
17	Pinning of interfaces by localized dry friction. Journal of Differential Equations, 2020, 269, 7356-7381.	2.2	2
18	Ripples in Graphene: A Variational Approach. Communications in Mathematical Physics, 2020, 379, 915-954.	2.2	1

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19	Equilibrium for Multiphase Solids with Eulerian Interfaces. Journal of Elasticity, 2020, 142, 409-431.	1.9	4
20	Existence of varifold minimizers for the multiphase Canham–Helfrich functional. Calculus of Variations and Partial Differential Equations, 2020, 59, 1.	1.7	11
21	Doubly nonlinear stochastic evolution equations. Mathematical Models and Methods in Applied Sciences, 2020, 30, 991-1031.	3.3	7
22	Crystallization in a One-Dimensional Periodic Landscape. Journal of Statistical Physics, 2020, 179, 485-501.	1.2	4
23	Quasistatic evolution for dislocation-free finite plasticity. ESAIM - Control, Optimisation and Calculus of Variations, 2020, 26, 123.	1.3	10
24	Well-posedness of a one-dimensional nonlinear kinematic hardening model. Discrete and Continuous Dynamical Systems - Series S, 2020, 13, 2271-2284.	1.1	0
25	Finite thermoelastoplasticity and creep under small elastic strains. Mathematics and Mechanics of Solids, 2019, 24, 1161-1181.	2.4	4
26	Weighted Energy-Dissipation principle for gradient flows in metric spaces. Journal Des Mathematiques Pures Et Appliquees, 2019, 127, 1-66.	1.6	7
27	Existence for dislocation-free finite plasticity. ESAIM - Control, Optimisation and Calculus of Variations, 2019, 25, 21.	1.3	7
28	$$N^{3/4}$$ Law in the Cubic Lattice. Journal of Statistical Physics, 2019, 176, 1480-1499.	1.2	9
29	Two Structure-Preserving Time Discretizations for Gradient Flows. Applied Mathematics and Optimization, 2019, 80, 733-764.	1.6	3
30	Dynamic perfect plasticity and damage in viscoelastic solids. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2019, 99, e201800161.	1.6	4
31	A Phase-Field Approach to Eulerian Interfacial Energies. Archive for Rational Mechanics and Analysis, 2019, 234, 351-373.	2.4	13
32	Dynamic Perfect Plasticity as Convex Minimization. SIAM Journal on Mathematical Analysis, 2019, 51, 672-730.	1.9	7
33	Characterization of Optimal Carbon Nanotubes Under Stretching and Validation of the Cauchy–Born Rule. Archive for Rational Mechanics and Analysis, 2019, 231, 465-517.	2.4	2
34	Weighted Energy-Dissipation approach to doubly nonlinear problems on the half line. Journal of Evolution Equations, 2018, 18, 49-74.	1.1	6
35	Chain-like ground states in three dimensions. Transactions of Mathematics and Its Applications, 2018, 2, .	3.3	2
36	Thermodynamics of Elastoplastic Porous Rocks at Large Strains Towards Earthquake Modeling. SIAM Journal on Applied Mathematics, 2018, 78, 2597-2625.	1.8	6

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37	A variational approach to Navierâ€"Stokes. Nonlinearity, 2018, 31, 5664-5682.	1.4	4
38	Graphene ground states. Zeitschrift Fur Angewandte Mathematik Und Physik, 2018, 69, 1.	1.4	5
39	Quasistatic elastoplasticity via Peridynamics: existence and localization. Continuum Mechanics and Thermodynamics, 2018, 30, 1155-1184.	2.2	8
40	Stable carbon configurations. Bolletino Dell Unione Matematica Italiana, 2017, 10, 335-354.	1.0	4
41	Carbon-Nanotube Geometries as Optimal Configurations. Multiscale Modeling and Simulation, 2017, 15, 1448-1471.	1.6	8
42	Finite Plasticity in $P^op!P$. Part II: Quasi-Static Evolution and Linearization. SIAM Journal on Mathematical Analysis, 2017, 49, 1356-1384.	1.9	13
43	Sharp $$N^{3/4}$$ N 3 / 4 Law for the Minimizers of the Edge-Isoperimetric Problem on the Triangular Lattice. Journal of Nonlinear Science, 2017, 27, 627-660.	2.1	19
44	Finite plasticity in $$varvec{P}^op ! varvec{P}$$ P âŠ®P . Part I: constitutive model. Continuum Mechanics and Thermodynamics, 2017, 29, 97-116.	2.2	12
45	Carbon-nanotube geometries: Analytical and numerical results. Discrete and Continuous Dynamical Systems - Series S, 2017, 10, 141-160.	1.1	2
46	Optimal control of a rate-independent evolution equation via viscous regularization. Discrete and Continuous Dynamical Systems - Series S, 2017, 10, 1467-1485.	1.1	4
47	Existence and linearization for the Souza-Auricchio model at finite strains. Discrete and Continuous Dynamical Systems - Series S, 2017, 10, 1257-1280.	1.1	0
48	Preface: Applications of mathematics to mechanics. Discrete and Continuous Dynamical Systems - Series S, 2017, 10, â…°-â…±.	1.1	0
49	Nondecreasing Solutions to Doubly Nonlinear Equations. Springer INdAM Series, 2017, , 31-53.	0.5	0
50	Gradient structures for the thermomechanics of shape-memory materials. Computer Methods in Applied Mechanics and Engineering, 2016, 299, 440-469.	6.6	7
51	Wulff shape emergence in graphene. Mathematical Models and Methods in Applied Sciences, 2016, 26, 2277-2310.	3.3	19
52	The Geometry of C_{60}: A Rigorous Approach via Molecular Mechanics. SIAM Journal on Applied Mathematics, 2016, 76, 2009-2029.	1.8	7
53	Existence results for incompressible magnetoelasticity. Discrete and Continuous Dynamical Systems, 2015, 35, 2615-2623.	0.9	16
54	Quasistatic evolution of magnetoelastic plates via dimension reduction. Discrete and Continuous Dynamical Systems, 2015, 35, 5999-6013.	0.9	4

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55	A phenomenological model for the magneto-mechanical response of single-crystal magnetic shape memory alloys. European Journal of Mechanics, A/Solids, 2015, 52, 1-11.	3.7	13
56	The Souza-Auricchio model for shape-memory alloys. Discrete and Continuous Dynamical Systems - Series S, 2015, 8, 723-747.	1.1	7
57	Finite crystallization in the square lattice. Nonlinearity, 2014, 27, 717-737.	1.4	34
58	Magnetic shape-memory alloys: thermomechanical modelling and analysis. Continuum Mechanics and Thermodynamics, 2014, 26, 783-810.	2.2	16
59	Stability Results for Doubly Nonlinear Differential Inclusions by Variational Convergence. SIAM Journal on Control and Optimization, 2014, 52, 1071-1107.	2.1	9
60	Doubly Nonlinear Equations as Convex Minimization. SIAM Journal on Mathematical Analysis, 2014, 46, 1922-1945.	1.9	25
61	A phenomenological model for microstructure-dependent inelasticity in shape-memory alloys. Meccanica, 2014, 49, 2265-2283.	2.0	10
62	Crystallization in Carbon Nanostructures. Communications in Mathematical Physics, 2014, 328, 545-571.	2.2	39
63	Crystalline and Isoperimetric Square Configurations. Proceedings in Applied Mathematics and Mechanics, 2014, 14, 1045-1048.	0.2	8
64	Shape flows for spectral optimization problems. Interfaces and Free Boundaries, 2013, 14, 521-544.	0.8	1
65	A macroscopic model for magnetic shape-memory single crystals. Zeitschrift Fur Angewandte Mathematik Und Physik, 2013, 64, 343-359.	1.4	7
66	A New Minimum Principle for Lagrangian Mechanics. Journal of Nonlinear Science, 2013, 23, 179-204.	2.1	19
67	Linearized plasticity is the evolutionary $Gamma$-limit of finite plasticity. Journal of the European Mathematical Society, 2013, 15, 923-948.	1.4	27
68	Thermal control of the Souza-Auricchio model for shape memory alloys. Discrete and Continuous Dynamical Systems - Series S, 2013, 6, 369-386.	1.1	6
69	Preface: Rate-independent evolutions. Discrete and Continuous Dynamical Systems - Series S, 2013, 6, i-ii.	1.1	0
70	Magnetic control of magnetic shape-memory single crystals. Physica B: Condensed Matter, 2012, 407, 1316-1321.	2.7	11
71	Existence and time-discretization for the finite-strain Souzaâ€"Auricchio constitutive model for shape-memory alloys. Continuum Mechanics and Thermodynamics, 2012, 24, 63-77.	2.2	10
72	Young-Measure Quasi-Static Damage Evolution. Archive for Rational Mechanics and Analysis, 2012, 203, 415-453.	2.4	15

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73	A variational principle for gradient flows in metric spaces. Comptes Rendus Mathematique, 2011, 349, 1225-1228.	0.3	9
74	Periodic solutions for doubly nonlinear evolution equations. Journal of Differential Equations, 2011, 251, 1790-1812.	2.2	11
75	A variational view at the time-dependent minimal surface equation. Journal of Evolution Equations, 2011, 11, 793-809.	1.1	14
76	A three‐dimensional phenomenological model for Magnetic Shape Memory Alloys. GAMM Mitteilungen, 2011, 34, 90-96.	5.5	20
77	Global attractors for gradient flows in metric spaces. Journal Des Mathematiques Pures Et Appliquees, 2011, 95, 205-244.	1.6	10
78	Weighted energy-dissipation functionals for doubly nonlinear evolution. Journal of Functional Analysis, 2011, 260, 2541-2578.	1.4	24
79	Weighted energy-dissipation functionals for gradient flows. ESAIM - Control, Optimisation and Calculus of Variations, 2011, 17, 52-85.	1.3	28
80	THE DE GIORGI CONJECTURE ON ELLIPTIC REGULARIZATION. Mathematical Models and Methods in Applied Sciences, 2011, 21, 1377-1394.	3.3	28
81	MAGNETIC SHAPE MEMORY ALLOYS: THREE-DIMENSIONAL MODELING AND ANALYSIS. Mathematical Models and Methods in Applied Sciences, 2011, 21, 1043-1069.	3.3	20
82	QUASISTATIC ISOTHERMAL EVOLUTION OF SHAPE MEMORY ALLOYS. Mathematical Models and Methods in Applied Sciences, 2011, 21, 2409-2432.	3.3	4
83	A rate-independent model for permanent inelastic effects in shape memory materials. Networks and Heterogeneous Media, 2011, 6, 145-165.	1.1	11
84	A variational principle for doubly nonlinear evolution. Applied Mathematics Letters, 2010, 23, 1120-1124.	2.7	20
85	Error Estimates for Space-Time Discretizations of a Rate-Independent Variational Inequality. SIAM Journal on Numerical Analysis, 2010, 48, 1625-1646.	2.3	25
86	Error Bounds for Space-Time Discretizations of a 3D Model for Shape-Memory Materials. IUTAM Symposium on Cellular, Molecular and Tissue Mechanics, 2010, , 185-197.	0.2	5
87	Well-posedness of a thermo-mechanical model for shape memory alloys under tension. ESAIM: Mathematical Modelling and Numerical Analysis, 2010, 44, 1239-1253.	1.9	11
88	A variational characterization of rate‐independent evolution. Mathematische Nachrichten, 2009, 282, 1492-1512.	0.8	28
89	A macroscopic 1D model for shape memory alloys including asymmetric behaviors and transformation-dependent elastic properties. Computer Methods in Applied Mechanics and Engineering, 2009, 198, 1631-1637.	6.6	87
90	Γ-limits and relaxations for rate-independent evolutionary problems. Calculus of Variations and Partial Differential Equations, 2008, 31, 387-416.	1.7	149

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91	A Variational Principle for Hardening Elastoplasticity. SIAM Journal on Mathematical Analysis, 2008, 40, 623-652.	1.9	21
92	The Brezisâ€"Ekeland Principle for Doubly Nonlinear Equations. SIAM Journal on Control and Optimization, 2008, 47, 1615-1642.	2.1	55
93	A discrete variational principle for rate-independent evolution. Advances in Calculus of Variations, 2008, 1, .	1.2	24
94	A RATE-INDEPENDENT MODEL FOR THE ISOTHERMAL QUASI-STATIC EVOLUTION OF SHAPE-MEMORY MATERIALS. Mathematical Models and Methods in Applied Sciences, 2008, 18, 125-164.	3.3	48
95	A Counterexample to $C^{2,1}$ Regularity for Parabolic Fully Nonlinear Equations. Communications in Partial Differential Equations, 2008, 33, 1216-1234.	2.2	13
96	Positivity of the temperature for phase transitions with micro-movements. Nonlinear Analysis: Real World Applications, 2007, 8, 257-266.	1.7	7
97	Existence for a doubly nonlinear Volterra equation. Journal of Mathematical Analysis and Applications, 2007, 333, 839-862.	1.0	5
98	Attractors for Gradient Flows of Nonconvex Functionals and Applications. Archive for Rational Mechanics and Analysis, 2007, 187, 91-135.	2.4	24
99	A three-dimensional model describing stress-induced solid phase transformation with permanent inelasticity. International Journal of Plasticity, 2007, 23, 207-226.	8.8	216
100	Well-posedness and long-time behavior for a class of doubly nonlinear equations. Discrete and Continuous Dynamical Systems, 2007, 18, 15-38.	0.9	33
101	ANALYSIS OF A 1-D THERMOVISCOELASTIC MODEL WITH TEMPERATURE-DEPENDENT VISCOSITY. Series on Advances in Mathematics for Applied Sciences, 2006, , 225-246.	0.1	0
102	Time-discretization and global solution for a doubly nonlinear Volterra equation. Journal of Differential Equations, 2006, 228, 707-736.	2.2	15
103	Nonlocal quasivariational evolution problems. Journal of Differential Equations, 2006, 229, 204-228.	2.2	15
104	Analysis of a variable time-step discretization for a phase transition model with micro-movements. Communications on Pure and Applied Analysis, 2006, 5, 659-673.	0.8	1
105	WELL-POSEDNESS AND APPROXIMATION FOR A ONE-DIMENSIONAL MODEL FOR SHAPE MEMORY ALLOYS. Mathematical Models and Methods in Applied Sciences, 2005, 15, 1301-1327.	3.3	9
106	Analysis of a Thermomechanical Model for Shape Memory Alloys. SIAM Journal on Mathematical Analysis, 2005, 37, 130-155.	1.9	5
107	Study of a system for the isothermal separation of components in a binary alloy with change of phase. IMA Journal of Applied Mathematics, 2004, 69, 233-257.	1.6	2
108	On some nonlocal evolution equations in Banach spaces. Journal of Evolution Equations, 2004, 4, 1-26.	1.1	18

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109	A Quasi-Stationary Phase-Field Model with Micro-Movements. Applied Mathematics and Optimization, 2004, 50, 67.	1.6	1
110	Diffusion in poro-plastic media. Mathematical Methods in the Applied Sciences, 2004, 27, 2131-2151.	2.3	30
111	Numerical analysis of a three-dimensional super-elastic constitutive model. International Journal for Numerical Methods in Engineering, 2004, 61, 142-155.	2.8	13
112	Structure result for steady-state solutions of a one-dimensional Frémond model of SMA. Physica D: Nonlinear Phenomena, 2004, 190, 190-212.	2.8	2
113	A generalized phase relaxation model with hysteresis. Nonlinear Analysis: Theory, Methods & Applications, 2003, 55, 381-398.	1.1	3
114	Phase-Field Models with Hysteresis in One-Dimensional Thermoviscoplasticity. SIAM Journal on Mathematical Analysis, 2002, 34, 409-434.	1.9	25
115	Analysis of a variable time-step discretization of the three-dimensional Frémond model for shape memory alloys. Mathematics of Computation, 2002, 71, 1431-1454.	2.1	6
116	Global solution to a phase field model with irreversible and constrained phase evolution. Quarterly of Applied Mathematics, 2002, 60, 301-316.	0.7	26
117	Existence Result for the One-Dimensional Full Model of Phase Transitions. Zeitschrift Fur Analysis Und Ihre Anwendung, 2002, 21, 335-350.	0.6	22
118	Global existence for a class of generalized systems for irreversible phase changes. Nonlinear Differential Equations and Applications, 2002, 9, 255-276.	0.8	27
119	Boundedness of the temperature for the general Frémond model for shape memory alloys. Zeitschrift Fur Angewandte Mathematik Und Physik, 2002, 53, 704-711.	1.4	0
120	Global existence of a strong solution to the one-dimensional full model for irreversible phase transitions. Journal of Mathematical Analysis and Applications, 2002, 271, 426-442.	1.0	27
121	Analysis of a variable time-step discretization for the Penrose–Fife phase relaxation problem. Nonlinear Analysis: Theory, Methods & Applications, 2001, 45, 213-240.	1.1	3
122	EXISTENCE RESULT FOR A NONLINEAR MODEL RELATED TO IRREVERSIBLE PHASE CHANGES. Mathematical Models and Methods in Applied Sciences, 2001, 11, 809-825.	3.3	23
123	Well-Posedness and Time Discretization of a Nonlinear Volterra Integrodifferential Equation. Journal of Integral Equations and Applications, 2001, 13, .	0.6	13
124	Long-time behavior for the full one-dimensional Frémond model for shape memory alloys. Continuum Mechanics and Thermodynamics, 2000, 12, 423-433.	2.2	7
125	Error Control Of A Nonlinear Evolution Problem Related To Phase Transitions. Numerical Functional Analysis and Optimization, 1999, 20, 585-608.	1.4	4
126	Tilings with Nonflat Squares: A Characterization. Milan Journal of Mathematics, 0, , 1.	1.1	0

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127	Existence results for a morphoelastic model. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 0, , .	1.6	1