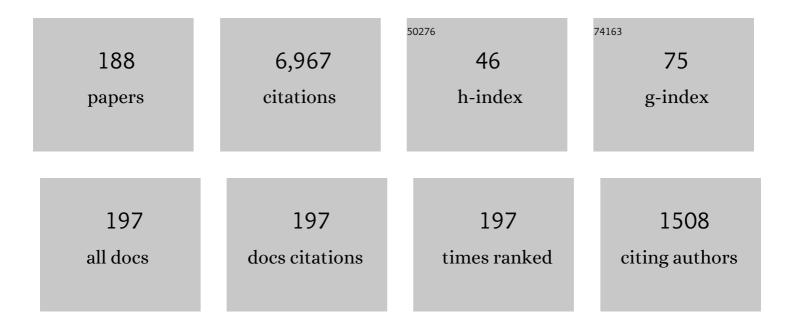
List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Non–convex potentials and microstructures in finite–strain plasticity. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2002, 458, 299-317.	2.1	296
2	A Variational Formulation of¶Rate-Independent Phase Transformations¶Using an Extremum Principle. Archive for Rational Mechanics and Analysis, 2002, 162, 137-177.	2.4	242
3	Evolution of Rate-Independent Systems. Handbook of Differential Equations: Evolutionary Equations, 2005, 2, 461-559.	0.9	222
4	On rate-independent hysteresis models. Nonlinear Differential Equations and Applications, 2004, 11, 151.	0.8	183
5	Reduction of quasilinear elliptic equations in cylindrical domains with applications. Mathematical Methods in the Applied Sciences, 1988, 10, 51-66.	2.3	172
6	A gradient structure for reaction–diffusion systems and for energy-drift-diffusion systems. Nonlinearity, 2011, 24, 1329-1346.	1.4	168
7	Rate-Independent Systems. Applied Mathematical Sciences (Switzerland), 2015, , .	0.8	159
8	The validity of modulation equations for extended systems with cubic nonlinearities. Proceedings of the Royal Society of Edinburgh Section A: Mathematics, 1992, 122, 85-91.	1.2	156
9	Attractors for modulation equations on unbounded domains-existence and comparison. Nonlinearity, 1995, 8, 743-768.	1.4	152
10	Γ-limits and relaxations for rate-independent evolutionary problems. Calculus of Variations and Partial Differential Equations, 2008, 31, 387-416.	1.7	149
11	Existence results for energetic models for rate-independent systems. Calculus of Variations and Partial Differential Equations, 2005, 22, 73-99.	1.7	146
12	Energetic formulation of multiplicative elasto-plasticity using dissipation distances. Continuum Mechanics and Thermodynamics, 2003, 15, 351-382.	2.2	137
13	Optimal Entropy-Transport problems and a new Hellinger–Kantorovich distance between positive measures. Inventiones Mathematicae, 2018, 211, 969-1117.	2.5	105
14	On the Relation between Gradient Flows and the Large-Deviation Principle, with Applications to Markov Chains and Diffusion. Potential Analysis, 2014, 41, 1293-1327.	0.9	103
15	RATE-INDEPENDENT DAMAGE PROCESSES IN NONLINEAR ELASTICITY. Mathematical Models and Methods in Applied Sciences, 2006, 16, 177-209.	3.3	98
16	A reduction principle for nonautonomous systems in infinite-dimensional spaces. Journal of Differential Equations, 1986, 65, 68-88.	2.2	95
17	ON THE INVISCID LIMIT OF A MODEL FOR CRACK PROPAGATION. Mathematical Models and Methods in Applied Sciences, 2008, 18, 1529-1569.	3.3	94
18	Geodesic convexity of the relative entropy in reversible Markov chains. Calculus of Variations and Partial Differential Equations, 2013, 48, 1-31.	1.7	93

#	Article	IF	CITATIONS
19	The complex Ginzburg - Landau equation on large and unbounded domains: sharper bounds and attractors. Nonlinearity, 1997, 10, 199-222.	1.4	89
20	A Rate-Independent Model for Inelastic Behavior of Shape-Memory Alloys. Multiscale Modeling and Simulation, 2003, 1, 571-597.	1.6	88
21	Spatially complex equilibria of buckled rods. Archive for Rational Mechanics and Analysis, 1988, 101, 319-348.	2.4	86
22	Modelling of Microstructure and its Evolution in Shape-Memory-Alloy Single-Crystals, in Particular in CuAlNi. Meccanica, 2005, 40, 389-418.	2.0	86
23	Existence results for a class of rate-independent material models with nonconvex elastic energies. Journal Fur Die Reine Und Angewandte Mathematik, 2006, 2006, .	0.9	86
24	Formulation of thermoelastic dissipative material behavior using GENERIC. Continuum Mechanics and Thermodynamics, 2011, 23, 233-256.	2.2	84
25	BV solutions and viscosity approximations of rate-independent systems. ESAIM - Control, Optimisation and Calculus of Variations, 2012, 18, 36-80.	1.3	83
26	A proof of the Benjamin-Feir instability. Archive for Rational Mechanics and Analysis, 1995, 133, 145-198.	2.4	82
27	Global Existence for Rate-Independent Gradient Plasticity at Finite Strain. Journal of Nonlinear Science, 2009, 19, 221-248.	2.1	76
28	Damage of nonlinearly elastic materials at small strain – Existence and regularity results –. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2010, 90, 88-112.	1.6	70
29	The Ginzburg-Landau Equation in Its Role as a Modulation Equation* *The research was partially supported by DFG-SPP "Dynamische Systeme―under Mi 459/2 and by Volkswagen-Stiftung under 1/71016 Handbook of Dynamical Systems, 2002, 2, 759-834.	0.6	69
30	Instability and Stability of Rolls in the Swift-Hohenberg Equation. Communications in Mathematical Physics, 1997, 189, 829-853.	2.2	68
31	Two-Scale Homogenization for Evolutionary Variational Inequalities via the Energetic Formulation. SIAM Journal on Mathematical Analysis, 2007, 39, 642-668.	1.9	68
32	Modeling solutions with jumps for rate-independent systems on metric spaces. Discrete and Continuous Dynamical Systems, 2009, 25, 585-615.	0.9	68
33	Optimal Transport in Competition with Reaction: The HellingerKantorovich Distance and Geodesic Curves. SIAM Journal on Mathematical Analysis, 2016, 48, 2869-2911.	1.9	63
34	A class of minimum principles for characterizing the trajectories and the relaxation of dissipative systems. ESAIM - Control, Optimisation and Calculus of Variations, 2008, 14, 494-516.	1.3	62
35	Saint-Venant's problem and semi-inverse solutions in nonlinear elasticity. Archive for Rational Mechanics and Analysis, 1988, 102, 205-229.	2.4	61
36	Lower semicontinuity and existence of minimizers in incremental finite-strain elastoplasticity. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2006, 86, 233-250.	1.6	58

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37	Macroscopic Behavior of Microscopic Oscillations in Harmonic Lattices via Wigner-Husimi Transforms. Archive for Rational Mechanics and Analysis, 2006, 181, 401-448.	2.4	58
38	A spatial dynamics approach to three-dimensional gravity-capillary steady water waves. Proceedings of the Royal Society of Edinburgh Section A: Mathematics, 2001, 131, 83-136.	1.2	57
39	A new identity for the surface–impedance matrix and its application to the determination of surface-wave speeds. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2002, 458, 2523-2543.	2.1	57
40	Nonsmooth analysis of doubly nonlinear evolution equations. Calculus of Variations and Partial Differential Equations, 2013, 46, 253-310.	1.7	57
41	A Rate-Independent Approach to the Delamination Problem. Mathematics and Mechanics of Solids, 2006, 11, 423-447.	2.4	56
42	Normal hyperbolicity of center manifolds and Saint-Venant's principle. Archive for Rational Mechanics and Analysis, 1990, 110, 353-372.	2.4	55
43	Existence of Minimizers in Incremental Elasto-Plasticity with Finite Strains. SIAM Journal on Mathematical Analysis, 2004, 36, 384-404.	1.9	55
44	EXISTENCE AND UNIQUENESS RESULTS FOR A CLASS OF RATE-INDEPENDENT HYSTERESIS PROBLEMS. Mathematical Models and Methods in Applied Sciences, 2007, 17, 81-123.	3.3	53
45	Finite Elastoplasticity Lie Groups and Geodesics on SL(d). , 2002, , 61-90.		52
46	Gradient structures and geodesic convexity for reaction–diffusion systems. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2013, 371, 20120346.	3.4	51
47	The nonlinear SchrĶdinger equation as a macroscopic limit for an oscillator chain with cubic nonlinearities. Nonlinearity, 2004, 17, 551-565.	1.4	49
48	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
49	On Evolutionary \$\$varGamma \$\$ Γ -Convergence for Gradient Systems. Lecture Notes in Applied Mathematics and Mechanics, 2016, , 187-249.	1.1	47
50	Essential Manifolds for an Elliptic Problem in an Infinite Strip. Journal of Differential Equations, 1994, 110, 322-355.	2.2	46
51	Deriving new evolution equations for microstructures via relaxation of variational incremental problems. Computer Methods in Applied Mechanics and Engineering, 2004, 193, 5095-5127.	6.6	46
52	From Discrete Visco-Elasticity to Continuum Rate-Independent Plasticity: Rigorous Results. Archive for Rational Mechanics and Analysis, 2012, 203, 577-619.	2.4	44
53	Crack growth in polyconvex materials. Physica D: Nonlinear Phenomena, 2010, 239, 1470-1484.	2.8	41
54	Balanced Viscosity (BV) solutions to infinite-dimensional rate-independent systems. Journal of the European Mathematical Society, 2016, 18, 2107-2165.	1.4	41

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55	A gradient structure for systems coupling reaction–diffusion effects in bulk and interfaces. Zeitschrift Fur Angewandte Mathematik Und Physik, 2013, 64, 29-52.	1.4	40
56	Differential, Energetic, and Metric Formulations for Rate-Independent Processes. Lecture Notes in Mathematics, 2011, , 87-170.	0.2	40
57	Quasiconvexity at the Boundary and a Simple Variational Formulation of Agmon's Condition. , 1998, 51, 23-41.		39
58	Complete damage in elastic and viscoelastic media and its energetics. Computer Methods in Applied Mechanics and Engineering, 2010, 199, 1242-1253.	6.6	39
59	A complete-damage problem at small strains. Zeitschrift Fur Angewandte Mathematik Und Physik, 2009, 60, 205-236.	1.4	37
60	Passing to the limit in a Wasserstein gradient flow: from diffusion to reaction. Calculus of Variations and Partial Differential Equations, 2012, 44, 419-454.	1.7	37
61	A Generalization of Onsager's Reciprocity Relations to Gradient Flows with Nonlinear Mobility. Journal of Non-Equilibrium Thermodynamics, 2016, 41, 141-149.	4.2	37
62	�ber maximaleL p-Regularitï;½t f�r Differentialgleichungen in Banach- und Hilbert-R�umen. Mathematisch Annalen, 1987, 277, 121-133.	າe 1.4	36
63	Numerical approaches to rate-independent processes and applications in inelasticity. ESAIM: Mathematical Modelling and Numerical Analysis, 2009, 43, 399-428.	1.9	36
64	Quasi-Static Small-Strain Plasticity in the Limit of Vanishing Hardening and Its Numerical Approximation. SIAM Journal on Numerical Analysis, 2012, 50, 951-976.	2.3	36
65	Micro–macro transition in the atomic chain via Whitham's modulation equation. Nonlinearity, 2006, 19, 471-500.	1.4	33
66	Energy release rate for cracks in finiteâ€strain elasticity. Mathematical Methods in the Applied Sciences, 2008, 31, 501-528.	2.3	33
67	Thermomechanical modeling of energy-reaction-diffusion systems, including bulk-interface interactions. Discrete and Continuous Dynamical Systems - Series S, 2013, 6, 479-499.	1.1	33
68	Rate-independent elastoplasticity at finite strains and its numerical approximation. Mathematical Models and Methods in Applied Sciences, 2016, 26, 2203-2236.	3.3	32
69	From Damage to Delamination in Nonlinearly Elastic Materials at Small Strains. Journal of Elasticity, 2012, 109, 235-273.	1.9	31
70	An Entropic Gradient Structure for Lindblad Equations and Couplings of Quantum Systems to Macroscopic Models. Journal of Statistical Physics, 2017, 167, 205-233.	1.2	31
71	Bounds for the solutions of the complex Ginzburg-Landau equation in terms of the dispersion parameters. Physica D: Nonlinear Phenomena, 1998, 117, 106-116.	2.8	30
72	On the energetic stability of solitary water waves. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2002, 360, 2337-2358.	3.4	30

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73	A Mathematical Framework for Generalized Standard Materials in the Rate-Independent Case. , 2006, , 399-428.		30
74	On Uniform Decay of the Entropy for Reaction–Diffusion Systems. Journal of Dynamics and Differential Equations, 2015, 27, 897-928.	1.9	29
75	Errata to "The free energy of mixing for n-variant martensitic phase transformations using quasi-convex analysis†Journal of the Mechanics and Physics of Solids, 2003, 51, 763.	4.8	28
76	Padé approximant for refractive index and nonlocal envelope equations. Optics Communications, 2010, 283, 480-485.	2.1	28
77	Weighted energy-dissipation functionals for gradient flows. ESAIM - Control, Optimisation and Calculus of Variations, 2011, 17, 52-85.	1.3	28
78	Linearized plasticity is the evolutionary \$Gamma\$-limit of finite plasticity. Journal of the European Mathematical Society, 2013, 15, 923-948.	1.4	27
79	Non-equilibrium Thermodynamical Principles for Chemical Reactions with Mass-Action Kinetics. SIAM Journal on Applied Mathematics, 2017, 77, 1562-1585.	1.8	27
80	An energetic material model for time-dependent ferroelectric behaviour: existence and uniqueness. Mathematical Methods in the Applied Sciences, 2006, 29, 1393-1410.	2.3	26
81	Error Estimates for Space-Time Discretizations of a Rate-Independent Variational Inequality. SIAM Journal on Numerical Analysis, 2010, 48, 1625-1646.	2.3	25
82	Variational Convergence of Gradient Flows and Rate-Independent Evolutions in Metric Spaces. Milan Journal of Mathematics, 2012, 80, 381-410.	1.1	25
83	A discrete variational principle for rate-independent evolution. Advances in Calculus of Variations, 2008, 1, .	1.2	24
84	Dispersive evolution of pulses in oscillator chains with general interaction potentials. Discrete and Continuous Dynamical Systems - Series B, 2006, 6, 493-523.	0.9	24
85	Reduction of PDEs on domains with several unbounded directions: A first step towards modulation equations. Zeitschrift Fur Angewandte Mathematik Und Physik, 1992, 43, 449-470.	1.4	23
86	On Existence and Approximation for a 3D Model of Thermally Induced Phase Transformations in Shape-Memory Alloys. SIAM Journal on Mathematical Analysis, 2009, 41, 1388-1414.	1.9	23
87	Comparison of Inertial Manifolds and Application to Modulated Systems. Mathematische Nachrichten, 2000, 214, 53-69.	0.8	22
88	Multi-pulse evolution and space-time chaos in dissipative systems. Memoirs of the American Mathematical Society, 2009, 198, 0-0.	0.9	22
89	Bifurcation of Homoclinic Orbits to a Saddle-Focus in Reversible Systems with SO(2)-Symmetry. Journal of Differential Equations, 1999, 159, 370-402.	2.2	20
90	Infinite-dimensional trajectory attractors of elliptic boundary-value problems in cylindrical domains. Russian Mathematical Surveys, 2002, 57, 753-784.	0.6	20

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91	AN EVOLUTIONARY ELASTOPLASTIC PLATE MODEL DERIVED VIA Γ-CONVERGENCE. Mathematical Models and Methods in Applied Sciences, 2011, 21, 1961-1986.	3.3	20
92	Thermoviscoelasticity in Kelvin–Voigt Rheology at Large Strains. Archive for Rational Mechanics and Analysis, 2020, 238, 1-45.	2.4	20
93	Two-scale homogenization of nonlinear reaction-diffusion systems with slow diffusion. Networks and Heterogeneous Media, 2014, 9, 353-382.	1.1	20
94	On Saint-Venant's problem for an elastic strip. Proceedings of the Royal Society of Edinburgh Section A: Mathematics, 1988, 110, 161-181.	1.2	19
95	Mathematical analysis of sideband instabilities with application to rayleigh-bénard convection. Journal of Nonlinear Science, 1997, 7, 57-99.	2.1	19
96	Diffusive Mixing of Stable States in the Ginzburg-Landau Equation. Communications in Mathematical Physics, 1998, 199, 71-97.	2.2	19
97	On the justification of plate theories in linear elasticity theory using exponential decay estimates. Journal of Elasticity, 1995, 38, 165-208.	1.9	18
98	A model for the evolution of laminates in finiteâ€strain elastoplasticity. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2012, 92, 888-909.	1.6	18
99	Interaction of modulated pulses in the nonlinear SchrĶdinger equation with periodic potential. Journal of Differential Equations, 2008, 245, 939-963.	2.2	17
100	Emergence of rate-independent dissipation from viscous systems with wiggly energies. Continuum Mechanics and Thermodynamics, 2012, 24, 591-606.	2.2	17
101	HOMOGENIZATION OF ELASTIC WAVES IN FLUID-SATURATED POROUS MEDIA USING THE BIOT MODEL. Mathematical Models and Methods in Applied Sciences, 2013, 23, 873-916.	3.3	17
102	Global Existence Results for Viscoplasticity at Finite Strain. Archive for Rational Mechanics and Analysis, 2018, 227, 423-475.	2.4	17
103	An Approach to Nonlinear Viscoelasticity via Metric Gradient Flows. SIAM Journal on Mathematical Analysis, 2014, 46, 1317-1347.	1.9	16
104	Modeling of Chemical Reaction Systems with Detailed Balance Using Gradient Structures. Journal of Statistical Physics, 2020, 181, 2257-2303.	1.2	16
105	Dissipation distances in multiplicative elastoplasticity. Lecture Notes in Applied and Computational Mechanics, 2003, , 87-100.	2.2	16
106	Flow properties for Young-measure solutions of semilinear hyperbolic problems. Proceedings of the Royal Society of Edinburgh Section A: Mathematics, 1999, 129, 85-123.	1.2	15
107	Convergence Results for a Coarsening Model Using Global Linearization. Journal of Nonlinear Science, 2003, 13, 311-346.	2.1	15
108	Dynamical Properties of Spatially Non-Decaying 2D Navier?Stokes Flows with Kolmogorov Forcing in an Infinite Strip. Journal of Mathematical Fluid Mechanics, 2005, 7, S51-S67.	1.0	15

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109	Bifurcations of Poiseuille flow between parallel plates: Three-dimensional solutions with large spanwise wavelength. Archive for Rational Mechanics and Analysis, 1995, 129, 101-127.	2.4	14
110	Multi-pulse solutions to the Navier-Stokes problem between parallel plates. Zeitschrift Fur Angewandte Mathematik Und Physik, 2001, 52, 79-100.	1.4	14
111	Dispersive stability of infinite-dimensional Hamiltonian systems on lattices. Applicable Analysis, 2010, 89, 1493-1512.	1.3	14
112	Spectrum and amplitude equations for scalar delay-differential equations with large delay. Discrete and Continuous Dynamical Systems, 2015, 35, 537-553.	0.9	14
113	Coexistence of Hamiltonian-Like and Dissipative Dynamics in Rings of Coupled Phase Oscillators with Skew-Symmetric Coupling. SIAM Journal on Applied Dynamical Systems, 2018, 17, 2076-2105.	1.6	14
114	Coarse-graining via EDP-convergence for linear fast-slow reaction systems. Mathematical Models and Methods in Applied Sciences, 2020, 30, 1765-1807.	3.3	14
115	Exploring families of energy-dissipation landscapes via tilting: three types of EDP convergence. Continuum Mechanics and Thermodynamics, 2021, 33, 611-637.	2.2	14
116	A metric approach to a class of doubly nonlinear evolution equations and applications. Annali Della Scuola Normale Superiore Di Pisa Classe Di Scienze, 2009, , 97-169.	0.2	14
117	Complete-damage evolution based on energies and stresses. Discrete and Continuous Dynamical Systems - Series S, 2011, 4, 423-439.	1.1	14
118	Decay to Equilibrium for Energy-Reaction-Diffusion Systems. SIAM Journal on Mathematical Analysis, 2018, 50, 1037-1075.	1.9	13
119	A gradient system with a wiggly energy and relaxed EDP-convergence. ESAIM - Control, Optimisation and Calculus of Variations, 2019, 25, 68.	1.3	13
120	Influence of Hardening and Inhomogeneity on Internal Loops in Pseudoelasticity. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2000, 80, 291-306.	1.6	11
121	Geometric properties of cones with applications on the Hellinger–Kantorovich space, and a new distance on the space of probability measures. Journal of Functional Analysis, 2019, 276, 3529-3576.	1.4	11
122	Uniqueness of the Surface-Wave Speed: A Proof That Is Independent of the Stroh Formalism. Mathematics and Mechanics of Solids, 2004, 9, 5-15.	2.4	11
123	Weak-convergence methods for Hamiltonian multiscale problems. Discrete and Continuous Dynamical Systems, 2008, 20, 53-79.	0.9	11
124	On microscopic origins of generalized gradient structures. Discrete and Continuous Dynamical Systems - Series S, 2017, 10, 1-35.	1.1	11
125	Continuum Descriptions for the Dynamics in Discrete Lattices: Derivation and Justification. , 2006, , 435-466.		10
126	Infinite-Dimensional Hyperbolic Sets and Spatio-Temporal Chaos in Reaction Diffusion Systems in \$\${mathbb{R}^{n}}\$\$. Journal of Dynamics and Differential Equations, 2007, 19, 333-389.	1.9	10

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127	Convergence of solutions of kinetic variational inequalities in the rate-independent quasi-static limit. Journal of Mathematical Analysis and Applications, 2008, 348, 1012-1020.	1.0	10
128	Reverse Approximation of Energetic Solutions to Rate-Independent Processes. Nonlinear Differential Equations and Applications, 2009, 16, 17-40.	0.8	10
129	Deriving amplitude equations via evolutionary \$Gamma\$-convergence. Discrete and Continuous Dynamical Systems, 2015, 35, 2679-2700.	0.9	10
130	On thermodynamically consistent models and gradient structures for thermoplasticity. GAMM Mitteilungen, 2011, 34, 51-58.	5.5	9
131	Generalized Prandtl–Ishlinskii operators arising from homogenization and dimension reduction. Physica B: Condensed Matter, 2012, 407, 1330-1335.	2.7	9
132	Global-in-time existence of weak solutions to Kolmogorov's two-equation model of turbulence. Comptes Rendus Mathematique, 2015, 353, 321-326.	0.3	9
133	Global existence for a nonlocal and nonlinear Fokker–Planck equation. Zeitschrift Fur Angewandte Mathematik Und Physik, 2015, 66, 293-315.	1.4	9
134	Stability and Diffusive Dynamics on Extended Domains. , 2001, , 563-583.		9
135	A model for temperature-induced phase transformations in finite-strain elasticity. IMA Journal of Applied Mathematics, 2007, 72, 644-658.	1.6	8
136	Convergence to Equilibrium in Energy-Reaction–Diffusion Systems Using Vector-Valued Functional Inequalities. Journal of Nonlinear Science, 2018, 28, 765-806.	2.1	8
137	Instability of Spatially — Periodic States for a Family of Semilinear PDE's on an Infinite Strip. Mathematische Nachrichten, 1996, 179, 5-25.	0.8	7
138	Vortex pinning in super-conductivity as a rate-independent process. European Journal of Applied Mathematics, 2005, 16, 799-808.	2.9	7
139	Calculation of ultrashort pulse propagation based on rational approximations for medium dispersion. Optical and Quantum Electronics, 2012, 44, 241-246.	3.3	7
140	Balanced-Viscosity solutions for multi-rate systems. Journal of Physics: Conference Series, 2016, 727, 012010.	0.4	7
141	EDP-convergence for nonlinear fast–slow reaction systems with detailed balance*. Nonlinearity, 2021, 34, 5762-5798.	1.4	7
142	Dissipative Quantum Mechanics Using GENERIC. Springer Proceedings in Mathematics and Statistics, 2013, , 555-585.	0.2	7
143	Lagrangian and Hamiltonian two-scale reduction. Journal of Mathematical Physics, 2008, 49, .	1.1	6
144	Deriving Effective Models for Multiscale Systems via Evolutionary \$\$varGamma \$\$ Γ -Convergence. Understanding Complex Systems, 2016, , 235-251.	0.6	6

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145	On the vanishing-viscosity limit in parabolic systems with rate-independent dissipation terms. Annali Della Scuola Normale Superiore Di Pisa Classe Di Scienze, 2014, , 67-135.	0.2	6
146	Global existence and uniqueness for an optical fibre laser model. Nonlinearity, 1998, 11, 1489-1504.	1.4	5
147	Modeling and Analytical Study for Ferroelectric Materials. Mechanics of Advanced Materials and Structures, 2006, 13, 457-462.	2.6	5
148	Variational Approaches and Methods for Dissipative Material Models with Multiple Scales. Lecture Notes in Applied and Computational Mechanics, 2015, , 125-155.	2.2	5
149	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
150	Existence results for a contact problem with varying friction coefficient and nonlinear forces. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2007, 87, 616-631.	1.6	4
151	High-frequency averaging in semi-classical Hartree-type equations. Asymptotic Analysis, 2010, 70, 87-100.	0.5	4
152	An existence result and evolutionary \$\$varGamma \$\$ Γ -convergence for perturbed gradient systems. Journal of Evolution Equations, 2019, 19, 479-522.	1.1	4
153	Analytical and Numerical Methods for Finite-Strain Elastoplasticity. , 2006, , 491-529.		4
154	Leray–Hopf solutions to a viscoelastoplastic fluid model with nonsmooth stress–strain relation. Nonlinear Analysis: Real World Applications, 2022, 65, 103491.	1.7	4
155	Global Existence Analysis of Energy-Reaction-Diffusion Systems. SIAM Journal on Mathematical Analysis, 2022, 54, 220-267.	1.9	4
156	On the existence of globalâ€inâ€time weak solutions and scaling laws for Kolmogorov's twoâ€equationÂmodel for turbulence. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2022, 102, .	1.6	4
157	Existence and approximation for a 3D model of thermally-induced phase transformations in shape-memory alloys. Proceedings in Applied Mathematics and Mechanics, 2008, 8, 10395-10396.	0.2	3
158	Uniform Exponential Decay for Reaction-Diffusion Systems with Complex-Balanced Mass-Action Kinetics. Springer Proceedings in Mathematics and Statistics, 2017, , 149-171.	0.2	3
159	Averaging of time-periodic dissipation potentials in rate-independent processes. Discrete and Continuous Dynamical Systems - Series S, 2017, 10, 1303-1327.	1.1	3
160	Existence, numerical convergence and evolutionary relaxation for a rate-independent phase-transformation model. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2016, 374, 20150171.	3.4	2
161	On the DarwinHowieWhelan Equations for the Scattering of Fast Electrons Described by the SchrĶdinger Equation. SIAM Journal on Applied Mathematics, 2021, 81, 1552-1578.	1.8	2
162	A rigorous derivation and energetics of a wave equation with fractional damping. Journal of Evolution Equations, 2021, 21, 3079-3102.	1.1	2

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163	Nonlocal modulation equations for viscous-fluid flows in layers and spatially localized perturbations. Doklady Physics, 2001, 46, 869-872.	0.7	1
164	Macroscopic pulse evolution for a nonlinear oscillator chain. Proceedings in Applied Mathematics and Mechanics, 2004, 4, 540-541.	0.2	1
165	Uniform Asymptotic Expansions for the Fundamental Solution of Infinite Harmonic Chains. Zeitschrift Fur Analysis Und Ihre Anwendung, 2017, 36, 437-475.	0.6	1
166	Numerical Approximation Techniques for Rate-Independent Inelasticity. IUTAM Symposium on Cellular, Molecular and Tissue Mechanics, 2008, , 53-63.	0.2	1
167	Rate-independent systems in Banach spaces. Applied Mathematical Sciences (Switzerland), 2015, , 117-234.	0.8	1
168	Three Examples Concerning the Interaction of Dry Friction and Oscillations. Springer INdAM Series, 2018, , 159-177.	0.5	1
169	Existence Theory for Finite-Strain Crystal Plasticity with Gradient Regularization. IUTAM Symposium on Cellular, Molecular and Tissue Mechanics, 2010, , 171-183.	0.2	1
170	Energetic rate-independent systems. Applied Mathematical Sciences (Switzerland), 2015, , 45-115.	0.8	1
171	Multi-dimensional Modeling and Simulation of Semiconductor Nanophotonic Devices. Springer Series in Solid-state Sciences, 2020, , 241-283.	0.3	1
172	Traveling Fronts in a Reaction–Diffusion Equation with a Memory Term. Journal of Dynamics and Differential Equations, 2024, 36, 487-513.	1.9	1
173	Analysis and Numerics for Rate-Independent Processes. Oberwolfach Reports, 2007, 4, 591-666.	0.0	Ο
174	On rate independent models for crack propagation. Proceedings in Applied Mathematics and Mechanics, 2008, 8, 10213-10214.	0.2	0
175	On the Energy Release Rate in Finite–Strain Elasticity. Mechanics of Advanced Materials and Structures, 2008, 15, 421-427.	2.6	Ο
176	A Model for the Evolution of Laminates. Proceedings in Applied Mathematics and Mechanics, 2009, 9, 43-46.	0.2	0
177	Microstructures in Solids: From Quantum Models to Continua. Oberwolfach Reports, 2010, 7, 733-798.	0.0	Ο
178	Neue Bücher aus Oberwolfach. Mitteilungen Der Deutschen Mathematiker-Vereinigung, 2012, 20, .	0.0	0
179	Variational Methods for Evolution. Oberwolfach Reports, 2015, 11, 3177-3254.	0.0	0
180	In Memoriam Klaus KirchgÃ s sner. Journal of Dynamics and Differential Equations, 2015, 27, 335-342.	1.9	0

#	Article	IF	CITATIONS
181	Variational Methods for Evolution. Oberwolfach Reports, 2017, 14, 3185-3261.	0.0	Ο
182	Local control of globally competing patterns in coupled Swift–Hohenberg equations. Chaos, 2018, 28, 043121.	2.5	0
183	Linearized elasticity as Mosco limit of finite elasticity in the presence of cracks. Advances in Calculus of Variations, 2020, 13, 33-52.	1.2	Ο
184	Relating a Rate-Independent System and a Gradient System for the Case of One-Homogeneous Potentials. Journal of Dynamics and Differential Equations, 0, , 1.	1.9	0
185	Preface: Rate-independent evolutions. Discrete and Continuous Dynamical Systems - Series S, 2013, 6, i-ii.	1.1	Ο
186	Beyond rate-independence. Applied Mathematical Sciences (Switzerland), 2015, , 459-577.	0.8	0
187	Applications in continuum mechanics and physics of solids. Applied Mathematical Sciences (Switzerland), 2015, , 235-458.	0.8	0
188	A general view of rate-independent systems. Applied Mathematical Sciences (Switzerland), 2015, , 1-43.	0.8	0