

Reinhard Racke

List of Publications by Year in descending order

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78
papers

3,142
citations

201674

27
h-index

161849

54
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79
all docs

79
docs citations

79
times ranked

625
citing authors

#	ARTICLE	IF	CITATIONS
1	Energy decay for Timoshenko systems of memory type. <i>Journal of Differential Equations</i> , 2003, 194, 82-115.	2.2	238
2	Mildly dissipative nonlinear Timoshenko systems – global existence and exponential stability. <i>Journal of Mathematical Analysis and Applications</i> , 2002, 276, 248-278.	1.0	210
3	A note on stability in three-phase-lag heat conduction. <i>International Journal of Heat and Mass Transfer</i> , 2008, 51, 24-29.	4.8	201
4	On the Stability of Damped Timoshenko Systems: Cattaneo Versus Fourier Law. <i>Archive for Rational Mechanics and Analysis</i> , 2009, 194, 221-251.	2.4	183
5	A note on stability in dual-phase-lag heat conduction. <i>International Journal of Heat and Mass Transfer</i> , 2006, 49, 1209-1213.	4.8	176
6	Global stability for damped Timoshenko systems. <i>Discrete and Continuous Dynamical Systems</i> , 2003, 9, 1625-1639.	0.9	152
7	Thermoelasticity with second sound – exponential stability in linear and non-linear 1-d. <i>Mathematical Methods in the Applied Sciences</i> , 2002, 25, 409-441.	2.3	127
8	Ill-posed problems in thermomechanics. <i>Applied Mathematics Letters</i> , 2009, 22, 1374-1379.	2.7	110
9	Lectures on Nonlinear Evolution Equations. <i>Aspects of Mathematics E</i> , 1992, , .	0.1	107
10	Global stability of large solutions to the 3D Navier-Stokes equations. <i>Communications in Mathematical Physics</i> , 1994, 159, 329-341.	2.2	98
11	Qualitative Aspects in Dual-Phase-Lag Thermoelasticity. <i>SIAM Journal on Applied Mathematics</i> , 2006, 66, 977-1001.	1.8	96
12	Smoothing Properties, Decay, and Global Existence of Solutions to Nonlinear Coupled Systems of Thermoelastic Type. <i>SIAM Journal on Mathematical Analysis</i> , 1995, 26, 1547-1563.	1.9	95
13	Timoshenko systems with indefinite damping. <i>Journal of Mathematical Analysis and Applications</i> , 2008, 341, 1068-1083.	1.0	92
14	Qualitative aspects in dual-phase-lag heat conduction. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2007, 463, 659-674.	2.1	77
15	Maximal regularity and asymptotic behavior of solutions for the Cahn–Hilliard equation with dynamic boundary conditions. <i>Annali Di Matematica Pura Ed Applicata</i> , 2006, 185, 627-648.	1.0	65
16	Global smooth solutions and asymptotic stability in one-dimensional nonlinear thermoelasticity. <i>Archive for Rational Mechanics and Analysis</i> , 1991, 116, 1-34.	2.4	60
17	Lectures on Nonlinear Evolution Equations. , 2015, , .		59
18	Asymptotic behavior of solutions in linear 2- or 3-D thermoelasticity with second sound. <i>Quarterly of Applied Mathematics</i> , 2003, 61, 315-328.	0.7	57

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19	Large Solutions and Smoothing Properties for Nonlinear Thermoelastic Systems. Journal of Differential Equations, 1996, 127, 454-483.	2.2	52
20	Global Existence and Asymptotic Behavior in Nonlinear Thermoviscoelasticity. Journal of Differential Equations, 1997, 134, 46-67.	2.2	45
21	Global solvability and exponential stability in one-dimensional nonlinear thermoelasticity. Quarterly of Applied Mathematics, 1993, 51, 751-763.	0.7	42
22	Instability of coupled systems with delay. Communications on Pure and Applied Analysis, 2012, 11, 1753-1773.	0.8	38
23	Asymptotic stability and global existence in thermoelasticity with symmetry. Quarterly of Applied Mathematics, 1998, 56, 259-275.	0.7	37
24	Hyperbolic Navier-Stokes equations I: Local well-posedness. Evolution Equations and Control Theory, 2012, 1, 195-215.	1.3	34
25	On the Cauchy problem in nonlinear 3-d-thermoelasticity. Mathematische Zeitschrift, 1990, 203, 649-682.	0.9	31
26	Blow-up in non-linear three-dimensional thermoelasticity. Mathematical Methods in the Applied Sciences, 1990, 12, 267-273.	2.3	31
27	Global existence of small solutions to the initial value problem for nonlinear thermoelasticity. Journal of Differential Equations, 1990, 87, 70-83.	2.2	28
28	Multidimensional Contact Problems in Thermoelasticity. SIAM Journal on Applied Mathematics, 1998, 58, 1307-1337.	1.8	28
29	Decay rates and global existence for semilinear dissipative Timoshenko systems. Quarterly of Applied Mathematics, 2013, 71, 229-266.	0.7	26
30	On some quasilinear hyperbolic-parabolic initial boundary value problems. Mathematical Methods in the Applied Sciences, 1990, 12, 315-339.	2.3	24
31	Hyperbolic Navier-Stokes equations II: Global existence of small solutions. Evolution Equations and Control Theory, 2012, 1, 217-234.	1.3	24
32	Phase-lag heat conduction: decay rates for limit problems and well-posedness. Journal of Evolution Equations, 2014, 14, 863-884.	1.1	23
33	Non-homogeneous non-linear damped wave equations in unbounded domains. Mathematical Methods in the Applied Sciences, 1990, 13, 481-491.	2.3	22
34	NONLINEAR WELL-POSEDNESS AND RATES OF DECAY IN THERMOELASTICITY WITH SECOND SOUND. Journal of Hyperbolic Differential Equations, 2008, 05, 25-43.	0.5	22
35	On a Class of Nonlinear Viscoelastic Kirchhoff Plates: Well-Posedness and General Decay Rates. Applied Mathematics and Optimization, 2016, 73, 165-194.	1.6	22
36	Global existence and decay property of the Timoshenko system in thermoelasticity with second sound. Nonlinear Analysis: Theory, Methods & Applications, 2012, 75, 4957-4973.	1.1	21

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37	Nonlinear thermoelastic plate equations – Global existence and decay rates for the Cauchy problem. <i>Journal of Differential Equations</i> , 2017, 263, 8138-8177.	2.2	21
38	Transmission Problems in (Thermo)Viscoelasticity with Kelvin–Voigt Damping: Nonexponential, Strong, and Polynomial Stability. <i>SIAM Journal on Mathematical Analysis</i> , 2017, 49, 3741-3765.	1.9	20
39	Initial boundary value problems in one-dimensional non-linear thermoelasticity. <i>Mathematical Methods in the Applied Sciences</i> , 1988, 10, 517-529.	2.3	19
40	Stability for a Transmission Problem in Thermoelasticity with Second Sound. <i>Journal of Thermal Stresses</i> , 2008, 31, 1170-1189.	2.0	19
41	Compressible Navier–Stokes Equations with Revised Maxwell’s Law. <i>Journal of Mathematical Fluid Mechanics</i> , 2017, 19, 77-90.	1.0	18
42	Sharp decay rates in parabolic and hyperbolic thermoelasticity. <i>IMA Journal of Applied Mathematics</i> , 2006, 71, 459-478.	1.6	17
43	Global well-posedness of the Cauchy problem for the 3D Jordan–Moore–Gibson–Thompson equation. <i>Communications in Contemporary Mathematics</i> , 2021, 23, .	1.2	17
44	Mathematical Analysis of Thermoplasticity with Linear Kinematic Hardening. <i>Journal of Applied Analysis</i> , 2006, 12, .	0.5	16
45	Compressible Navier–Stokes Equations with hyperbolic heat conduction. <i>Journal of Hyperbolic Differential Equations</i> , 2016, 13, 233-247.	0.5	14
46	Mathematical modeling, forecasting, and optimal control of typhoid fever transmission dynamics. <i>Chaos, Solitons and Fractals</i> , 2021, 149, 111074.	5.1	14
47	Generalized fourier transforms and global small solutions to kirchhoff equations. <i>Applicable Analysis</i> , 1995, 58, 85-100.	1.3	13
48	Nonlinear Wave Equations in Infinite Waveguides. <i>Communications in Partial Differential Equations</i> , 2003, 28, 1265-1301.	2.2	13
49	Thermoelasticity. <i>Handbook of Differential Equations: Evolutionary Equations</i> , 2009, , 315-420.	0.9	12
50	Strong and Mild Extrapolated L^2 -Solutions to the Heat Equation with Constant Delay. <i>SIAM Journal on Mathematical Analysis</i> , 2015, 47, 427-454.	1.9	12
51	Exponential stability for wave equations with non-dissipative damping. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 2008, 68, 2531-2551.	1.1	11
52	Global attractors for nonlinear beam equations. <i>Proceedings of the Royal Society of Edinburgh Section A: Mathematics</i> , 2012, 142, 1087-1107.	1.2	10
53	Formation of singularities in one-dimensional thermoelasticity with second sound. <i>Quarterly of Applied Mathematics</i> , 2014, 72, 311-321.	0.7	10
54	L_p - L_q -estimates for solutions to the equations of linear thermoelasticity in exterior domains. <i>Asymptotic Analysis</i> , 1990, 3, 105-132.	0.5	9

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55	Evolution Equations on Non-Flat Waveguides. Archive for Rational Mechanics and Analysis, 2012, 206, 81-110.	2.4	9
56	On (non-)exponential decay in generalized thermoelasticity with two temperatures. Applied Mathematics Letters, 2017, 70, 18-25.	2.7	9
57	Asymptotic Behavior of Discontinuous Solutions to Thermoelastic Systems with Second Sound. Zeitschrift Fur Analysis Und Ihre Anwendung, 2005, 24, 117-135.	0.6	8
58	Stability of abstract thermoelastic systems with inertial terms. Journal of Differential Equations, 2019, 267, 7085-7134.	2.2	8
59	Effects of history and heat models on the stability of thermoelastic Timoshenko systems. Journal of Differential Equations, 2021, 275, 167-203.	2.2	8
60	Asymptotic behavior of discontinuous solutions in 3-D thermoelasticity with second sound. Quarterly of Applied Mathematics, 2008, 66, 707-724.	0.7	7
61	On Exponential Stability for Thermoelastic Plates: Comparison and Singular Limits. Applied Mathematics and Optimization, 2021, 84, 1045-1081.	1.6	6
62	Formation of singularities for one-dimensional relaxed compressible Navier-Stokes equations. Journal of Differential Equations, 2022, 327, 145-165.	2.2	6
63	DECAY RATES FOR SEMILINEAR VISCOELASTIC SYSTEMS IN WEIGHTED SPACES. Journal of Hyperbolic Differential Equations, 2012, 09, 67-103.	0.5	5
64	Global existence and decay of solutions of the Cauchy problem in thermoelasticity with second sound. Applicable Analysis, 2014, 93, 911-935.	1.3	5
65	Optimal decay rates and global existence for a semilinear Timoshenko system with two damping effects. Mathematical Methods in the Applied Sciences, 2017, 40, 210-222.	2.3	5
66	The Cauchy Problem for Thermoelastic Plates with Two Temperatures. Zeitschrift Fur Analysis Und Ihre Anwendung, 2020, 39, 103-129.	0.6	5
67	Global existence of solutions to a fully nonlinear fourth-order parabolic equation in exterior domains. Nonlinear Analysis: Theory, Methods & Applications, 1991, 17, 1027-1038.	1.1	4
68	Elastic and electro-magnetic waves in infinite waveguides. Journal of Differential Equations, 2008, 244, 945-971.	2.2	4
69	Singular limits in the Cauchy problem for the damped extensible beam equation. Journal of Differential Equations, 2015, 259, 1297-1322.	2.2	4
70	Hyperbolic compressible Navier-Stokes equations. Journal of Differential Equations, 2020, 269, 3196-3220.	2.2	4
71	Stability for thermoelastic plates with two temperatures. Discrete and Continuous Dynamical Systems, 2017, 37, 6333-6352.	0.9	4
72	Global solutions to semilinear parabolic systems for small data. Journal of Differential Equations, 1988, 76, 312-338.	2.2	3

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73	Global well-posedness and polynomial decay for a nonlinear Timoshenko-Cattaneo system under minimal Sobolev regularity. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 2018, 173, 164-179.	1.1	3
74	Eigenfunction expansions in thermoelasticity. <i>Journal of Mathematical Analysis and Applications</i> , 1986, 120, 596-609.	1.0	2
75	Weakly hyperbolic equations in domains with boundaries. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 1998, 33, 455-472.	1.1	1
76	Decay estimates for the Cauchy problem for the damped extensible beam equation. <i>Applicable Analysis</i> , 2016, 95, 1118-1136.	1.3	1
77	Low frequency expansion in thermoelasticity with second sound in three dimensions. <i>Journal of the Mathematical Society of Japan</i> , 2010, 62, .	0.4	0
78	Compressible Euler equations with second sound: Asymptotics of discontinuous solutions. <i>Journal of Mathematical Analysis and Applications</i> , 2013, 401, 9-28.	1.0	0