Reinhard Racke

List of Publications by Year
in descending order

78 papers	3,142 citations	201674 27 h-index	161849 54 g-index
79 all docs	79 docs citations	79 times ranked	625 citing authors

#	Article	IF	Citations
1	Formation of singularities for one-dimensional relaxed compressible Navier-Stokes equations. Journal of Differential Equations, 2022, 327, 145-165.	2.2	6
2	Global well-posedness of the Cauchy problem for the 3D Jordanâ€“Mooreâ€“Gibsonâ€“Thompson equation. Communications in Contemporary Mathematics, 2021, 23, .	1.2	17
3	On Exponential Stability for Thermoelastic Plates: Comparison and Singular Limits. Applied Mathematics and Optimization, 2021, 84, 1045-1081.	1.6	6
4	Effects of history and heat models on the stability of thermoelastic Timoshenko systems. Journal of Differential Equations, 2021, 275, 167-203.	2.2	8
5	Mathematical modeling, forecasting, and optimal control of typhoid fever transmission dynamics. Chaos, Solitons and Fractals, 2021, 149, 111074.	5.1	14
6	The Cauchy Problem for Thermoelastic Plates with Two Temperatures. Zeitschrift Fur Analysis Und Ihre Anwendung, 2020, 39, 103-129.	0.6	5
7	Hyperbolic compressible Navier-Stokes equations. Journal of Differential Equations, 2020, 269, 3196-3220.	2.2	4
8	Stability of abstract thermoelastic systems with inertial terms. Journal of Differential Equations, 2019, 267, 7085-7134.	2.2	8
9	Global well-posedness and polynomial decay for a nonlinear Timoshenkoâ€“Cattaneo system under minimal Sobolev regularity. Nonlinear Analysis: Theory, Methods & Applications, 2018, 173, 164-179.	1.1	3
10	Compressible Navierâ€“Stokes Equations with Revised Maxwellâ€™s Law. Journal of Mathematical Fluid Mechanics, 2017, 19, 77-90.	1.0	18
11	On (non-)exponential decay in generalized thermoelasticity with two temperatures. Applied Mathematics Letters, 2017, 70, 18-25.	2.7	9
12	Nonlinear thermoelastic plate equations â€“ Global existence and decay rates for the Cauchy problem. Journal of Differential Equations, 2017, 263, 8138-8177.	2.2	21
13	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
14	Transmission Problems in (Thermo)Viscoelasticity with Kelvin--Voigt Damping: Nonexponential, Strong, and Polynomial Stability. SIAM Journal on Mathematical Analysis, 2017, 49, 3741-3765.	1.9	20
15	Stability for thermoelastic plates with two temperatures. Discrete and Continuous Dynamical Systems, 2017, 37, 6333-6352.	0.9	4
16	Compressible Navierâ€“Stokes Equations with hyperbolic heat conduction. Journal of Hyperbolic Differential Equations, 2016, 13, 233-247.	0.5	14
17	Decay estimates for the Cauchy problem for the damped extensible beam equation. Applicable Analysis, 2016, 95, 1118-1136.	1.3	1
18	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

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19	Singular limits in the Cauchy problem for the damped extensible beam equation. Journal of Differential Equations, 2015, 259, 1297-1322.	2.2	4
20	Strong and Mild Extrapolated L^{2}-Solutions to the Heat Equation with Constant Delay. SIAM Journal on Mathematical Analysis, 2015, 47, 427-454.	1.9	12
21	Lectures on Nonlinear Evolution Equations. , 2015, , .		59
22	Phase-lag heat conduction: decay rates for limit problems and well-posedness. Journal of Evolution Equations, 2014, 14, 863-884.	1.1	23
23	Formation of singularities in one-dimensional thermoelasticity with second sound. Quarterly of Applied Mathematics, 2014, 72, 311-321.	0.7	10
24	Global existence and decay of solutions of the Cauchy problem in thermoelasticity with second sound. Applicable Analysis, 2014, 93, 911-935.	1.3	5
25	Decay rates and global existence for semilinear dissipative Timoshenko systems. Quarterly of Applied Mathematics, 2013, 71, 229-266.	0.7	26
26	Compressible Euler equations with second sound: Asymptotics of discontinuous solutions. Journal of Mathematical Analysis and Applications, 2013, 401, 9-28.	1.0	0
27	DECAY RATES FOR SEMILINEAR VISCOELASTIC SYSTEMS IN WEIGHTED SPACES. Journal of Hyperbolic Differential Equations, 2012, 09, 67-103.	0.5	5
28	Global attractors for nonlinear beam equations. Proceedings of the Royal Society of Edinburgh Section A: Mathematics, 2012, 142, 1087-1107.	1.2	10
29	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
30	Evolution Equations on Non-Flat Waveguides. Archive for Rational Mechanics and Analysis, 2012, 206, 81-110.	2.4	9
31	Instability of coupled systems with delay. Communications on Pure and Applied Analysis, 2012, 11, 1753-1773.	0.8	38
32	Hyperbolic Navier-Stokes equations I: Local well-posedness. Evolution Equations and Control Theory, 2012, 1, 195-215.	1.3	34
33	Hyperbolic Navier-Stokes equations II: Global existence of small solutions. Evolution Equations and Control Theory, 2012, 1, 217-234.	1.3	24
34	Low frequency expansion in thermoelasticity with second sound in three dimensions. Journal of the Mathematical Society of Japan, 2010, 62, .	0.4	0
35	On the Stability of Damped Timoshenko Systems: Cattaneo Versus Fourier Law. Archive for Rational Mechanics and Analysis, 2009, 194, 221-251.	2.4	183
36	Ill-posed problems in thermomechanics. Applied Mathematics Letters, 2009, 22, 1374-1379.	2.7	110

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37	Thermoelasticity. Handbook of Differential Equations: Evolutionary Equations, 2009, , 315-420.	0.9	12
38	Exponential stability for wave equations with non-dissipative damping. Nonlinear Analysis: Theory, Methods & Applications, 2008, 68, 2531-2551.	1.1	11
39	Elastic and electro-magnetic waves in infinite waveguides. Journal of Differential Equations, 2008, 244, 945-971.	2.2	4
40	Timoshenko systems with indefinite damping. Journal of Mathematical Analysis and Applications, 2008, 341, 1068-1083.	1.0	92
41	A note on stability in three-phase-lag heat conduction. International Journal of Heat and Mass Transfer, 2008, 51, 24-29.	4.8	201
42	NONLINEAR WELL-POSEDNESS AND RATES OF DECAY IN THERMOELASTICITY WITH SECOND SOUND. Journal of Hyperbolic Differential Equations, 2008, 05, 25-43.	0.5	22
43	Stability for a Transmission Problem in Thermoelasticity with Second Sound. Journal of Thermal Stresses, 2008, 31, 1170-1189.	2.0	19
44	Asymptotic behavior of discontinuous solutions in 3-D thermoelasticity with second sound. Quarterly of Applied Mathematics, 2008, 66, 707-724.	0.7	7
45	Qualitative aspects in dual-phase-lag heat conduction. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2007, 463, 659-674.	2.1	77
46	Qualitative Aspects in Dual-Phase-Lag Thermoelasticity. SIAM Journal on Applied Mathematics, 2006, 66, 977-1001.	1.8	96
47	A note on stability in dual-phase-lag heat conduction. International Journal of Heat and Mass Transfer, 2006, 49, 1209-1213.	4.8	176
48	Maximal regularity and asymptotic behavior of solutions for the Cahnâ€“Hilliard equation with dynamic boundary conditions. Annali Di Matematica Pura Ed Applicata, 2006, 185, 627-648.	1.0	65
49	Sharp decay rates in parabolic and hyperbolic thermoelasticity. IMA Journal of Applied Mathematics, 2006, 71, 459-478.	1.6	17
50	Mathematical Analysis of Thermoplasticity with Linear Kinematic Hardening. Journal of Applied Analysis, 2006, 12, .	0.5	16
51	Asymptotic Behavior of Discontinuous Solutions to Thermoelastic Systems with Second Sound. Zeitschrift Fur Analysis Und Ihre Anwendung, 2005, 24, 117-135.	0.6	8
52	Energy decay for Timoshenko systems of memory type. Journal of Differential Equations, 2003, 194, 82-115.	2.2	238
53	Nonlinear Wave Equations in Infinite Waveguides. Communications in Partial Differential Equations, 2003, 28, 1265-1301.	2.2	13
54	Asymptotic behavior of solutions in linear 2- or 3-D thermoelasticity with second sound. Quarterly of Applied Mathematics, 2003, 61, 315-328.	0.7	57

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55	Global stability for damped Timoshenko systems. Discrete and Continuous Dynamical Systems, 2003, 9, 1625-1639.	0.9	152
56	Thermoelasticity with second sound?exponential stability in linear and non-linear 1-d. Mathematical Methods in the Applied Sciences, 2002, 25, 409-441.	2.3	127
57	Mildly dissipative nonlinear Timoshenko systemsâ€”global existence and exponential stability. Journal of Mathematical Analysis and Applications, 2002, 276, 248-278.	1.0	210
58	Weakly hyperbolic equations in domains with boundaries. Nonlinear Analysis: Theory, Methods & Applications, 1998, 33, 455-472.	1.1	1
59	Multidimensional Contact Problems in Thermoelasticity. SIAM Journal on Applied Mathematics, 1998, 58, 1307-1337.	1.8	28
60	Asymptotic stability and global existence in thermoelasticity with symmetry. Quarterly of Applied Mathematics, 1998, 56, 259-275.	0.7	37
61	Global Existence and Asymptotic Behavior in Nonlinear Thermoviscoelasticity. Journal of Differential Equations, 1997, 134, 46-67.	2.2	45
62	Large Solutions and Smoothing Properties for Nonlinear Thermoelastic Systems. Journal of Differential Equations, 1996, 127, 454-483.	2.2	52
63	Generalized fourier transforms and global small solutions to kirchhoff equations. Applicable Analysis, 1995, 58, 85-100.	1.3	13
64	Smoothing Properties, Decay, and Global Existence of Solutions to Nonlinear Coupled Systems of Thermoelastic Type. SIAM Journal on Mathematical Analysis, 1995, 26, 1547-1563.	1.9	95
65	Global stability of large solutions to the 3D Navier-Stokes equations. Communications in Mathematical Physics, 1994, 159, 329-341.	2.2	98
66	Global solvability and exponential stability in one-dimensional nonlinear thermoelasticity. Quarterly of Applied Mathematics, 1993, 51, 751-763.	0.7	42
67	Lectures on Nonlinear Evolution Equations. Aspects of Mathematics E, 1992, , .	0.1	107
68	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
69	Global smooth solutions and asymptotic stability in one-dimensional nonlinear thermoelasticity. Archive for Rational Mechanics and Analysis, 1991, 116, 1-34.	2.4	60
70	On the Cauchy problem in nonlinear 3-d-thermoelasticity. Mathematische Zeitschrift, 1990, 203, 649-682.	0.9	31
71	Blow-up in non-linear three-dimensional thermoelasticity. Mathematical Methods in the Applied Sciences, 1990, 12, 267-273.	2.3	31
72	On some quasilinear hyperbolic-parabolic initial boundary value problems. Mathematical Methods in the Applied Sciences, 1990, 12, 315-339.	2.3	24

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73	Non-homogeneous non-linear damped wave equations in unbounded domains. Mathematical Methods in the Applied Sciences, 1990, 13, 481-491.	2.3	22
74	Global existence of small solutions to the initial value problem for nonlinear thermoelasticity. Journal of Differential Equations, 1990, 87, 70-83.	2.2	28
75	Lp-Lq-estimates for solutions to the equations of linear thermoelasticity in exterior domains. Asymptotic Analysis, 1990, 3, 105-132.	0.5	9
76	Initial boundary value problems in one-dimensional non-linear thermoelasticity. Mathematical Methods in the Applied Sciences, 1988, 10, 517-529.	2.3	19
77	Global solutions to semilinear parabolic systems for small data. Journal of Differential Equations, 1988, 76, 312-338.	2.2	3
78	Eigenfunction expansions in thermoelasticity. Journal of Mathematical Analysis and Applications, 1986, 120, 596-609.	1.0	2