Ryo Ikehata

List of Publications by Year
in descending order

50	1,078	471061 17	414034 32
papers	citations	h-index	g-index

50	50	50	137
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Global existence of solutions for semilinear damped wave equations in R with noncompactly supported initial data. Nonlinear Analysis: Theory, Methods & Applications, 2005, 61, 1189-1208.	0.6	96
2	Decay estimates of solutions for dissipative wave equations in RN with lower power nonlinearities. Journal of the Mathematical Society of Japan, 2004, 56, 365.	0.3	84
3	Wave equations with strong damping in Hilbert spaces. Journal of Differential Equations, 2013, 254, 3352-3368.	1.1	77
4	Asymptotic profiles for wave equations with strong damping. Journal of Differential Equations, 2014, 257, 2159-2177.	1.1	75
5	New decay estimates for linear damped wave equations and its application to nonlinear problem. Mathematical Methods in the Applied Sciences, 2004, 27, 865-889.	1.2	71
6	Critical exponents for semilinear dissipative wave equations in RN. Journal of Mathematical Analysis and Applications, 2002, 269, 87-97.	0.5	68
7	Sharp decay rates for wave equations with a fractional damping via new method in the Fourier space. Journal of Mathematical Analysis and Applications, 2013, 408, 247-255.	0.5	45
8	Diffusion phenomenon for second order linear evolution equations. Studia Mathematica, 2003, 158, 153-161.	0.4	42
9	Global asymptotics of solutions to the Cauchy problem for the damped wave equation with absorption. Journal of Differential Equations, 2006, 226, 1-29.	1.1	37
10	Critical Exponent for Semilinear Wave Equations with Space-Dependent Potential. Funkcialaj Ekvacioj, 2009, 52, 411-435.	0.2	35
11	Optimal decay rate of the energy for wave equations with critical potential. Journal of the Mathematical Society of Japan, 2013, 65, .	0.3	35
12	The Cauchy problem for the Moore-Gibson-Thompson equation in the dissipative case. Journal of Differential Equations, 2021, 292, 176-219.	1.1	34
13	Diffusion phenomenon for linear dissipative wave equations in an exterior domain. Journal of Differential Equations, 2002, 186, 633-651.	1.1	33
14	Decay estimates of solutions for the wave equations with strong damping terms in unbounded domains. Mathematical Methods in the Applied Sciences, 2001, 24, 659-670.	1.2	22
15	Asymptotic Profiles of Solutions for Structural Damped Wave Equations. Journal of Dynamics and Differential Equations, 2019, 31, 537-571.	1.0	22
16	Asymptotic behavior for abstract evolution differential equations of second order. Journal of Differential Equations, 2015, 259, 5017-5039.	1.1	21
17	Global existence of weak solutions for two-dimensional semilinear wave equations with strong damping in an exterior domain. Nonlinear Analysis: Theory, Methods & Applications, 2008, 68, 154-169.	0.6	20
18	Critical exponent for semilinear damped wave equations in the N-dimensional half space. Journal of Mathematical Analysis and Applications, 2003, 288, 803-818.	0.5	17

#	Article	IF	Citations
19	NEW DECAY RATES FOR A PROBLEM OF PLATE DYNAMICS WITH FRACTIONAL DAMPING. Journal of Hyperbolic Differential Equations, 2013, 10, 563-575.	0.3	17
20	Asymptotic profiles for a strongly damped plate equation with lower order perturbation. Communications on Pure and Applied Analysis, 2015, 14, 1759-1780.	0.4	17
21	Optimal decay rates and asymptotic profile for the plate equation with structural damping. Journal of Mathematical Analysis and Applications, 2016, 440, 529-560.	0.5	17
22	Two dimensional exterior mixed problem for semilinear damped wave equations. Journal of Mathematical Analysis and Applications, 2005, 301, 366-377.	0.5	15
23	Asymptotic profile of solutions for wave equations with frictional and viscoelastic damping terms. Asymptotic Analysis, 2016, 98, 59-77.	0.2	15
24	Critical exponent for nonlinear wave equations with frictional and viscoelastic damping terms. Nonlinear Analysis: Theory, Methods & Applications, 2017, 148, 228-253.	0.6	13
25	Improved decay rates for solutions to one-dimensional linear and semilinear dissipative wave equations in all space. Journal of Mathematical Analysis and Applications, 2003, 277, 555-570.	0.5	11
26	Global existence of solutions for semilinear damped wave equation in 2-D exterior domain. Journal of Differential Equations, 2004, 200, 53-68.	1.1	11
27	Local energy decay for linear wave equations with variable coefficients. Journal of Mathematical Analysis and Applications, 2005, 306, 330-348.	0.5	11
28	Asymptotic profile of solutions for some wave equations with very strong structural damping. Mathematical Methods in the Applied Sciences, 2018, 41, 5074-5090.	1.2	11
29	Local energy decay for linear wave equations with non-compactly supported initial data. Mathematical Methods in the Applied Sciences, 2004, 27, 1881-1892.	1.2	10
30	Decay of solutions for a semilinear system of elastic waves in an exterior domain with damping near infinity. Nonlinear Analysis: Theory, Methods & Applications, 2007, 67, 398-429.	0.6	9
31	Optimal decay rates for the system of elastic waves in R n with structural damping. Journal of Evolution Equations, 2014, 14, 197-210.	0.6	9
32	Energy decay rates of elastic waves in unbounded domain with potential type of damping. Journal of Mathematical Analysis and Applications, 2011, 380, 46-56.	0.5	7
33	Asymptotic profile of solutions for strongly damped Kleinâ€Gordon equations. Mathematical Methods in the Applied Sciences, 2019, 42, 2287-2301.	1.2	7
34	Thresholds for low regularity solutions to wave equations with structural damping. Journal of Mathematical Analysis and Applications, 2021, 494, 124669.	0.5	7
35	Asymptotic profiles for a wave equation with parameterâ€dependent logarithmic damping. Mathematical Methods in the Applied Sciences, 2021, 44, 14003-14024.	1.2	7
36	Asymptotic profile and optimal decay of solutions of some wave equations with logarithmic damping. Zeitschrift Fur Angewandte Mathematik Und Physik, 2020, 71, 1.	0.7	6

#	Article	IF	Citations
37	Critical exponent for semi-linear wave equations with double damping terms in exterior domains. Nonlinear Differential Equations and Applications, 2019, 26, 1.	0.4	5
38	A note on decay rates of the local energy for wave equations with Lipschitz wavespeeds. Journal of Mathematical Analysis and Applications, 2020, 483, 123636.	0.5	5
39	Some remarks on the asymptotic profiles of solutions for strongly damped wave equations on the 1-D half space. Journal of Mathematical Analysis and Applications, 2015, 421, 905-916.	0.5	4
40	Moment conditions and lower bounds in expanding solutions of wave equations with double damping terms. Asymptotic Analysis, 2019, 114, 19-36.	0.2	4
41	A dissipative logarithmic-type evolution equation: Asymptotic profile and optimal estimates. Journal of Mathematical Analysis and Applications, 2022, 506, 125587.	0.5	4
42	Asymptotic profiles for damped plate equations with rotational inertia terms. Journal of Hyperbolic Differential Equations, 2020, 17, 569-589.	0.3	4
43	Double diffusion structure of logarithmically damped wave equations with a small parameter. Journal of Differential Equations, 2022, 311, 188-228.	1.1	4
44	Global existence of solutions for 2-D semilinear wave equations with dissipation localized near infinity in an exterior domain. Mathematical Methods in the Applied Sciences, 2006, 29, 479-496.	1.2	3
45	A note on optimal L 2 -estimates of solutions to some strongly damped ï*f*-evolution equations. Asymptotic Analysis, 2020, 121, 59-74.	0.2	3
46	Local energy decay for some hyperbolic equations with initial data decaying slowly near infinity. Hokkaido Mathematical Journal, 2007, 36, .	0.2	3
47	Local energy decay for a class of hyperbolic equations with constant coefficients near infinity. Mathematische Nachrichten, 2010, 283, 636-647.	0.4	2
48	Fast energy decay for wave equations with a localized damping in the n-D half space. Asymptotic Analysis, 2017, 103, 77-94.	0.2	2
49	A dissipative logarithmic-Laplacian type of plate equation: Asymptotic profile and decay rates. Discrete and Continuous Dynamical Systems, 2022, 42, 2215.	0.5	1
50	Remarks on the Decay Rate of the Energy for Damped Modified Boussinesq-Beam Equations on the 1-D Half Line. Funkcialaj Ekvacioj, 2017, 60, 239-257.	0.2	0