

A H Alain Haraux

List of Publications by Year in descending order

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106
papers

2,163
citations

361045

20
h-index

243296

44
g-index

113
all docs

113
docs citations

113
times ranked

631
citing authors

#	ARTICLE	IF	CITATIONS
1	Small perturbations for a Duffing-like evolution equation involving non-commuting operators. <i>Nonlinear Differential Equations and Applications</i> , 2021, 28, 1.	0.4	1
2	Sharp ultimate velocity bounds for the general solution of some linear second order evolution equation with damping and bounded forcing. <i>Journal of Differential Equations</i> , 2021, 305, 72-102.	1.1	0
3	A sharp stability criterion for single well Duffing and Duffing-like equations. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 2020, 190, 111600.	0.6	2
4	Universal bounds for a class of second order evolution equations and applications. <i>Journal Des Mathematiques Pures Et Appliquees</i> , 2020, 142, 184-203.	0.8	0
5	Some Simple Problems for the Next Generations. , 2019, , 296-310.		1
6	The universal bound property for a class of second order ODEs. <i>Portugaliae Mathematica</i> , 2019, 76, 49-56.	0.4	1
7	On the ultimate energy bound of solutions to some forced second-order evolution equations with a general nonlinear damping operator. <i>Tunisian Journal of Mathematics</i> , 2019, 1, 59-72.	0.1	3
8	Quantization of energy and weakly turbulent profiles of solutions to some damped second-order evolution equations. <i>Advances in Nonlinear Analysis</i> , 2019, 8, 902-927.	1.3	8
9	Nonlinear Vibrations and the Wave Equation. <i>SpringerBriefs in Mathematics</i> , 2018, , .	0.2	8
10	A concrete realization of the slow-fast alternative for a semilinear heat equation with homogeneous Neumann boundary conditions. <i>Advances in Nonlinear Analysis</i> , 2018, 7, 375-384.	1.3	3
11	Existence of Forced Oscillations. <i>SpringerBriefs in Mathematics</i> , 2018, , 55-64.	0.2	0
12	Unbounded Linear Operators and Evolution Equations. <i>SpringerBriefs in Mathematics</i> , 2018, , 1-8.	0.2	0
13	An infinite dimensional Duffing-like evolution equation with linear dissipation and an asymptotically small source term. <i>Nonlinear Analysis: Real World Applications</i> , 2018, 43, 167-191.	0.9	6
14	The Conservative Case in One Spatial Dimension. <i>SpringerBriefs in Mathematics</i> , 2018, , 73-82.	0.2	0
15	The Initial-Value Problem For A Mildly Perturbed Wave Equation. <i>SpringerBriefs in Mathematics</i> , 2018, , 27-33.	0.2	0
16	The Conservative Case in Several Spatial Dimensions. <i>SpringerBriefs in Mathematics</i> , 2018, , 83-90.	0.2	0
17	Solutions on \mathbb{R}^+ and Boundedness of the Energy. <i>SpringerBriefs in Mathematics</i> , 2018, , 49-54.	0.2	0
18	The Initial-Value Problem in Presence of a Strong Dissipation. <i>SpringerBriefs in Mathematics</i> , 2018, , 35-48.	0.2	0

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19	The Wave Equation in a Bounded Domain. SpringerBriefs in Mathematics, 2018, , 23-26.	0.2	0
20	A Class of Abstract Wave Equations. SpringerBriefs in Mathematics, 2018, , 9-14.	0.2	0
21	Existence, uniqueness and global behavior of the solutions to some nonlinear vector equations in a finite dimensional Hilbert space. Nonlinear Analysis: Theory, Methods & Applications, 2017, 161, 157-181.	0.6	2
22	The ε -entropy of some infinite dimensional compact ellipsoids and fractal dimension of attractors. Evolution Equations and Control Theory, 2017, 6, 345-356.	0.7	2
23	Local and global smoothing effects for some linear hyperbolic equations with a strong dissipation. Transactions of the American Mathematical Society, 2016, 368, 2039-2079.	0.5	28
24	Optimal decay estimates for the general solution to a class of semi-linear dissipative hyperbolic equations. Journal of the European Mathematical Society, 2016, 18, 1961-1982.	0.7	12
25	The Remarkable Effectiveness of Time-Dependent Damping Terms for Second Order Evolution Equations. SIAM Journal on Control and Optimization, 2016, 54, 1266-1294.	1.1	9
26	Finding the exact decay rate of all solutions to some second order evolution equations with dissipation. Journal of Functional Analysis, 2016, 271, 2359-2395.	0.7	9
27	How to estimate observability constants of one-dimensional wave equations? Propagation versus spectral methods. Journal of Evolution Equations, 2016, 16, 825-856.	0.6	3
28	On the strong oscillatory behavior of all solutions to some second order evolution equations. Portugaliae Mathematica, 2015, 72, 193-206.	0.4	2
29	A description of all possible decay rates for solutions of some semilinear parabolic equations. Journal Des Mathematiques Pures Et Appliquees, 2015, 103, 868-899.	0.8	5
30	The Convergence Problem for Dissipative Autonomous Systems. SpringerBriefs in Mathematics, 2015, , .	0.2	44
31	On the Lojasiewicz exponents of quasi-homogeneous functions. Journal of Singularities, 2015, , .	0.1	1
32	The Infinite Dimensional Case. SpringerBriefs in Mathematics, 2015, , 115-132.	0.2	0
33	Variants and Additional Results. SpringerBriefs in Mathematics, 2015, , 133-139.	0.2	0
34	Global behavior of the solutions to a class of nonlinear, singular second order ODE. Nonlinear Analysis: Theory, Methods & Applications, 2014, 96, 18-37.	0.6	3
35	Sharp ultimate bounds of solutions to a class of second order linear evolution equations with bounded forcing term. Journal of Functional Analysis, 2013, 265, 2204-2225.	0.7	4
36	Compactness of trajectories to some nonlinear second order evolution equations and applications. Journal Des Mathematiques Pures Et Appliquees, 2013, 100, 295-326.	0.8	18

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37	Boundedness and stability for the damped and forced single well Duffing equation. <i>Discrete and Continuous Dynamical Systems</i> , 2013, 33, 211-223.	0.5	8
38	Analyticity and regularity for a class of second order evolution equations. <i>Evolution Equations and Control Theory</i> , 2013, 2, 101-117.	0.7	9
39	Asymptotics for a second order differential equation with a linear, slowly time-decaying damping term. <i>Evolution Equations and Control Theory</i> , 2013, 2, 461-470.	0.7	14
40	A SUFFICIENT CONDITION FOR SLOW DECAY OF A SOLUTION TO A SEMILINEAR PARABOLIC EQUATION. <i>Analysis and Applications</i> , 2012, 10, 363-371.	1.2	4
41	N-cyclic functions and multiple subharmonic solutions of Duffing's equation. <i>Journal Des Mathematiques Pures Et Appliquees</i> , 2012, 97, 411-423.	0.8	8
42	On a second order dissipative ODE in Hilbert space with an integrable source term. <i>Acta Mathematica Scientia</i> , 2012, 32, 155-163.	0.5	11
43	Some applications of the Łojasiewicz gradient inequality. <i>Communications on Pure and Applied Analysis</i> , 2012, 11, 2417-2427.	0.4	11
44	The Łojasiewicz gradient inequality in the infinite-dimensional Hilbert space framework. <i>Journal of Functional Analysis</i> , 2011, 260, 2826-2842.	0.7	30
45	Convergence and decay estimates for a class of second order dissipative equations involving a non-negative potential energy. <i>Journal of Functional Analysis</i> , 2011, 260, 2933-2963.	0.7	14
46	SHARP DECAY ESTIMATES OF THE SOLUTIONS TO A CLASS OF NONLINEAR SECOND ORDER ODE's. <i>Analysis and Applications</i> , 2011, 09, 49-69.	1.2	8
47	On the fast solution of evolution equations with a rapidly decaying source term. <i>Mathematical Control and Related Fields</i> , 2011, 1, 1-20.	0.6	3
48	The best constant for an almost critical Sobolev imbedding. <i>Portugaliae Mathematica</i> , 2009, 66, 535-541.	0.4	0
49	APPLICATIONS OF THE ŁOJASIEWICZ-SIMON, GRADIENT INEQUALITY TO GRADIENT-LIKE EVOLUTION EQUATIONS. <i>Analysis and Applications</i> , 2009, 07, 351-372.	1.2	36
50	Sharp estimates of bounded solutions to some semilinear second order dissipative equations. <i>Journal Des Mathematiques Pures Et Appliquees</i> , 2009, 92, 313-321.	0.8	7
51	L^{∞} estimates of solutions to some non-linear wave equations in one space dimension. <i>International Journal of Mathematical Modelling and Numerical Optimisation</i> , 2009, 1, 146.	0.1	10
52	Sharp estimates of bounded solutions to a second-order forced equation with structural damping. <i>Differential Equations and Applications</i> , 2009, , 341-347.	0.1	0
53	On the convergence of global and bounded solutions of some evolution equations. <i>Journal of Evolution Equations</i> , 2007, 7, 449-470.	0.6	16
54	Sharp Estimates of Bounded Solutions to Some Second-order Forced Dissipative Equations. <i>Journal of Dynamics and Differential Equations</i> , 2007, 19, 915-933.	1.0	5

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55	Decay rate of the range component of solutions to some semilinear evolution equations. <i>Nonlinear Differential Equations and Applications</i> , 2006, 13, 435-445.	0.4	13
56	STABILITY AND MULTIPLICITY OF PERIODIC OR ALMOST PERIODIC SOLUTIONS TO SCALAR FIRST-ORDER ODE. <i>Analysis and Applications</i> , 2006, 04, 237-246.	1.2	2
57	Slow and fast decay of solutions to some second order evolution equations. <i>Journal D'Analyse Mathematique</i> , 2005, 95, 297-321.	0.4	15
58	Asymptotic Stability for Intermittently Controlled Second-Order Evolution Equations. <i>SIAM Journal on Control and Optimization</i> , 2005, 43, 2089-2108.	1.1	19
59	An Example of Uniformly Recurrent Function which is not Almost Periodic. <i>Journal of Fourier Analysis and Applications</i> , 2004, 10, 217-220.	0.5	14
60	An Optimal Estimate for the Time Singular Limit of an Abstract Wave Equation. <i>Funkcialaj Ekvacioj</i> , 2004, 47, 277-290.	0.2	12
61	Rate of decay to equilibrium in some semilinear parabolic equations. <i>Journal of Evolution Equations</i> , 2003, 3, 463-484.	0.6	33
62	An optimal estimate for the difference of solutions of two abstract evolution equations. <i>Journal of Differential Equations</i> , 2003, 193, 385-395.	1.1	46
63	Remarks on weak stabilization of semilinear wave equations. <i>ESAIM - Control, Optimisation and Calculus of Variations</i> , 2001, 6, 553-560.	0.7	9
64	A Hilbert space approach to instability in semilinear partial differential equations. <i>Archiv Der Mathematik</i> , 2001, 77, 187-194.	0.3	1
65	Some Sharp Estimates for Parabolic Equations. <i>Journal of Functional Analysis</i> , 2001, 187, 110-128.	0.7	3
66	THE OSCILLATION PATTERN OF SOLUTIONS TO PARABOLIC EQUATIONS AS TIME GOES TO INFINITY. <i>Communications in Contemporary Mathematics</i> , 1999, 01, 451-466.	0.6	2
67	Convergence of bounded weak solutions of the wave equation with dissipation and analytic nonlinearity. <i>Calculus of Variations and Partial Differential Equations</i> , 1999, 9, 95-124.	0.9	81
68	Convergence of Solutions of Second-Order Gradient-Like Systems with Analytic Nonlinearities. <i>Journal of Differential Equations</i> , 1998, 144, 313-320.	1.1	87
69	Global behavior for some conservative nonlinear equations. <i>Matematica Contemporanea</i> , 1995, 8, .	0.0	0
70	A class of nonlinear, completely integrable abstract wave equations. <i>Journal of Dynamics and Differential Equations</i> , 1993, 5, 129-154.	1.0	13
71	Detailed asymptotics for a convex Hamiltonian system with two degrees of freedom. <i>Journal of Dynamics and Differential Equations</i> , 1993, 5, 155-187.	1.0	11
72	On the vibrations of rectangular plates. <i>Proceedings of the Royal Society of Edinburgh Section A: Mathematics</i> , 1991, 119, 47-62.	0.8	2

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73	A generalized internal control for the wave equation in a rectangle. <i>Journal of Mathematical Analysis and Applications</i> , 1990, 153, 190-216.	0.5	20
74	Quasi-periodicity of bounded solutions to some periodic evolution equations. <i>Journal of the Mathematical Society of Japan</i> , 1990, 42, 277.	0.3	2
75	A remark on Hölder continuity of periodic solutions to some nonlinear wave equations. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 1989, 13, 565-567.	0.6	1
76	Anti-periodic solutions of some nonlinear evolution equations. <i>Manuscripta Mathematica</i> , 1989, 63, 479-505.	0.3	65
77	Super-solutions of eigenvalue problems and the oscillation properties of second order evolution equations. <i>Journal of Differential Equations</i> , 1988, 74, 11-28.	1.1	6
78	Decay estimates for some semilinear damped hyperbolic problems. <i>Archive for Rational Mechanics and Analysis</i> , 1988, 100, 191-206.	1.1	192
79	Some oscillatory properties of the wave equation in several space dimensions. <i>Journal of Functional Analysis</i> , 1988, 76, 87-109.	0.7	15
80	On a result of K. Masuda concerning reaction-diffusion equations. <i>Tohoku Mathematical Journal</i> , 1988, 40, 159.	0.4	56
81	Attractors of asymptotically compact processes and applications to nonlinear partial differential equations. <i>Communications in Partial Differential Equations</i> , 1988, 13, 1383-1414.	1.0	63
82	A simple almost-periodicity criterion and applications. <i>Journal of Differential Equations</i> , 1987, 66, 51-61.	1.1	8
83	Asymptotic behavior for two-dimensional, quasi-autonomous, almost-periodic evolution equations. <i>Journal of Differential Equations</i> , 1987, 66, 62-70.	1.1	20
84	Asymptotics for some nonlinear O.D.E. of the second order. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 1986, 10, 1347-1355.	0.6	7
85	Non-resonance for a strongly dissipative wave equation in higher dimensions. <i>Manuscripta Mathematica</i> , 1985, 53, 145-166.	0.3	13
86	Influence of a singular perturbation on the infimum of some functionals. <i>Journal of Differential Equations</i> , 1985, 58, 43-75.	1.1	3
87	Stabilization of trajectories for some weakly damped hyperbolic equations. <i>Journal of Differential Equations</i> , 1985, 59, 145-154.	1.1	82
88	Oscillations of Anharmonic Fourier Series and the Wave Equation. <i>Revista Matemática Iberoamericana</i> , 1985, 1, 57-77.	0.4	12
89	On a uniqueness theorem of L. Amerio and G. Prouse. <i>Proceedings of the Royal Society of Edinburgh Section A: Mathematics</i> , 1984, 96, 221-230.	0.8	0
90	Asymptotic behavior of trajectories for some nonautonomous, almost periodic processes. <i>Journal of Differential Equations</i> , 1983, 49, 473-483.	1.1	20

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91	Almost periodic motion of a string vibrating against a straight fixed obstacle. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 1983, 7, 129-141.	0.6	11
92	Generalized almost periodic solutions and ergodic properties of quasi-autonomous dissipative systems. <i>Journal of Differential Equations</i> , 1983, 48, 269-279.	1.1	5
93	Almost-periodic forcing for a wave equation with a nonlinear, local damping term. <i>Proceedings of the Royal Society of Edinburgh Section A: Mathematics</i> , 1983, 94, 195-212.	0.8	21
94	Forced oscillations for some nonlinear, weakly dissipative wave equations. <i>Journal of Differential Equations</i> , 1982, 44, 440-451.	1.1	2
95	Dissipativity in the sense of Levinson for a class of second order nonlinear evolution equations. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 1982, 6, 1207-1220.	0.6	13
96	Title is missing!. <i>Indiana University Mathematics Journal</i> , 1982, 31, 167.	0.4	222
97	Theory of monotone operators and applications. <i>Lecture Notes in Mathematics</i> , 1981, , 39-95.	0.1	0
98	Smoothing effect and asymptotic behaviour for the solutions of a nonlinear time dependent system. <i>Proceedings of the Royal Society of Edinburgh Section A: Mathematics</i> , 1981, 87, 289-303.	0.8	0
99	Some nonlinear monotone cases. <i>Lecture Notes in Mathematics</i> , 1981, , 164-183.	0.1	0
100	Asymptotic behavior for an almost periodic, strongly dissipative wave equation. <i>Journal of Differential Equations</i> , 1980, 38, 422-440.	1.1	30
101	Comportement à l'infini pour certains systèmes dissipatifs non linéaires. <i>Proceedings of the Royal Society of Edinburgh Section A: Mathematics</i> , 1979, 84, 213-234.	0.8	26
102	Équations d'évolution non linéaires : solutions bornées et périodiques. <i>Annales De L'Institut Fourier</i> , 1978, 28, 201-220.	0.2	18
103	How to differentiate the projection on a convex set in Hilbert space. Some applications to variational inequalities. <i>Journal of the Mathematical Society of Japan</i> , 1977, 29, 615.	0.3	140
104	Comportement à l'infini pour les équations d'évolution avec forcing périodique. <i>Archive for Rational Mechanics and Analysis</i> , 1977, 67, 101-109.	1.1	29
105	Image d'une somme d'opérateurs monotones et applications. <i>Israel Journal of Mathematics</i> , 1976, 23, 165-186.	0.4	133
106	Positively homogeneous functions and the Łojasiewicz gradient inequality. <i>Annales Polonici Mathematici</i> , 0, 87, 165-174.	0.2	5