

# 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	Title is missing!. Indiana University Mathematics Journal, 1982, 31, 167.	0.4	222
2	Decay estimates for some semilinear damped hyperbolic problems. Archive for Rational Mechanics and Analysis, 1988, 100, 191-206.	1.1	192
3	How to differentiate the projection on a convex set in Hilbert space. Some applications to variational inequalities. Journal of the Mathematical Society of Japan, 1977, 29, 615.	0.3	140
4	Image d'une somme d'opérateurs monotones et applications. Israel Journal of Mathematics, 1976, 23, 165-186.	0.4	133
5	Convergence of Solutions of Second-Order Gradient-Like Systems with Analytic Nonlinearities. Journal of Differential Equations, 1998, 144, 313-320.	1.1	87
6	Stabilization of trajectories for some weakly damped hyperbolic equations. Journal of Differential Equations, 1985, 59, 145-154.	1.1	82
7	Convergence of bounded weak solutions of the wave equation with dissipation and analytic nonlinearity. Calculus of Variations and Partial Differential Equations, 1999, 9, 95-124.	0.9	81
8	Anti-periodic solutions of some nonlinear evolution equations. Manuscripta Mathematica, 1989, 63, 479-505.	0.3	65
9	Attractors of asymptotically compact processes and applications to nonlinear partial differential equations. Communications in Partial Differential Equations, 1988, 13, 1383-1414.	1.0	63
10	On a result of K. Masuda concerning reaction-diffusion equations. Tohoku Mathematical Journal, 1988, 40, 159.	0.4	56
11	An optimal estimate for the difference of solutions of two abstract evolution equations. Journal of Differential Equations, 2003, 193, 385-395.	1.1	46
12	The Convergence Problem for Dissipative Autonomous Systems. SpringerBriefs in Mathematics, 2015, , .	0.2	44
13	APPLICATIONS OF THE ÅŒJASIEWICZ'S SIMON, GRADIENT INEQUALITY TO GRADIENT-LIKE EVOLUTION EQUATIONS. Analysis and Applications, 2009, 07, 351-372.	1.2	36
14	Rate of decay to equilibrium in some semilinear parabolic equations. Journal of Evolution Equations, 2003, 3, 463-484.	0.6	33
15	Asymptotic behavior for an almost periodic, strongly dissipative wave equation. Journal of Differential Equations, 1980, 38, 422-440.	1.1	30
16	The ÅŒjasiewicz gradient inequality in the infinite-dimensional Hilbert space framework. Journal of Functional Analysis, 2011, 260, 2826-2842.	0.7	30
17	Comportement a l'infini pour les equations d'volution avec forcing p'riodique. Archive for Rational Mechanics and Analysis, 1977, 67, 101-109.	1.1	29
18	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

#	ARTICLE	IF	CITATIONS
19	Comportement à l'infini pour certains systèmes dissipatifs non linéaires. Proceedings of the Royal Society of Edinburgh Section A: Mathematics, 1979, 84, 213-234.	0.8	26
20	Almost-periodic forcing for a wave equation with a nonlinear, local damping term. Proceedings of the Royal Society of Edinburgh Section A: Mathematics, 1983, 94, 195-212.	0.8	21
21	Asymptotic behavior of trajectories for some nonautonomous, almost periodic processes. Journal of Differential Equations, 1983, 49, 473-483.	1.1	20
22	Asymptotic behavior for two-dimensional, quasi-autonomous, almost-periodic evolution equations. Journal of Differential Equations, 1987, 66, 62-70.	1.1	20
23	A generalized internal control for the wave equation in a rectangle. Journal of Mathematical Analysis and Applications, 1990, 153, 190-216.	0.5	20
24	Asymptotic Stability for Intermittently Controlled Second-Order Evolution Equations. SIAM Journal on Control and Optimization, 2005, 43, 2089-2108.	1.1	19
25	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
26	Équations d'évolution non linéaires : solutions bornées et périodiques. Annales De L'Institut Fourier, 1978, 28, 201-220.	0.2	18
27	On the convergence of global and bounded solutions of some evolution equations. Journal of Evolution Equations, 2007, 7, 449-470.	0.6	16
28	Some oscillatory properties of the wave equation in several space dimensions. Journal of Functional Analysis, 1988, 76, 87-109.	0.7	15
29	Slow and fast decay of solutions to some second order evolution equations. Journal D'Analyse Mathematique, 2005, 95, 297-321.	0.4	15
30	An Example of Uniformly Recurrent Function which is not Almost Periodic. Journal of Fourier Analysis and Applications, 2004, 10, 217-220.	0.5	14
31	Convergence and decay estimates for a class of second order dissipative equations involving a non-negative potential energy. Journal of Functional Analysis, 2011, 260, 2933-2963.	0.7	14
32	Asymptotics for a second order differential equation with a linear, slowly time-decaying damping term. Evolution Equations and Control Theory, 2013, 2, 461-470.	0.7	14
33	Dissipativity in the sense of Levinson for a class of second order nonlinear evolution equations. Nonlinear Analysis: Theory, Methods & Applications, 1982, 6, 1207-1220.	0.6	13
34	Non-resonance for a strongly dissipative wave equation in higher dimensions. Manuscripta Mathematica, 1985, 53, 145-166.	0.3	13
35	A class of nonlinear, completely integrable abstract wave equations. Journal of Dynamics and Differential Equations, 1993, 5, 129-154.	1.0	13
36	Decay rate of the range component of solutions to some semilinear evolution equations. Nonlinear Differential Equations and Applications, 2006, 13, 435-445.	0.4	13

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37	Oscillations of Anharmonic Fourier Series and the Wave Equation. <i>Revista Matematica Iberoamericana</i> , 1985, 1, 57-77.	0.4	12
38	Optimal decay estimates for the general solution to a class of semi-linear dissipative hyperbolic equations. <i>Journal of the European Mathematical Society</i> , 2016, 18, 1961-1982.	0.7	12
39	An Optimal Estimate for the Time Singular Limit of an Abstract Wave Equation. <i>Funkcialaj Ekvacioj</i> , 2004, 47, 277-290.	0.2	12
40	Almost periodic motion of a string vibrating against a straight fixed obstacle. <i>Nonlinear Analysis: Theory, Methods &amp; Applications</i> , 1983, 7, 129-141.	0.6	11
41	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
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	$L^{\infty}$ 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
45	Remarks on weak stabilization of semilinear wave equations. <i>ESAIM - Control, Optimisation and Calculus of Variations</i> , 2001, 6, 553-560.	0.7	9
46	The Remarkable Effectiveness of Time-Dependent Damping Terms for Second Order Evolution Equations. <i>SIAM Journal on Control and Optimization</i> , 2016, 54, 1266-1294.	1.1	9
47	Finding the exact decay rate of all solutions to some second order evolution equations with dissipation. <i>Journal of Functional Analysis</i> , 2016, 271, 2359-2395.	0.7	9
48	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
49	A simple almost-periodicity criterion and applications. <i>Journal of Differential Equations</i> , 1987, 66, 51-61.	1.1	8
50	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
51	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
52	Nonlinear Vibrations and the Wave Equation. <i>SpringerBriefs in Mathematics</i> , 2018, , .	0.2	8
53	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
54	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

#	ARTICLE	IF	CITATIONS
55	Asymptotics for some nonlinear O.D.E. of the second order. <i>Nonlinear Analysis: Theory, Methods &amp; Applications</i> , 1986, 10, 1347-1355.	0.6	7
56	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
57	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
58	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
59	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
60	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
61	A description of all possible decay rates for solutions of some semilinear parabolic equations. <i>Journal Des Mathematiques Pures Et Appliquees</i> , 2015, 103, 868-899.	0.8	5
62	Positively homogeneous functions and the Łojasiewicz gradient inequality. <i>Annales Polonici Mathematici</i> , 0, 87, 165-174.	0.2	5
63	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
64	Sharp ultimate bounds of solutions to a class of second order linear evolution equations with bounded forcing term. <i>Journal of Functional Analysis</i> , 2013, 265, 2204-2225.	0.7	4
65	Influence of a singular perturbation on the infimum of some functionals. <i>Journal of Differential Equations</i> , 1985, 58, 43-75.	1.1	3
66	Some Sharp Estimates for Parabolic Equations. <i>Journal of Functional Analysis</i> , 2001, 187, 110-128.	0.7	3
67	Global behavior of the solutions to a class of nonlinear, singular second order ODE. <i>Nonlinear Analysis: Theory, Methods &amp; Applications</i> , 2014, 96, 18-37.	0.6	3
68	How to estimate observability constants of one-dimensional wave equations? Propagation versus spectral methods. <i>Journal of Evolution Equations</i> , 2016, 16, 825-856.	0.6	3
69	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
70	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
71	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
72	Forced oscillations for some nonlinear, weakly dissipative wave equations. <i>Journal of Differential Equations</i> , 1982, 44, 440-451.	1.1	2

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73	Quasi-periodicity of bounded solutions to some periodic evolution equations. Journal of the Mathematical Society of Japan, 1990, 42, 277.	0.3	2
74	On the vibrations of rectangular plates. Proceedings of the Royal Society of Edinburgh Section A: Mathematics, 1991, 119, 47-62.	0.8	2
75	THE OSCILLATION PATTERN OF SOLUTIONS TO PARABOLIC EQUATIONS AS TIME GOES TO INFINITY. Communications in Contemporary Mathematics, 1999, 01, 451-466.	0.6	2
76	STABILITY AND MULTIPLICITY OF PERIODIC OR ALMOST PERIODIC SOLUTIONS TO SCALAR FIRST-ORDER ODE. Analysis and Applications, 2006, 04, 237-246.	1.2	2
77	On the strong oscillatory behavior of all solutions to some second order evolution equations. Portugaliae Mathematica, 2015, 72, 193-206.	0.4	2
78	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
79	A sharp stability criterion for single well Duffing and Duffing-like equations. Nonlinear Analysis: Theory, Methods & Applications, 2020, 190, 111600.	0.6	2
80	The $\varepsilon$ -entropy of some infinite dimensional compact ellipsoids and fractal dimension of attractors. Evolution Equations and Control Theory, 2017, 6, 345-356.	0.7	2
81	A remark on Hölder continuity of periodic solutions to some nonlinear wave equations. Nonlinear Analysis: Theory, Methods & Applications, 1989, 13, 565-567.	0.6	1
82	A Hilbert space approach to instability in semilinear partial differential equations. Archiv Der Mathematik, 2001, 77, 187-194.	0.3	1
83	Some Simple Problems for the Next Generations. , 2019, , 296-310.		1
84	The universal bound property for a class of second order ODEs. Portugaliae Mathematica, 2019, 76, 49-56.	0.4	1
85	Small perturbations for a Duffing-like evolution equation involving non-commuting operators. Nonlinear Differential Equations and Applications, 2021, 28, 1.	0.4	1
86	On the Lojasiewicz exponents of quasi-homogeneous functions. Journal of Singularities, 2015, , .	0.1	1
87	Theory of monotone operators and applications. Lecture Notes in Mathematics, 1981, , 39-95.	0.1	0
88	Smoothing effect and asymptotic behaviour for the solutions of a nonlinear time dependent system. Proceedings of the Royal Society of Edinburgh Section A: Mathematics, 1981, 87, 289-303.	0.8	0
89	On a uniqueness theorem of L. Amerio and G. Prouse. Proceedings of the Royal Society of Edinburgh Section A: Mathematics, 1984, 96, 221-230.	0.8	0
90	The best constant for an almost critical Sobolev imbedding. Portugaliae Mathematica, 2009, 66, 535-541.	0.4	0

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91	Existence of Forced Oscillations. SpringerBriefs in Mathematics, 2018, , 55-64.	0.2	0
92	Unbounded Linear Operators and Evolution Equations. SpringerBriefs in Mathematics, 2018, , 1-8.	0.2	0
93	Universal bounds for a class of second order evolution equations and applications. Journal Des Mathematiques Pures Et Appliquees, 2020, 142, 184-203.	0.8	0
94	Sharp ultimate velocity bounds for the general solution of some linear second order evolution equation with damping and bounded forcing. Journal of Differential Equations, 2021, 305, 72-102.	1.1	0
95	Sharp estimates of bounded solutions to a second-order forced equation with structural damping. Differential Equations and Applications, 2009, , 341-347.	0.1	0
96	Some nonlinear monotone cases. Lecture Notes in Mathematics, 1981, , 164-183.	0.1	0
97	Global behavior for some conservative nonlinear equations. Matematica Contemporanea, 1995, 8, .	0.0	0
98	The Infinite Dimensional Case. SpringerBriefs in Mathematics, 2015, , 115-132.	0.2	0
99	Variants and Additional Results. SpringerBriefs in Mathematics, 2015, , 133-139.	0.2	0
100	The Conservative Case in One Spatial Dimension. SpringerBriefs in Mathematics, 2018, , 73-82.	0.2	0
101	The Initial-Value Problem For A Mildly Perturbed Wave Equation. SpringerBriefs in Mathematics, 2018, , 27-33.	0.2	0
102	The Conservative Case in Several Spatial Dimensions. SpringerBriefs in Mathematics, 2018, , 83-90.	0.2	0
103	Solutions on $\mathbb{R}^+$ and Boundedness of the Energy. SpringerBriefs in Mathematics, 2018, , 49-54.	0.2	0
104	The Initial-Value Problem in Presence of Strong Dissipation. SpringerBriefs in Mathematics, 2018, , 35-48.	0.2	0
105	The Wave Equation in a Bounded Domain. SpringerBriefs in Mathematics, 2018, , 23-26.	0.2	0
106	A Class of Abstract Wave Equations. SpringerBriefs in Mathematics, 2018, , 9-14.	0.2	0