

Jesus Ildefonso Diaz

List of Publications by Year in descending order

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208
papers

2,876
citations

201575

27
h-index

243529

44
g-index

214
all docs

214
docs citations

214
times ranked

1035
citing authors

#	ARTICLE	IF	CITATIONS
1	Controlled boundary explosions: Dynamics after blow-up for some semilinear problems with global controls. <i>Discrete and Continuous Dynamical Systems</i> , 2023, 43, 1201-1238.	0.5	0
2	On the convergence of controls and cost functionals in some optimal control heterogeneous problems when the homogenization process gives rise to some strange terms. <i>Journal of Mathematical Analysis and Applications</i> , 2022, 506, 125559.	0.5	5
3	Finite time extinction for a class of damped Schrödinger equations with a singular saturated nonlinearity. <i>Journal of Differential Equations</i> , 2022, 308, 252-285.	1.1	1
4	Stochastic energy balance climate models with Legendre weighted diffusion and an additive cylindrical Wiener process forcing. <i>Discrete and Continuous Dynamical Systems - Series S</i> , 2022, 15, 2837.	0.6	2
5	On the Homogenization of an Optimal Control Problem in a Domain Perforated by Holes of Critical Size and Arbitrary Shape. <i>Doklady Mathematics</i> , 2022, 105, 6-13.	0.1	2
6	Steiner symmetrization for anisotropic quasilinear equations via partial discretization. <i>Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire</i> , 2021, 38, 347-368.	0.7	2
7	Half-space Gaussian symmetrization: applications to semilinear elliptic problems. <i>Advances in Nonlinear Analysis</i> , 2021, 10, 1201-1221.	1.3	0
8	Homogenization of a net of periodic critically scaled boundary obstacles related to reverse osmosis membranes. <i>Advances in Nonlinear Analysis</i> , 2020, 9, 193-227.	1.3	11
9	Finite time extinction for the strongly damped nonlinear Schrödinger equation in bounded domains. <i>Journal of Differential Equations</i> , 2020, 268, 4029-4058.	1.1	4
10	Fractional Sobolev inequalities revisited: the maximal function approach. <i>Atti Della Accademia Nazionale Dei Lincei, Classe Di Scienze Fisiche, Matematiche E Naturali, Rendiconti Lincei Matematica E Applicazioni</i> , 2020, 31, 225-236.	0.3	4
11	Energy and Large Time Estimates for Nonlinear Porous Medium Flow with Nonlocal Pressure in \mathbb{R}^N . <i>Archive for Rational Mechanics and Analysis</i> , 2020, 238, 299-345.	1.1	4
12	Pointwise Gradient Estimates in Multi-dimensional Slow Diffusion Equations with a Singular Quenching Term. <i>Advanced Nonlinear Studies</i> , 2020, 20, 477-502.	0.7	3
13	A Time-Dependent Strange Term Arising in Homogenization of an Elliptic Problem with Rapidly Alternating Neumann and Dynamic Boundary Conditions Specified at the Domain Boundary: The Critical Case. <i>Doklady Mathematics</i> , 2020, 101, 96-101.	0.1	2
14	On the well-posedness of a multiscale mathematical model for Lithium-ion batteries. <i>Advances in Nonlinear Analysis</i> , 2019, 8, 1132-1157.	1.3	6
15	On the exact multiplicity of stable ground states of non-Lipschitz semilinear elliptic equations for some classes of starshaped sets. <i>Advances in Nonlinear Analysis</i> , 2019, 9, 1046-1065.	1.3	11
16	Complete quenching phenomenon and instantaneous shrinking of support of solutions of degenerate parabolic equations with nonlinear singular absorption. <i>Proceedings of the Royal Society of Edinburgh Section A: Mathematics</i> , 2019, 149, 1323-1346.	0.8	6
17	Classification of homogenized limits of diffusion problems with spatially dependent reaction over critical-size particles. <i>Applicable Analysis</i> , 2019, 98, 232-255.	0.6	10
18	On the exact number of monotone solutions of a simplified Budyko climate model and their different stability. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2019, 24, 1033-1047.	0.5	4

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19	Some remarks on the coincidence set for the Signorini problem. <i>Opuscula Mathematica</i> , 2019, 39, 145-157.	0.3	2
20	On a Degenerate System in Glaciology Giving Rise to a Free Boundary. , 2019, , 309-317.		1
21	Generalized Gagliardo–Nirenberg inequalities using Lorentz spaces, BMO, Hölder spaces and fractional Sobolev spaces. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 2018, 173, 146-153.	0.6	19
22	Non existence of critical scales in the homogenization of the problem with p-Laplace diffusion and nonlinear reaction in the boundary of periodically distributed particles in n-dimensional domains when $p > n$. <i>Revista De La Real Academia De Ciencias Exactas, Fisicas Y Naturales - Serie A: Matematicas</i> , 2018, 112, 331-340.	0.6	2
23	Homogenization of Boundary Value Problems in Plane Domains with Frequently Alternating Type of Nonlinear Boundary Conditions: Critical Case. <i>Doklady Mathematics</i> , 2018, 97, 271-276.	0.1	6
24	Why are outcomes different for registry patients enrolled prospectively and retrospectively? Insights from the global anticoagulant registry in the FIELD-Atrial Fibrillation (GARFIELD-AF). <i>European Heart Journal Quality of Care & Clinical Outcomes</i> , 2018, 4, 27-35.	1.8	15
25	Level Set Regularization Using Geometric Flows. <i>SIAM Journal on Imaging Sciences</i> , 2018, 11, 1493-1523.	1.3	6
26	The fractional Schrödinger equation with general nonnegative potentials. The weighted space approach. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 2018, 177, 325-360.	0.6	24
27	Linear diffusion with singular absorption potential and/or unbounded convective flow: The weighted space approach. <i>Discrete and Continuous Dynamical Systems</i> , 2018, 38, 509-546.	0.5	15
28	Existence and uniqueness of solutions of Schrödinger type stationary equations with very singular potentials without prescribing boundary conditions and some applications. <i>Differential Equations and Applications</i> , 2018, , 47-74.	0.1	3
29	Flat solutions of some non-Lipschitz autonomous semilinear equations may be stable for $N \geq 3$. <i>Chinese Annals of Mathematics Series B</i> , 2017, 38, 345-378.	0.2	8
30	On the asymptotic limit of the effectiveness of reaction–diffusion equations in periodically structured media. <i>Journal of Mathematical Analysis and Applications</i> , 2017, 455, 1597-1613.	0.5	5
31	On the ambiguous treatment of the Schrödinger equation for the infinite potential well and an alternative via singular potentials: the multi-dimensional case. <i>SeMA Journal</i> , 2017, 74, 255-278.	1.0	19
32	Characterizing the strange term in critical size homogenization: Quasilinear equations with a general microscopic boundary condition. <i>Advances in Nonlinear Analysis</i> , 2017, 8, 679-693.	1.3	11
33	The extinction versus the blow-up: Global and non-global existence of solutions of source types of degenerate parabolic equations with a singular absorption. <i>Journal of Differential Equations</i> , 2017, 263, 6764-6804.	1.1	9
34	Existence and uniqueness of singular solutions of p-Laplacian with absorption for Dirichlet boundary condition. <i>Proceedings of the American Mathematical Society</i> , 2017, 145, 5235-5245.	0.4	2
35	Homogenization of variational inequalities of Signorini type for the p-Laplacian in perforated domains when $p \in (1, 2)$. <i>Doklady Mathematics</i> , 2017, 95, 151-156.	0.1	12
36	Stability results for discontinuous nonlinear elliptic and parabolic problems with a S-shaped bifurcation branch of stationary solutions. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2017, 22, 1757-1778.	0.5	6

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37	A Mathematical Proof in Nanocatalysis: Better Homogenized Results in the Diffusion of a Chemical Reactant Through Critically Small Reactive Particles. <i>Mathematics in Industry</i> , 2017, , 319-326.	0.1	0
38	Perimeter Symmetrization of Some Dynamic and Stationary Equations Involving the Monge-Ampère Operator. <i>Springer INdAM Series</i> , 2017, , 119-149.	0.4	0
39	The Effectiveness Factor of Reaction-Diffusion Equations: Homogenization and Existence of Optimal Pellet Shapes. <i>Journal of Elliptic and Parabolic Equations</i> , 2016, 2, 119-129.	0.4	4
40	Finite Speed of Propagation and Waiting Time for Local Solutions of Degenerate Equations in Viscoelastic Media or Heat Flows with Memory. <i>Journal of Elliptic and Parabolic Equations</i> , 2016, 2, 207-216.	0.4	0
41	Homogenization of the p -Laplacian with nonlinear boundary condition on critical size particles: Identifying the strange term for the some non smooth and multivalued operators. <i>Doklady Mathematics</i> , 2016, 94, 387-392.	0.1	12
42	Introduction to Mathematics and Geosciences: Global and Local Perspectives, Volume II. <i>Pure and Applied Geophysics</i> , 2016, 173, 731-737.	0.8	0
43	Some qualitative properties for geometric flows and its Euler implicit discretization. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 2016, 137, 43-76.	0.6	2
44	The Uniform Hopf Inequality for discontinuous coefficients and optimal regularity in BMO for singular problems. <i>Journal of Mathematical Analysis and Applications</i> , 2016, 437, 350-379.	0.5	11
45	A gradient estimate to a degenerate parabolic equation with a singular absorption term: The global quenching phenomena. <i>Journal of Mathematical Analysis and Applications</i> , 2016, 437, 445-473.	0.5	10
46	On the Effectiveness of Wastewater Cylindrical Reactors: an Analysis Through Steiner Symmetrization. <i>Pure and Applied Geophysics</i> , 2016, 173, 923-935.	0.8	6
47	On the ambiguous treatment of the Schrödinger equation for the infinite potential well and an alternative via flat solutions: The one-dimensional case. <i>Interfaces and Free Boundaries</i> , 2015, 17, 333-351.	0.2	16
48	Positive and nodal solutions bifurcating from the infinity for a semilinear equation: solutions with compact support. <i>Portugaliae Mathematica</i> , 2015, 72, 145-160.	0.4	6
49	Introduction to Mathematics and Geosciences: Global and Local Perspectives, Volume I. <i>Pure and Applied Geophysics</i> , 2015, 172, 1-5.	0.8	8
50	On the existence of positive solutions and solutions with compact support for a spectral nonlinear elliptic problem with strong absorption. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 2015, 119, 484-500.	0.6	13
51	On the free boundary associated with the stationary Monge-Ampère operator on the set of non strictly convex functions. <i>Discrete and Continuous Dynamical Systems</i> , 2015, 35, 1447-1468.	0.5	5
52	A problem on slender nearly cylindrical shells suggested by Torroja's structures. <i>International Journal of Engineering Science</i> , 2015, 88, 83-98.	2.7	1
53	Geometrical evolution of volcanoes: a theoretical approach. <i>Revista De La Real Academia De Ciencias Exactas, Fisicas Y Naturales - Serie A: Matematicas</i> , 2015, 109, 511-534.	0.6	0
54	Free boundaries touching the boundary of the domain for some reaction-diffusion problems. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 2015, 119, 275-294.	0.6	3

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55	Existence of weak solutions to some stationary Schrödinger equations with singular nonlinearity. Revista De La Real Academia De Ciencias Exactas, Fisicas Y Naturales - Serie A: Matematicas, 2015, 109, 43-63.	0.6	8
56	Steiner symmetrization for concave semilinear elliptic and parabolic equations and the obstacle problem. , 2015, , .		3
57	Parabolic Monge-Ampere equations giving rise to a free boundary: The worn stone model. , 2015, , .		4
58	Complete recuperation after the blow up time for semilinear problems. , 2015, , .		1
59	Stabilization of a hyperbolic/elliptic system modelling the viscoelastic-gravitational deformation in a multilayered Earth. , 2015, , .		0
60	Global Null Controllability of the 1-Dimensional Nonlinear Slow Diffusion Equation. , 2014, , 211-224.		1
61	Multiple solutions and numerical analysis to the dynamic and stationary models coupling a delayed energy balance model involving latent heat and discontinuous albedo with a deep ocean. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2014, 470, 20140376.	1.0	12
62	Asymptotic behavior of large radial solutions of a polyharmonic equation with superlinear growth. Journal of Differential Equations, 2014, 257, 4249-4276.	1.1	6
63	A nonlinear bilaplacian equation with hinged boundary conditions and very weak solutions: analysis and numerical solution. Revista De La Real Academia De Ciencias Exactas, Fisicas Y Naturales - Serie A: Matematicas, 2014, 108, 867-879.	0.6	0
64	On an elliptic system related to desertification studies. Revista De La Real Academia De Ciencias Exactas, Fisicas Y Naturales - Serie A: Matematicas, 2014, 108, 397-404.	0.6	1
65	On the free boundary for quenching type parabolic problems via local energy methods. Communications on Pure and Applied Analysis, 2014, 13, 1799-1814.	0.4	6
66	A sharper energy method for the localization of the support to some stationary Schrödinger equations with a singular nonlinearity. Discrete and Continuous Dynamical Systems, 2014, 34, 3371-3382.	0.5	7
67	l.13 Dead Cores. , 2014, , 755-778.		0
68	Global null controllability of the 1-dimensional nonlinear slow diffusion equation. Chinese Annals of Mathematics Series B, 2013, 34, 333-344.	0.2	3
69	A note on spatial uniformation for Fisher-KPP type equations with a concentration dependent diffusion. International Journal of Dynamical Systems and Differential Equations, 2012, 4, 70.	0.2	0
70	On a mathematical model arising in MHD perturbed equilibrium for Stellarator devices. A numerical approach. , 2012, , .		0
71	Localizing estimates of the support of solutions of some nonlinear Schrödinger equations " The stationary case. Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire, 2012, 29, 35-58.	0.7	11
72	Convergence to travelling waves for quasilinear Fisher-KPP type equations. Journal of Mathematical Analysis and Applications, 2012, 390, 74-85.	0.5	6

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73	On the optimal control for a semilinear equation with cost depending on the free boundary. <i>Networks and Heterogeneous Media</i> , 2012, 7, 605-615.	0.5	1
74	Construction of the maximal solution of Backus's problem in geodesy and geomagnetism. <i>Studia Geophysica Et Geodaetica</i> , 2011, 55, 415-440.	0.3	6
75	On Very Weak Positive Solutions to Some Semilinear Elliptic Problems With Simultaneous Singular Nonlinear and Spatial Dependence Terms. <i>Milan Journal of Mathematics</i> , 2011, 79, 233-245.	0.7	32
76	On the very weak solvability of the beam equation. <i>Revista De La Real Academia De Ciencias Exactas, Fisicas Y Naturales - Serie A: Matematicas</i> , 2011, 105, 167-172.	0.6	2
77	Foreword: The beginning of a new era for RACSAM. <i>Revista De La Real Academia De Ciencias Exactas, Fisicas Y Naturales - Serie A: Matematicas</i> , 2011, 105, 1-2.	0.6	0
78	Dedication to Professor Jesús Ildefonso Díaz on the Occasion of his 60th Birthday. <i>Differential Equations and Applications</i> , 2011, , 463-467.	0.1	0
79	Euler's tallest column revisited. <i>Nonlinear Analysis: Real World Applications</i> , 2010, 11, 2731-2747.	0.9	5
80	On the Time Periodic Free Boundary Associated to Some Nonlinear Parabolic Equations. <i>Boundary Value Problems</i> , 2010, 2010, 147301.	0.3	3
81	NEW L1-GRADIENT TYPE ESTIMATES OF SOLUTIONS TO ONE-DIMENSIONAL QUASILINEAR PARABOLIC SYSTEMS. <i>Communications in Contemporary Mathematics</i> , 2010, 12, 85-106.	0.6	1
82	Qualitative properties and approximation of solutions of Bingham flows: On the stabilization for large time and the geometry of the support. <i>Revista De La Real Academia De Ciencias Exactas, Fisicas Y Naturales - Serie A: Matematicas</i> , 2010, 104, 153-196.	0.6	3
83	On very weak solutions of semi-linear elliptic equations in the framework of weighted spaces with respect to the distance to the boundary. <i>Discrete and Continuous Dynamical Systems</i> , 2010, 27, 1037-1058.	0.5	24
84	Qualitative properties and approximation of solutions of Bingham flows: On the stabilization for large time and the geometry of the support. <i>Revista De La Real Academia De Ciencias Exactas, Fisicas Y Naturales - Serie A: Matematicas</i> , 2010, 104, 153-196.	0.6	0
85	Finite extinction and null controllability via delayed feedback non-local actions. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 2009, 71, e2018-e2022.	0.6	3
86	Lagrangian Approach to the Study of Level Sets: Application to a Free Boundary Problem in Climatology. <i>Archive for Rational Mechanics and Analysis</i> , 2009, 194, 75-103.	1.1	14
87	Stabilization beyond the distributions. <i>Revista De La Real Academia De Ciencias Exactas, Fisicas Y Naturales - Serie A: Matematicas</i> , 2009, 103, 167-175.	0.6	0
88	On gradient estimates and other qualitative properties of solutions of nonlinear non autonomous parabolic systems. <i>Revista De La Real Academia De Ciencias Exactas, Fisicas Y Naturales - Serie A: Matematicas</i> , 2009, 103, 201-214.	0.6	1
89	On the differentiability of very weak solutions with right-hand side data integrable with respect to the distance to the boundary. <i>Journal of Functional Analysis</i> , 2009, 257, 807-831.	0.7	35
90	Branches of positive and free boundary solutions for some singular quasilinear elliptic problems. <i>Journal of Mathematical Analysis and Applications</i> , 2009, 352, 449-474.	0.5	29

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91	On the asymptotic behaviour of solutions of a stochastic energy balance climate model. <i>Physica D: Nonlinear Phenomena</i> , 2009, 238, 880-887.	1.3	9
92	Mathematical and numerical analysis of a nonlinear diffusive climate energy balance model. <i>Mathematical and Computer Modelling</i> , 2009, 49, 1180-1210.	2.0	13
93	On a problem of slender, slightly hyperbolic, shells suggested by Torroja's structures. <i>Comptes Rendus - Mecanique</i> , 2009, 337, 1-7.	2.1	2
94	Lagrangian approach to the study of level sets II: A quasilinear equation in climatology. <i>Journal of Mathematical Analysis and Applications</i> , 2009, 352, 475-495.	0.5	6
95	On the retention of the interfaces in some elliptic and parabolic nonlinear problems. <i>Discrete and Continuous Dynamical Systems</i> , 2009, 25, 1-17.	0.5	9
96	Actions on Environment under uncertainty: stochastic formulation and the associated deterministic problem. <i>Revista De La Real Academia De Ciencias Exactas, Fisicas Y Naturales - Serie A: Matematicas</i> , 2008, 102, 335-353.	0.6	1
97	On the Mathematical Analysis of an Elastic-gravitational Layered Earth Model for Magmatic Intrusion: The Stationary Case. <i>Pure and Applied Geophysics</i> , 2008, 165, 1465-1490.	0.8	2
98	On the Coupling Between Channel Level and Surface Ground-Water Flows. <i>Pure and Applied Geophysics</i> , 2008, 165, 1511-1530.	0.8	1
99	Potential Symmetry Properties of a Family of Equations Occuring in Ice Sheet Dynamics. <i>Pure and Applied Geophysics</i> , 2008, 165, 1643-1661.	0.8	0
100	Mathematical Analysis of a Model of River Channel Formation. <i>Pure and Applied Geophysics</i> , 2008, 165, 1663-1682.	0.8	5
101	Introduction: Linking Earth Sciences and Mathematics. <i>Pure and Applied Geophysics</i> , 2008, 165, 997-1001.	0.8	1
102	A Finite Element Algorithm of a Nonlinear Diffusive Climate Energy Balance Model. <i>Pure and Applied Geophysics</i> , 2008, 165, 1025-1047.	0.8	5
103	Introduction to Earth Sciences and Mathematics, Volume II. <i>Pure and Applied Geophysics</i> , 2008, 165, 1459-1463.	0.8	1
104	Mathematical treatment of the discharge of a laminar hot gas in a stagnant colder atmosphere. <i>Journal of Applied Mechanics and Technical Physics</i> , 2008, 49, 681-692.	0.1	3
105	Estimates of the Location of a Free Boundary for the Obstacle and Stefan Problems Obtained by Means of Some Energy Methods. <i>Georgian Mathematical Journal</i> , 2008, 15, 475-484.	0.2	2
106	On a climate model with a dynamic nonlinear diffusive boundary condition. <i>Discrete and Continuous Dynamical Systems - Series S</i> , 2008, 1, 253-262.	0.6	16
107	On the Mathematical Analysis of an Elastic-gravitational Layered Earth Model for Magmatic Intrusion: The Stationary Case. , 2008, , 1465-1490.		0
108	On the Coupling Between Channel Level and Surface Ground-Water Flows. , 2008, , 1511-1530.		0

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109	Mathematical Analysis of a Model of River Channel Formation. , 2008, , 1663-1682.		0
110	Control of turbulence in oscillatory reaction-diffusion systems through a combination of global and local feedback. Physical Review E, 2007, 76, 036209.	0.8	17
111	On some Bernoulli free boundary type problems for general elliptic operators. Proceedings of the Royal Society of Edinburgh Section A: Mathematics, 2007, 137, 895-911.	0.8	6
112	Mathematical issues concerning the Boussinesq approximation for thermally coupled viscous flows. Proceedings in Applied Mathematics and Mechanics, 2007, 7, 1101205-1101206.	0.2	5
113	Asymptotics for some nonlinear damped wave equation: finite time convergence versus exponential decay results. Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire, 2007, 24, 1009-1028.	0.7	6
114	Existence of weak solutions to a system of nonlinear partial differential equations modelling ice streams. Nonlinear Analysis: Real World Applications, 2007, 8, 267-287.	0.9	4
115	On an evolution problem associated to the modelling of uncertainty into the environment. Nonlinear Analysis: Real World Applications, 2007, 8, 399-404.	0.9	4
116	On a nonlinear Schrödinger equation with a localizing effect. Comptes Rendus Mathematique, 2006, 342, 459-463.	0.1	7
117	On the instantaneous formation of cavitation in hydrodynamic lubrication. Comptes Rendus - Mecanique, 2006, 334, 645-650.	2.1	2
118	An energy balance climate model with hysteresis. Nonlinear Analysis: Theory, Methods & Applications, 2006, 64, 2053-2074.	0.6	32
119	Similarity solutions of an equation describing ice sheet dynamics. Physica D: Nonlinear Phenomena, 2006, 216, 319-326.	1.3	2
120	On an oblique boundary value problem related to the Backus problem in Geodesy. Nonlinear Analysis: Real World Applications, 2006, 7, 147-166.	0.9	9
121	ON THE COMPLEX GINZBURG-LANDAU EQUATION WITH A DELAYED FEEDBACK. Mathematical Models and Methods in Applied Sciences, 2006, 16, 1-17.	1.7	43
122	On the principle of pseudo-linearized stability: Applications to some delayed nonlinear parabolic equations. Nonlinear Analysis: Theory, Methods & Applications, 2005, 63, e997-e1007.	0.6	2
123	Stopping a Viscous Fluid by a Feedback Dissipative Field: Thermal Effects without Phase Changing. Progress in Nonlinear Differential Equations and Their Application, 2005, , 1-14.	0.4	5
124	On the Newton partially flat minimal resistance body type problems. Journal of the European Mathematical Society, 2005, 7, 395-411.	0.7	1
125	Large Solutions for a System of Elliptic Equations Arising from Fluid Dynamics. SIAM Journal on Mathematical Analysis, 2005, 37, 490-513.	0.9	18
126	On the Haïm Brezis Pioneering Contributions on the Location of Free Boundaries. Progress in Nonlinear Differential Equations and Their Application, 2005, , 217-234.	0.4	0

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127	ON A PARABOLIC PROBLEM WITH DIFFUSION ON THE BOUNDARY ARISING IN CLIMATOLOGY. , 2005, , .		1
128	Mathematical Analysis, Controllability and Numerical Simulation of a Simple Model of Avascular Tumor Growth. Handbook of Numerical Analysis, 2004, 12, 189-230.	0.9	3
129	Pointwise gradient estimates of solutions to onedimensional nonlinear parabolic equations. , 2004, , 577-602.		1
130	Stopping a Viscous Fluid by a Feedback Dissipative Field: I. The Stationary Stokes Problem. Journal of Mathematical Fluid Mechanics, 2004, 6, 439-461.	0.4	18
131	A Free Boundary Problem Related to the Location of Volcanic Gas Sources. Pure and Applied Geophysics, 2004, 161, 1509-1517.	0.8	2
132	Global stability for convection when the viscosity has a maximum. Continuum Mechanics and Thermodynamics, 2004, 16, 347-352.	1.4	10
133	An ellipticâ€“parabolic equation with a nonlocal term for the transient regime of a plasma in a Stellarator. Journal of Differential Equations, 2004, 198, 321-355.	1.1	12
134	Numerical experiments regarding the distributed control of semilinear parabolic problems. Computers and Mathematics With Applications, 2004, 48, 1575-1586.	1.4	6
135	Pointwise gradient estimates of solutions to onedimensional nonlinear parabolic equations. Journal of Evolution Equations, 2003, 3, 577-602.	0.6	1
136	A note on the dynamics of an oscillator in the presence of strong friction. Nonlinear Analysis: Theory, Methods & Applications, 2003, 55, 209-216.	0.6	22
137	On the mathematical controllability in a simple growth tumors model by the internal localized action of inhibitors. Nonlinear Analysis: Real World Applications, 2003, 4, 109-125.	0.9	6
138	On a Doubly Nonlinear Parabolic Obstacle Problem Modelling Ice Sheet Dynamics. SIAM Journal on Applied Mathematics, 2003, 63, 683-707.	0.8	52
139	Effective Chemical Processes in Porous Media. Mathematical Models and Methods in Applied Sciences, 2003, 13, 1437-1462.	1.7	42
140	John von Neumann: precursor del CÃ¡lculo CientÃ­fico y de la MeteorologÃ­a. Arbor, 2003, CLXXV, 1455-1484.	0.1	0
141	ON THE INVISCID AND NON-RESISTIVE LIMIT FOR THE EQUATIONS OF INCOMPRESSIBLE MAGNETOHYDRODYNAMICS. Mathematical Models and Methods in Applied Sciences, 2002, 12, 1401-1419.	1.7	18
142	Diffusive energy balance models in climatology. Pakistan Journal of Medical Sciences, 2002, 31, 297-328.	0.4	3
143	Infinitely many stationary solutions for a simple climate model via a shooting method. Mathematical Methods in the Applied Sciences, 2002, 25, 327-334.	1.2	11
144	Some Qualitative Properties for the Total Variation Flow. Journal of Functional Analysis, 2002, 188, 516-547.	0.7	126

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145	Analysis of a Degenerate Obstacle Problem on an Unbounded Set Arising in the Environment. Applied Mathematics and Optimization, 2002, 45, 251-267.	0.8	6
146	On the mathematical analysis of the limit case of a radiative-convective climate model. Nonlinear Analysis: Real World Applications, 2002, 3, 293-305.	0.9	1
147	On a nonlocal quasilinear parabolic model related to a current-carrying Stellarator. Nonlinear Analysis: Real World Applications, 2002, 3, 503-514.	0.9	4
148	On the confinement of a viscous fluid by means of a feedback external field. Comptes Rendus - Mecanique, 2002, 330, 797-802.	2.1	7
149	Spatial and continuous dependence estimates in linear viscoelasticity. Journal of Mathematical Analysis and Applications, 2002, 273, 1-16.	0.5	15
150	Energy Methods for Free Boundary Problems. , 2002, , .		104
151	Energy Methods for Free Boundary Problems: Applications to Nonlinear PDEs and Fluid Mechanics. Progress in Nonlinear Differential Equations and Their Applications, Vol 48. Applied Mechanics Reviews, 2002, 55, B74-B75.	4.5	39
152	On a quasilinear degenerate system arising in semiconductors theory. Part I: Existence and uniqueness of solutions. Nonlinear Analysis: Real World Applications, 2001, 2, 305-336.	0.9	26
153	A note on hysteresis in glaciology. Applied Mathematics Letters, 2000, 13, 125-129.	1.5	1
154	On a quasilinear degenerate system arising in semiconductor theory. Part II: Localization of vacuum solutions. Nonlinear Analysis: Theory, Methods & Applications, 1999, 36, 569-594.	0.6	12
155	On a degenerate parabolic/hyperbolic system in glaciology giving rise to a free boundary. Nonlinear Analysis: Theory, Methods & Applications, 1999, 38, 649-673.	0.6	13
156	Global bifurcation and continua of nonnegative solutions for a quasilinear elliptic problem. Comptes Rendus Mathematique, 1999, 329, 587-592.	0.5	28
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158	On the Uniqueness of Solutions of a Nonlinear Elliptic Problem Arising in the Confinement of a Plasma in a Stellarator Device. Applied Mathematics and Optimization, 1999, 39, 61-73.	0.8	2
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