Juan-Luis VÃ¡zquez

List of Publications by Year
in descending order

241 papers	9,922 citations	38742 50 h-index	54911 84 g-index
248 all docs	248 docs citations	248 times ranked	2055 citing authors

#	Article	IF	Citations
1	Growing solutions of the fractional p-Laplacian equation in the Fast Diffusion range. Nonlinear Analysis: Theory, Methods & Applications, 2022, 214, 112575.	1.1	5
2	Infinite-time concentration in aggregation–diffusion equations with a given potential. Journal Des Mathematiques Pures Et Appliquees, 2022, 157, 346-398.	1.6	3
3	Vortex formation for a non-local interaction model with Newtonian repulsion and superlinear mobility. Advances in Nonlinear Analysis, 2022, 11, 937-967.	2.6	4
4	Blow-up phenomena in nonlocal eigenvalue problems: When theories of L1 and L2 meet. Journal of Functional Analysis, 2021, 280, 108845.	1.4	8
5	Characterisation of homogeneous fractional Sobolev spaces. Calculus of Variations and Partial Differential Equations, 2021, 60, 1.	1.7	25
6	The fractional p-Laplacian evolution equation in $${\mathbb {R}}^N$$ in the sublinear case. Calculus of Variations and Partial Differential Equations, 2021, 60, 1.	1.7	16
7	Anisotropic ?-Laplacian Evolution of Fast Diffusion Type. Advanced Nonlinear Studies, 2021, 21, 523-555.	1.7	16
8	Three Representations of the Fractional p-Laplacian: Semigroup, Extension and Balakrishnan Formulas. Fractional Calculus and Applied Analysis, 2021, 24, 966-1002.	2.2	12
9	A simple proof of the generalized Leibniz rule on bounded Euclidean domains. Forum Mathematicum, 2021, 33, 1561-1572.	0.7	1
10	The one-phase fractional Stefan problem. Mathematical Models and Methods in Applied Sciences, 2021, 31, 83-131.	3.3	12
11	Travelling wave behaviour arising in nonlinear diffusion problems posed in tubular domains. Journal of Differential Equations, 2020, 269, 2664-2696.	2.2	4
12	Estimates on translations and Taylor expansions in fractional Sobolev spaces. Nonlinear Analysis: Theory, Methods & Applications, 2020, 200, 111995.	1.1	8
13	The evolution fractional p-Laplacian equation in <math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e73" altimg="si8.svg"><mml:msup><mml:mrow><mml:mi mathvariant="double-struck">R</mml:mi></mml:mrow><mml:mrow><mml:mi>N</mml:mi></mml:mrow></mml:msup></mml:math> Fundamental solution and asymptotic behaviour. Nonlinear Analysis: Theory, Methods & Applications, 2020, 199, 112034.	1.1	20
14	Separatrices in the Hamilton–Jacobi formalism of inflaton models. Journal of Mathematical Physics, 2020, 61, .	1.1	5
15	On a fractional thin film equation. Advances in Nonlinear Analysis, 2020, 9, 1516-1558.	2.6	10
16	On the Two-phase Fractional Stefan Problem. Advanced Nonlinear Studies, 2020, 20, 437-458.	1.7	9
17	Equivalence between radial solutions of different parabolic gradient-diffusion equations and applications. Annali Della Scuola Normale Superiore Di Pisa Classe Di Scienze, 2020, , 303-359.	0.2	3
18	Existence of Weak Solutions for a General Porous Medium Equation with Nonlocal Pressure. Archive for Rational Mechanics and Analysis, 2019, 233, 451-496.	2.4	15

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19	The porous medium equation on Riemannian manifolds with negative curvature: the superquadratic case. Mathematische Annalen, 2019, 373, 119-153.	1.4	9
20	Regularity of Solutions and Interfaces to Degenerate Parabolic Equations. The Intersection Comparison Method. , 2019, , 115-130.		2
21	The fractional SchrÃ¶dinger equation with singular potential and measure data. Discrete and Continuous Dynamical Systems, 2019, 39, 7113-7139.	0.9	12
22	Sharp global estimates for local and nonlocal porous medium-type equations in bounded domains. Analysis and PDE, 2018, 11, 945-982.	1.4	34
23	Flatness implies smoothness for solutions of the porous medium equation. Calculus of Variations and Partial Differential Equations, 2018, 57, 1.	1.7	12
24	Sharp boundary behaviour of solutions to semilinear nonlocal elliptic equations. Calculus of Variations and Partial Differential Equations, 2018, 57, 1.	1.7	24
25	Asymptotic behaviour for the fractional heat equation in the Euclidean space. Complex Variables and Elliptic Equations, 2018, 63, 1216-1231.	0.8	13
26	Porous medium equation with nonlocal pressure in a bounded domain. Communications in Partial Differential Equations, 2018, 43, 1502-1539.	2.2	10
27	The fractional SchrÃ¶dinger equation with general nonnegative potentials. The weighted space approach. Nonlinear Analysis: Theory, Methods & Applications, 2018, 177, 325-360.	1.1	24
28	Porous Medium Equation with Nonlocal Pressure. Springer Optimization and Its Applications, 2018, , 277-308.	0.9	4
29	The Fisherâ€"KPP problem with doubly nonlinear â€œfastâ€•diffusion. Nonlinear Analysis: Theory, Methods & Applications, 2017, 157, 212-248.	1.1	20
30	Symmetrization for fractional elliptic and parabolic equations and an isoperimetric application. Chinese Annals of Mathematics Series B, 2017, 38, 661-686.	0.4	12
31	Nonlocal and Nonlinear Diffusions and Interactions: New Methods and Directions. Lecture Notes in Mathematics, 2017, , .	0.2	5
32	Weak and smooth solutions for a fractional Yamabe flow: The case of general compact and locally conformally flat manifolds. Communications in Partial Differential Equations, 2017, 42, 1481-1496.	2.2	5
33	The porous medium equation on Riemannian manifolds with negative curvature. The large-time behaviour. Advances in Mathematics, 2017, 314, 328-377.	1.1	25
34	Optimal existence and uniqueness theory for the fractional heat equation. Nonlinear Analysis: Theory, Methods & Applications, 2017, 153, 142-168.	1.1	70
35	Classical solutions and higher regularity for nonlinear fractional diffusion equations. Journal of the European Mathematical Society, 2017, 19, 1949-1975.	1.4	37
36	The Mathematical Theories of Diffusion: Nonlinear and Fractional Diffusion. Lecture Notes in Mathematics, 2017, , 205-278.	0.2	54

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37	The Fisher-KPP problem with doubly nonlinear diffusion. Journal of Differential Equations, 2017, 263, 7647-7708.	2.2	28
38	Regularity of solutions of the fractional porous medium flow with exponent $1/2$. St Petersburg Mathematical Journal, 2016, 27, 437-460.	0.4	14
39	Existence of maximal solutions for some very singular nonlinear fractional diffusion equations in 1D. Journal of Evolution Equations, 2016, 16, 723-758.	1.1	4
40	Non-existence and instantaneous extinction of solutions for singular nonlinear fractional diffusion equations. Calculus of Variations and Partial Differential Equations, 2016, 55, 1.	1.7	7
41	The Dirichlet problem for the fractional p-Laplacian evolution equation. Journal of Differential Equations, 2016, 260, 6038-6056.	2.2	51
42	Fractional nonlinear degenerate diffusion equations on bounded domains part I. Existence, uniqueness and upper bounds. Nonlinear Analysis: Theory, Methods & Applications, 2016, 131, 363-398.	1.1	30
43	Finite and infinite speed of propagation for porous medium equations with nonlocal pressure. Journal of Differential Equations, 2016, 260, 1154-1199.	2.2	29
44	The mesa problem for the fractional porous medium equation. Interfaces and Free Boundaries, 2015, 17, 263-288.	0.8	4
45	Existence, uniqueness and asymptotic behaviour for fractional porous medium equations on bounded domains. Discrete and Continuous Dynamical Systems, 2015, 35, 5725-5767.	0.9	114
46	Some free boundary problems involving non-local diffusion and aggregation. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2015, 373, 20140275.	3.4	13
47	Transformations of self-similar solutions for porous medium equations of fractional type. Nonlinear Analysis: Theory, Methods & Applications, 2015, 119, 62-73.	1.1	17
48	Fundamental solution and long time behavior of the Porous Medium Equation in hyperbolic space. Journal Des Mathematiques Pures Et Appliquees, 2015, 104, 454-484.	1.6	35
49	A Priori Estimates for Fractional Nonlinear Degenerate Diffusion Equations on Bounded Domains. Archive for Rational Mechanics and Analysis, 2015, 218, 317-362.	2.4	64
50	Free boundary problems: the forefront of current and future developments. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2015, 373, 20140285.	3.4	13
51	Exponential convergence towards stationary states for the 1D porous medium equation with fractional pressure. Journal of Differential Equations, 2015, 258, 736-763.	2.2	25
52	Optimal estimates for fractional fast diffusion equations. Journal Des Mathematiques Pures Et Appliquees, 2015, 103, 535-556.	1.6	23
53	Barenblatt solutions and asymptotic behaviour for a nonlinear fractional heat equation of porous medium type. Journal of the European Mathematical Society, 2014, 16, 769-803.	1.4	58
54	Symmetrization for linear and nonlinear fractional parabolic equations of porous medium type. Journal Des Mathematiques Pures Et Appliquees, 2014, 101, 553-582.	1.6	30

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55	A mean field equation as limit of nonlinear diffusions with fractional Laplacian operators. Calculus of Variations and Partial Differential Equations, 2014, 49, 1091-1120.	1.7	37
56	Quantitative local and global a priori estimates for fractional nonlinear diffusion equations. Advances in Mathematics, 2014, 250, 242-284.	1.1	76
57	Finite and infinite speed of propagation for porous medium equations with fractional pressure. Comptes Rendus Mathematique, 2014, 352, 123-128.	0.3	20
58	Classical solutions for a logarithmic fractional diffusion equation. Journal Des Mathematiques Pures Et Appliquees, 2014, 101, 901-924.	1.6	15
59	The Fisher-KPP Equation with Nonlinear Fractional Diffusion. SIAM Journal on Mathematical Analysis, 2014, 46, 3241-3276.	1.9	32
60	The Heleâ€"Shaw Asymptotics for Mechanical Models of Tumor Growth. Archive for Rational Mechanics and Analysis, 2014, 212, 93-127.	2.4	92
61	Recent progress in the theory of nonlinear diffusion with fractional Laplacian operators. Discrete and Continuous Dynamical Systems - Series S, 2014, 7, 857-885.	1.1	92
62	Degenerate homogeneous parabolic equations associated with the infinity-Laplacian. Calculus of Variations and Partial Differential Equations, 2013, 46, 705-724.	1.7	13
63	Classification of radial solutions to the Emdenâ€"Fowler equation on the hyperbolic space. Calculus of Variations and Partial Differential Equations, 2013, 46, 375-401.	1.7	27
64	Asymptotic behaviour of the doubly nonlinear diffusion equation on bounded domains. Nonlinear Analysis: Theory, Methods & Applications, 2013, 77, 1-32.	1.1	23
65	Porous media equations with two weights: Smoothing and decay properties of energy solutions via PoincarÃ© inequalities. Discrete and Continuous Dynamical Systems, 2013, 33, 3599-3640.	0.9	45
66	Regularity of solutions of the fractional porous medium flow. Journal of the European Mathematical Society, 2013, 15, 1701-1746.	1.4	66
67	Hardy type inequalities and hidden energies. Discrete and Continuous Dynamical Systems, 2013, 33, 5457-5491.	0.9	8
68	Functional Aspects of the Hardy Inequality: Appearance of a Hidden Energy. Springer Proceedings in Mathematics and Statistics, 2013, , 653-665.	0.2	1
69	A Porous Medium Equation Involving the Infinity-Laplacian. Viscosity Solutions and Asymptotic Behavior. Communications in Partial Differential Equations, 2012, 37, 753-793.	2.2	8
70	Nonlinear Diffusion with Fractional Laplacian Operators. Abel Symposia, 2012, , 271-298.	0.3	95
71	Functional aspects of the Hardy inequality: appearance of a hidden energy. Journal of Evolution Equations, 2012, 12, 713-739.	1.1	15
72	Quantitative Local Bounds for Subcritical Semilinear Elliptic Equations. Milan Journal of Mathematics, 2012, 80, 65-118.	1.1	6

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73	A General Fractional Porous Medium Equation. Communications on Pure and Applied Mathematics, 2012, 65, 1242-1284.	3.1	131
74	Rate of Convergence to Barenblatt Profiles for the Fast Diffusion Equation. Archive for Rational Mechanics and Analysis, 2012, 204, 599-625.	2.4	21
75	Behaviour near extinction for the Fast Diffusion Equation on bounded domains. Journal Des Mathematiques Pures Et Appliquees, 2012, 97, 1-38.	1.6	40
76	Large-time geometrical properties of solutions of the Barenblatt equation of elasto-plastic filtration. Journal of Differential Equations, 2012, 252, 4229-4242.	2.2	3
77	Asymptotic behaviour of a nonlinear parabolic equation with gradient absorption and critical exponent. Interfaces and Free Boundaries, 2011, 13, 271-295.	0.8	8
78	Asymptotic behaviour of a porous medium equation with fractional diffusion. Discrete and Continuous Dynamical Systems, 2011, 29, 1393-1404.	0.9	68
79	Highly time-oscillating solutions for very fast diffusion equations. Journal of Evolution Equations, 2011, 11, 725-742.	1.1	12
80	Nonlinear Porous Medium Flow with Fractional Potential Pressure. Archive for Rational Mechanics and Analysis, 2011, 202, 537-565.	2.4	149
81	Multiple blow-up for a porous medium equation with reaction. Mathematische Annalen, 2011, 350, 801-827.	1.4	12
82	A fractional porous medium equation. Advances in Mathematics, 2011, 226, 1378-1409.	1.1	161
83	Heat equation with dynamical boundary conditions of reactive–diffusive type. Journal of Differential Equations, 2011, 250, 2143-2161.	2.2	47
84	The Evolution of Singularities in Fast Diffusion Equations: Infinite-Time Blow-Down. SIAM Journal on Mathematical Analysis, 2011, 43, 1499-1535.	1.9	11
85	A continuum of extinction rates for the fast diffusion equation. Communications on Pure and Applied Analysis, 2011, 10, 1129-1147.	0.8	9
86	Special Fast Diffusion with Slow Asymptotics: Entropy Method and Flow on a Riemannian Manifold. Archive for Rational Mechanics and Analysis, 2010, 196, 631-680.	2.4	36
87	Positivity, local smoothing, and Harnack inequalities for very fast diffusion equations. Advances in Mathematics, 2010, 223, 529-578.	1.1	56
88	Local smoothing effects, positivity, and Harnack inequalities for the fast p-Laplacian equation. Advances in Mathematics, 2010, 224, 2151-2215.	1.1	38
89	Sharp rates of decay of solutions to the nonlinear fast diffusion equation via functional inequalities. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 16459-16464.	7.1	70
90	Long time behavior for the inhomogeneous PME in a medium with rapidly decaying density. Discrete and Continuous Dynamical Systems, 2010, 26, 521-549.	0.9	30

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91	Noncoercive convection–diffusion elliptic problems with Neumann boundary conditions. Calculus of Variations and Partial Differential Equations, 2009, 34, 413-434.	1.7	27
92	Asymptotic analysis of the p-Laplacian flow in an exterior domain. Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire, 2009, 26, 497-520.	1.4	7
93	On the Laplace equation with dynamical boundary conditions of reactive–diffusive type. Journal of Mathematical Analysis and Applications, 2009, 354, 674-688.	1.0	17
94	Asymptotics of the Fast Diffusion Equation via Entropy Estimates. Archive for Rational Mechanics and Analysis, 2009, 191, 347-385.	2.4	97
95	Measure-valued solutions and the phenomenon of blow-down in logarithmic diffusion. Journal of Mathematical Analysis and Applications, 2009, 352, 515-547.	1.0	9
96	Local Aronson–Bénilan estimates and entropy formulae for porous medium and fast diffusion equations on manifolds. Journal Des Mathematiques Pures Et Appliquees, 2009, 91, 1-19.	1.6	55
97	Anomalous large-time behaviour of the p-Laplacian flow in an exterior domain in low dimension. Journal of the European Mathematical Society, 2009, 12, 249-277.	1.4	4
98	Long time behavior for the inhomogeneous PME in a medium with slowly decaying density. Communications on Pure and Applied Analysis, 2009, 8, 493-508.	0.8	31
99	Parabolic approach to nonlinear elliptic eigenvalue problems. Advances in Mathematics, 2008, 219, 2006-2028.	1.1	15
100	Fast diffusion flow on manifolds of nonpositive curvature. Journal of Evolution Equations, 2008, 8, 99-128.	1.1	38
101	Radial equivalence for the two basic nonlinear degenerate diffusion equations. Journal Des Mathematiques Pures Et Appliquees, 2008, 89, 1-24.	1.6	27
102	WAVE EQUATION WITH SECOND-ORDER NON-STANDARD DYNAMICAL BOUNDARY CONDITIONS. Mathematical Models and Methods in Applied Sciences, 2008, 18, 2019-2054.	3.3	9
103	Heat Equation with Dynamical Boundary Conditions of Reactive Type. Communications in Partial Differential Equations, 2008, 33, 561-612.	2.2	36
104	The inhomogeneous PME in several space dimensions. Existence and uniqueness of finite energy solutions. Communications on Pure and Applied Analysis, 2008, 7, 1275-1294.	0.8	22
105	POROUS MEDIUM FLOW IN A TUBE: TRAVELING WAVES AND KPP BEHAVIOR. Communications in Contemporary Mathematics, 2007, 09, 731-751.	1.2	8
106	Reverse Smoothing Effects, Fine Asymptotics, and Harnack Inequalities for Fast Diffusion Equations. Boundary Value Problems, 2007, 2007, 1-31.	0.7	3
107	Multiple blowup for nonlinear heat equations at different places and different times. Indiana University Mathematics Journal, 2007, 56, 2859-2886.	0.9	7
108	Hardy–Poincaré inequalities and applications to nonlinear diffusions. Comptes Rendus Mathematique, 2007, 344, 431-436.	0.3	41

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109	Heat Equation with Dynamical Boundary Conditions of Locally Reactive Type. Semigroup Forum, 2007, 74, 1-40.	0.6	15
110	Asymptotic Complexity in Filtration Equations. Journal of Evolution Equations, 2007, 7, 471-495.	1.1	18
111	Viscosity solutions for elliptic-parabolic problems. Nonlinear Differential Equations and Applications, 2007, 14, 75-90.	0.8	6
112	Localized Non-diffusive Asymptotic Patterns for Nonlinear Parabolic Equations with Gradient Absorption. Journal of Dynamics and Differential Equations, 2007, 19, 985-1005.	1.9	17
113	Finite-time blow-down in the evolution of point masses by planar logarithmic diffusion. Discrete and Continuous Dynamical Systems, 2007, 19, 1-35.	0.9	10
114	Large-time geometric properties of solutions of the evolution p-Laplacian equation. Journal of Differential Equations, 2006, 229, 389-411.	2.2	50
115	Classification of blow-up with nonlinear diffusion and localized reaction. Journal of Differential Equations, 2006, 231, 195-211.	2.2	31
116	Global positivity estimates and Harnack inequalities for the fast diffusion equation. Journal of Functional Analysis, 2006, 240, 399-428.	1.4	47
117	The Interfaces of an Inhomogeneous Porous Medium Equation with Convection. Communications in Partial Differential Equations, 2006, 31, 497-514.	2.2	7
118	LACK OF COLLISION IN A SIMPLIFIED 1D MODEL FOR FLUID–SOLID INTERACTION. Mathematical Models and Methods in Applied Sciences, 2006, 16, 637-678.	3.3	34
119	Nonuniqueness of solutions to semilinear parabolic equations with singular coefficients. Communications on Pure and Applied Analysis, 2006, 5, 155-179.	0.8	3
120	The Cauchy problem for the inhomogeneous porous medium equation. Networks and Heterogeneous Media, 2006, 1, 337-351.	1.1	30
121	Symmetrization and Mass Comparison for Degenerate Nonlinear Parabolic and Related Elliptic Equations. Advanced Nonlinear Studies, 2005, 5, 87-131.	1.7	32
122	Self-similar solutions of a semilinear parabolic equation with inverse-square potential. Journal of Differential Equations, 2005, 219, 40-77.	2.2	4
123	The diffusive limit for Carleman-type kinetic models. Nonlinearity, 2005, 18, 1223-1248.	1.4	62
124	Failure of the Strong Maximum Principle in Nonlinear Diffusion. Existence of Needles. Communications in Partial Differential Equations, 2005, 30, 1263-1303.	2.2	30
125	SINGULAR FREE BOUNDARY PROBLEM FROM IMAGE PROCESSING. Mathematical Models and Methods in Applied Sciences, 2005, 15, 689-715.	3.3	42
126	The Porous Medium Equation. New Contractivity Results. Progress in Nonlinear Differential Equations and Their Application, 2005, , 433-451.	0.9	6

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127	Viscosity solutions for quasilinear degenerate parabolic equations of porous medium type. Indiana University Mathematics Journal, 2005, 54, 817-860.	0.9	44
128	Stabilization towards a singular steady state with gradient blow-up for a diffusion-convection problem. Discrete and Continuous Dynamical Systems, 2005, 14, 221-234.	0.9	17
129	Dirichlet boundary conditions can prevent blow-up in reaction-diffusion equations and systems. Discrete and Continuous Dynamical Systems, 2005, 14, 63-74.	0.9	7
130	Nonlinear diffusion and image contour enhancement. Interfaces and Free Boundaries, 2004, 6, 31-54.	0.8	13
131	Intermediate Asymptotics for Inhomogeneous Nonlinear Heat Conduction. Journal of Mathematical Sciences, 2004, 120, 1277-1294.	0.4	13
132	The Dirichlet Problem for the Porous Medium Equation in Bounded Domains. Asymptotic Behavior. Monatshefte Fur Mathematik, 2004, 142, 81-111.	0.9	64
133	Thermal avalanche for blowup solutions of semilinear heat equations. Communications on Pure and Applied Mathematics, 2004, 57, 59-98.	3.1	12
134	The Dirichlet Problem for the Porous Medium Equation in Bounded Domains. Asymptotic Behavior. , 2004, , 81-111.		1
135	FROM KINETIC SYSTEMS TO DIFFUSION EQUATIONS. , 2004, , .		0
136	Asymptotic behaviour for the porous medium equation posed in the whole space. Journal of Evolution Equations, 2003, 3, 67-118.	1.1	151
137	Darcy's Law and the Theory of Shrinking Solutions of Fast Diffusion Equations. SIAM Journal on Mathematical Analysis, 2003, 35, 1005-1028.	1.9	36
138	The Nonlinearly Damped Oscillator. ESAIM - Control, Optimisation and Calculus of Variations, 2003, 9, 231-246.	1.3	4
139	Fine Asymptotics for Fast Diffusion Equations. Communications in Partial Differential Equations, 2003, 28, 1023-1056.	2.2	84
140	Large Time Behavior for a Simplified 1D Model of Fluid–Solid Interaction€. Communications in Partial Differential Equations, 2003, 28, 1705-1738.	2.2	49
141	Geometrical properties of solutions of the Porous Medium Equation for large times. Indiana University Mathematics Journal, 2003, 52, 0-0.	0.9	41
142	Asymptotic behaviour for the porous medium equation posed in the whole space. , 2003, , 67-118.		26
143	The Pressure Equation in the Fast Diffusion Range. Revista Matematica Iberoamericana, 2003, 19, 873-917.	0.9	11
144	COMPLEXITY OF LARGE TIME BEHAVIOUR OF EVOLUTION EQUATIONS WITH BOUNDED DATA. Chinese Annals of Mathematics Series B, 2002, 23, 293-310.	0.4	53

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145	The problem Of blow-up in nonlinear parabolic equations. Discrete and Continuous Dynamical Systems, 2002, 8, 399-433.	0.9	263
146	ON UNIQUENESS FOR THE INVERSE SCATTERING PROBLEM AT FIXED ENERGY FOR A METRIC ON. Communications in Partial Differential Equations, 2002, 27, 381-393.	2.2	3
147	COMPLETE BLOW-UP AND THERMAL AVALANCHE FOR HEAT EQUATIONS WITH NONLINEAR BOUNDARY CONDITIONS. Communications in Partial Differential Equations, 2002, 27, 395-424.	2.2	12
148	Obstructions to Existence in Fast-Diffusion Equations. Journal of Differential Equations, 2002, 184, 348-385.	2.2	36
149	Theory of Extended SolutionsÂ¶for Fast-Diffusion EquationsÂ¶in Optimal Classes of Data.Â¶Radiation from Singularities. Archive for Rational Mechanics and Analysis, 2002, 164, 133-187.	2.4	116
150	Uniqueness of asymptotic profiles for an extinction problem. Nonlinear Analysis: Theory, Methods & Applications, 2002, 50, 495-507.	1.1	8
151	Ignition and propagation in an integro-differential model for spherical flames. Discrete and Continuous Dynamical Systems - Series B, 2002, 2, 379-387.	0.9	1
152	Quenching for a One-Dimensional Fully Nonlinear Parabolic Equation in Detonation Theory. SIAM Journal on Applied Mathematics, 2001, 61, 1253-1285.	1.8	3
153	Extinction behaviour for fast diffusion equations with absorption. Nonlinear Analysis: Theory, Methods & Applications, 2001, 43, 943-985.	1.1	30
154	The Hardy Inequality and the Asymptotic Behaviour of the Heat Equation with an Inverse-Square Potential. Journal of Functional Analysis, 2000, 173, 103-153.	1.4	292
155	Behaviour of interfaces in a diffusion-absorption equation with critical exponents. Interfaces and Free Boundaries, 2000, 2, 425-448.	0.8	9
156	Very intense pulse in the groundwater flow in fissurized-porous stratum. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 1366-1369.	7.1	3
157	Asymptotics of the Fast-Diffusion Equation with Critical Exponent. SIAM Journal on Mathematical Analysis, 2000, 31, 1157-1174.	1.9	64
158	SECOND-ORDER INTERFACE EQUATIONS FOR NONLINEAR DIFFUSION WITH VERY STRONG ABSORPTION. Communications in Contemporary Mathematics, 1999, 01, 51-64.	1.2	10
159	Asymptotic behaviour of a generalized Burgers' equation. Journal Des Mathematiques Pures Et Appliquees, 1999, 78, 633-666.	1.6	32
160	Regularity of Interfaces in Diffusion Processes under the Influence of Strong Absorption. Archive for Rational Mechanics and Analysis, 1999, 149, 183-212.	2.4	26
161	Free boundary layer formation in nonlinear heat propagation. Communications in Partial Differential Equations, 1999, 24, 1945-1965.	2.2	2
162	Domain of existence and blowup for the exponential reaction-diffusion equation. Indiana University Mathematics Journal, 1999, 48, 0-0.	0.9	32

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163	Limit behaviour of focusing solutions to nonlinear diffusions. Communications in Partial Differential Equations, 1998, 23, 197-206.	2.2	10
164	A new free boundary problem for unsteady flows in porous media. European Journal of Applied Mathematics, 1998, 9, 37-54.	2.9	35
165	Incomplete blow-up and singular interfaces for quasilinear heat equations. Communications in Partial Differential Equations, 1997, 22, 1405-1452.	2.2	2
166	Optimal existence and uniqueness in a nonlinear diffusionâ€"absorption equation with critical exponents. Proceedings of the Royal Society of Edinburgh Section A: Mathematics, 1997, 127, 217-242.	1.2	1
167	Blow-up solutions of some nonlinear elliptic problems. Revista Matematica Complutense, 1997, 10, 443.	1.2	144
168	Continuation of blowup solutions of nonlinear heat equations in several space dimensions. Communications on Pure and Applied Mathematics, 1997, 50, 1-67.	3.1	230
169	Extinction and focusing behaviour of spherical and annular flames described by a free boundary problem. Journal Des Mathematiques Pures Et Appliquees, 1997, 76, 563-608.	1.6	20
170	Blow-Up for Quasilinear Heat Equations Described by Means of Nonlinear Hamiltonâ€"Jacobi Equations. Journal of Differential Equations, 1996, 127, 1-40.	2.2	33
171	Asymptotic Behaviour and Self-Similarity for the Three Dimensional Vlasovâ€"Poissonâ€"Fokkerâ€"Planck System. Journal of Functional Analysis, 1996, 141, 99-132.	1.4	46
172	TheN-Laplacian Elliptic Equation: Variational versus Entropy Solutions. Journal of Mathematical Analysis and Applications, 1996, 201, 671-688.	1.0	10
173	The regularity of solutions of reaction-diffusion equations via Lagrangian coordinates. Nonlinear Differential Equations and Applications, 1996, 3, 465-497.	0.8	53
174	Maximal viscosity solutions of the modified porous medium equation and their asymptotic behaviour. European Journal of Applied Mathematics, 1996, 7, 453-471.	2.9	5
175	A free-boundary problem for the heat equation arising in flame propagation. Transactions of the American Mathematical Society, 1995, 347, 411-441.	0.9	86
176	Non-uniqueness of solutions of nonlinear heat equations of fast diffusion type. Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire, 1995, 12, 173-200.	1.4	19
177	Asymptotic convergence to dipole solutions in nonlinear parabolic equations. Proceedings of the Royal Society of Edinburgh Section A: Mathematics, 1995, 125, 877-900.	1.2	5
178	Geometrical properties of the solutions of one-dimensional nonlinear parabolic equations. Mathematische Annalen, 1995, 303, 741-769.	1.4	51
179	On the stability or instability of the singular solution of the semilinear heat equation with exponential reaction term. Archive for Rational Mechanics and Analysis, 1995, 129, 201-224.	2.4	81
180	Necessary and sufficient conditions for complete blow-up and extinction for one-dimensional quasilinear heat equations. Archive for Rational Mechanics and Analysis, 1995, 129, 225-244.	2.4	63

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181	Persistence of corners in free boundaries in Hele-Shaw flow. European Journal of Applied Mathematics, 1995, 6, 455-490.	2.9	43
182	A Free-Boundary Problem for the Heat Equation Arising in Flame Propagation. Transactions of the American Mathematical Society, 1995, 347, 411.	0.9	51
183	Entropy solutions for diffusion-convection equations with partial diffusivity. Transactions of the American Mathematical Society, 1994, 343, 829-842.	0.9	36
184	Asymptotic behaviour for an equation of superslow diffusion. The Cauchy problem. Asymptotic Analysis, 1994, 8, 145-159.	0.5	2
185	Extinction for a quasilinear heat equation with absorption ii. a dynamical systems approach. Communications in Partial Differential Equations, 1994, 19, 1107-1137.	2.2	35
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