

Xu-Jia Wang

List of Publications by Year in descending order

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86
papers

3,777
citations

117625

34
h-index

128289

60
g-index

86
all docs

86
docs citations

86
times ranked

712
citing authors

#	ARTICLE	IF	CITATIONS
1	$\int_{\Omega} \nabla u ^p dx$ xmins:xocs="http://www.elsevier.com/xml/xocs/dtd" xmins:xs="http://www.w3.org/2001/XMLSchema" xmins:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:tbl_struct="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:tbl_info="http://www.elsevier.com/xml/common/struct-bib/dtd" data-bbox="82 68 782 138"/>	1.1	237
2	Regularity of Potential Functions of the Optimal Transportation Problem. Archive for Rational Mechanics and Analysis, 2005, 177, 151-183.	2.4	236
3	Kähler-Ricci solitons on toric manifolds with positive first Chern class. Advances in Mathematics, 2004, 188, 87-103.	1.1	199
4	Neumann problems of semilinear elliptic equations involving critical Sobolev exponents. Journal of Differential Equations, 1991, 93, 283-310.	2.2	195
5	Hessian Measures II. Annals of Mathematics, 1999, 150, 579.	4.2	162
6	A variational theory of the Hessian equation. Communications on Pure and Applied Mathematics, 2001, 54, 1029-1064.	3.1	158
7	On the weak continuity of elliptic operators and applications to potential theory. American Journal of Mathematics, 2002, 124, 369-410.	1.1	140
8	Title is missing!. Indiana University Mathematics Journal, 1994, 43, 25.	0.9	139
9	The Bernstein problem for affine maximal hypersurfaces. Inventiones Mathematicae, 2000, 140, 399-422.	2.5	119
10	Convex solutions to the mean curvature flow. Annals of Mathematics, 2011, 173, 1185-1239.	4.2	109
11	On the design of a reflector antenna. Inverse Problems, 1996, 12, 351-375.	2.0	97
12	Hessian measures I. Topological Methods in Nonlinear Analysis, 1997, 10, 225.	0.2	97
13	On the design of a reflector antenna II. Calculus of Variations and Partial Differential Equations, 2004, 20, 329-341.	1.7	92
14	Boundary regularity for the Monge-Ampère and affine maximal surface equations. Annals of Mathematics, 2008, 167, 993-1028.	4.2	90
15	On the Monge mass transfer problem. Calculus of Variations and Partial Differential Equations, 2001, 13, 19-31.	1.7	82
16	The Yamabe problem for higher order curvatures. Journal of Differential Geometry, 2007, 77, 515.	1.1	80
17	Rotationally symmetric solutions to the p -Laplace problem. Journal of Differential Equations, 2013, 254, 983-1005.	2.2	76
18	The affine Plateau problem. Journal of the American Mathematical Society, 2005, 18, 253-289.	3.9	67

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19	Hessian Measures III. <i>Journal of Functional Analysis</i> , 2002, 193, 1-23.	1.4	66
20	The k -Hessian Equation. <i>Lecture Notes in Mathematics</i> , 2009, , 177-252.	0.2	62
21	Nonuniqueness of solutions to the λ -Hessian problem. <i>Advances in Mathematics</i> , 2015, 281, 845-856.	1.1	61
22	A logarithmic Gauss curvature flow and the Minkowski problem. <i>Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire</i> , 2000, 17, 733-751.	1.4	60
23	Flow by Gauss curvature to the Aleksandrov and dual Minkowski problems. <i>Journal of the European Mathematical Society</i> , 2019, 22, 893-923.	1.4	58
24	On a Monge-Ampère equation arising in geometric optics. <i>Journal of Differential Geometry</i> , 1998, 48, 205.	1.1	55
25	On Strict Convexity and Continuous Differentiability of Potential Functions in Optimal Transportation. <i>Archive for Rational Mechanics and Analysis</i> , 2009, 192, 403-418.	2.4	51
26	On the dirichlet problem for degenerate Monge-Ampère equations. <i>Acta Mathematica</i> , 1999, 182, 87-104.	3.9	50
27	Interior gradient estimates for mean curvature equations. <i>Mathematische Zeitschrift</i> , 1998, 228, 73-81.	0.9	47
28	Interior $C^{2,\alpha}$ Regularity for Potential Functions in Optimal Transportation. <i>Communications in Partial Differential Equations</i> , 2009, 35, 165-184.	2.2	46
29	The Dirichlet Problem for Degenerate Hessian Equations. <i>Communications in Partial Differential Equations</i> , 2005, 29, 219-235.	2.2	42
30	Bernstein theorem and regularity for a class of Monge-Ampère equations. <i>Journal of Differential Geometry</i> , 2013, 93, .	1.1	41
31	Affine complete locally convex hypersurfaces. <i>Inventiones Mathematicae</i> , 2002, 150, 45-60.	2.5	40
32	Schauder Estimates for Elliptic and Parabolic Equations*. <i>Chinese Annals of Mathematics Series B</i> , 2006, 27, 637-642.	0.4	40
33	Continuity Estimates for the Monge-Ampère Equation. <i>SIAM Journal on Mathematical Analysis</i> , 2007, 39, 608-626.	1.9	36
34	A priori Estimates and Existence for a Class of Fully Nonlinear Elliptic Equations in Conformal Geometry*. <i>Chinese Annals of Mathematics Series B</i> , 2006, 27, 169-178.	0.4	35
35	Some Counterexamples to the Regularity of Monge-Ampere Equations. <i>Proceedings of the American Mathematical Society</i> , 1995, 123, 841.	0.8	34
36	Sharp constant in a Sobolev inequality. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 1993, 20, 261-268.	1.1	31

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37	Interior curvature bounds for a class of curvature equations. <i>Duke Mathematical Journal</i> , 2004, 123, 235.	1.5	31
38	On the reflector shape design. <i>Journal of Differential Geometry</i> , 2010, 84, .	1.1	31
39	A Poincaré type inequality for Hessian integrals. <i>Calculus of Variations and Partial Differential Equations</i> , 1998, 6, 315-328.	1.7	30
40	On Harnack inequalities and singularities of admissible metrics in the Yamabe problem. <i>Calculus of Variations and Partial Differential Equations</i> , 2009, 35, 317-338.	1.7	24
41	Moser's Trudinger type inequalities for the Hessian equation. <i>Journal of Functional Analysis</i> , 2010, 259, 1974-2002.	1.4	23
42	REGULARITY FOR MONGE-AMPERE EQUATION NEAR THE BOUNDARY. <i>Analysis (Germany)</i> , 1996, 16, 101-108.	0.4	22
43	Quasilinear elliptic equations with signed measure. <i>Discrete and Continuous Dynamical Systems</i> , 2008, 23, 477-494.	0.9	22
44	Global smoothness for a singular Monge-Ampère equation. <i>Journal of Differential Equations</i> , 2017, 263, 7250-7262.	2.2	21
45	Multiple solutions of the L_p -Minkowski problem. <i>Calculus of Variations and Partial Differential Equations</i> , 2016, 55, 1.	1.7	20
46	Existence of multiple solutions to the equations of Monge-Ampère type. <i>Journal of Differential Equations</i> , 1992, 100, 95-118.	2.2	19
47	A Class of Sobolev Type Inequalities. <i>Methods and Applications of Analysis</i> , 2008, 15, 263-276.	0.5	18
48	A priori estimates and existence of solutions to the prescribed centroaffine curvature problem. <i>Journal of Functional Analysis</i> , 2018, 274, 826-862.	1.4	17
49	Existence of Multiple Solutions to Nonlinear Elliptic Equations of Nondivergence Form. <i>Journal of Mathematical Analysis and Applications</i> , 1995, 189, 617-630.	1.0	16
50	On locally convex hypersurfaces with boundary. <i>Journal Fur Die Reine Und Angewandte Mathematik</i> , 2002, 2002, .	0.9	16
51	Optimal boundary regularity for nonlinear singular elliptic equations. <i>Advances in Mathematics</i> , 2014, 251, 111-126.	1.1	16
52	Entire solutions of the Monge-Ampère equation. <i>Communications on Pure and Applied Mathematics</i> , 1996, 49, 529-539.	3.1	15
53	On the existence and nonexistence of extremal metrics on toric Kähler surfaces. <i>Advances in Mathematics</i> , 2011, 226, 4429-4455.	1.1	15
54	A Priori Estimates for Fully Nonlinear Parabolic Equations. <i>International Mathematics Research Notices</i> , 2013, 2013, 3857-3877.	1.0	15

#	ARTICLE	IF	CITATIONS
55	Existence of convex hypersurfaces with prescribed Gauss-Kronecker curvature. Transactions of the American Mathematical Society, 1996, 348, 4501-4524.	0.9	15
56	The Intermediate Case of the Yamabe Problem for Higher Order Curvatures. International Mathematics Research Notices, 2009, , .	1.0	12
57	Regularity in Monge's mass transfer problem. Journal Des Mathematiques Pures Et Appliquees, 2014, 102, 1015-1040.	1.6	12
58	Existence and Blow-Up of Solutions to Two-Phase Nonequilibrium Problems. SIAM Journal on Mathematical Analysis, 1996, 27, 1038-1048.	1.9	10
59	Partial regularity for elliptic equations. Discrete and Continuous Dynamical Systems, 2010, 28, 899-913.	0.9	10
60	Convex Hypersurfaces of Prescribed Weingarten Curvatures. Communications in Analysis and Geometry, 2004, 12, 213-232.	0.4	10
61	Existence of entire solutions to the Monge-Ampère equation. American Journal of Mathematics, 2014, 136, 1093-1106.	1.1	9
62	Convergence Rate Estimates for Aleksandrov's Solution to the Monge-Ampère Equation. SIAM Journal on Numerical Analysis, 2019, 57, 173-191.	2.3	8
63	Asymptotic Convergence for a Class of Fully Nonlinear Curvature Flows. Journal of Geometric Analysis, 2020, 30, 834-860.	1.0	8
64	Minkowski problem for complete noncompact convex hypersurfaces. Topological Methods in Nonlinear Analysis, 1995, 6, 151.	0.2	8
65	Enclosed convex hypersurfaces with maximal affine area. Mathematische Zeitschrift, 2006, 252, 497-510.	0.9	7
66	Strict convexity and regularity of potential functions in optimal transportation under condition A3w. Journal of Differential Equations, 2016, 260, 1954-1974.	2.2	7
67	Regularity of the homogeneous Monge-Ampère equation. Discrete and Continuous Dynamical Systems, 2015, 35, 6069-6084.	0.9	7
68	Convexity of the support of the displacement interpolation: Counterexamples. Applied Mathematics Letters, 2016, 58, 152-158.	2.7	6
69	Critical exponent in a Stefan problem with kinetic condition. European Journal of Applied Mathematics, 1997, 8, 525-532.	2.9	5
70	Regularity and analyticity of solutions in a direction for elliptic equations. Pacific Journal of Mathematics, 2015, 276, 419-436.	0.5	5
71	On Asymptotic Behaviour and $W^{2,p}$ Regularity of Potentials in Optimal Transportation. Archive for Rational Mechanics and Analysis, 2015, 215, 867-905.	2.4	5
72	Moser-Trudinger inequality for the complex Monge-Ampère equation. Journal of Functional Analysis, 2020, 279, 108765.	1.4	5

#	ARTICLE	IF	CITATIONS
73	Global regularity for the Monge-Ampère equation with natural boundary condition. <i>Annals of Mathematics</i> , 2021, 194, .	4.2	5
74	Interior a priori estimates for the Monge-Ampère equation. <i>Journal of Differential Geometry</i> , 2014, 19, 151-177.	1.0	4
75	A Priori Estimate for the Complex Monge-Ampère Equation. <i>Peking Mathematical Journal</i> , 2021, 4, 143-157.	1.2	3
76	On the generalized Stepanov theorem. <i>Proceedings of the American Mathematical Society</i> , 1997, 125, 2347-2352.	0.8	2
77	The mean curvature measure. <i>Journal of the European Mathematical Society</i> , 2012, 14, 779-800.	1.4	2
78	Global regularity of optimal mappings in non-convex domains. <i>Science China Mathematics</i> , 2019, 62, 2057-2072.	1.7	2
79	The Christoffel problem by the fundamental solution of the Laplace equation. <i>Science China Mathematics</i> , 2021, 64, 1599-1612.	1.7	2
80	A boundary expansion of solutions to nonlinear singular elliptic equations. <i>Science China Mathematics</i> , 0, , 1.	1.7	2
81	Entire solutions of the Monge-Ampère equation. <i>Communications on Pure and Applied Mathematics</i> , 1996, 49, 529-539.	3.1	2
82	A potential theory for the k-curvature equation. <i>Advances in Mathematics</i> , 2016, 288, 791-824.	1.1	1
83	New proof for the regularity of Monge-Ampère type equations. <i>Journal of Differential Geometry</i> , 2020, 116, .	1.1	1
84	Global $C^{1,\alpha}$ Regularity for Monge-Ampère Equation and Convex Envelope. <i>Archive for Rational Mechanics and Analysis</i> , 2022, 244, 127-155.	2.4	1
85	Continuity for the Monge Mass Transfer Problem in Two Dimensions. <i>Archive for Rational Mechanics and Analysis</i> , 2019, 231, 1045-1071.	2.4	0
86	On the four-vertex theorem for curves on locally convex surfaces. <i>Mathematical Research Letters</i> , 2020, 27, 1261-1279.	0.5	0