

# Xu-Jia Wang

## List of Publications by Year in descending order

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86  
papers

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citations

117625

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128289

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g-index

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all docs

86  
docs citations

86  
times ranked

712  
citing authors

#	ARTICLE	IF	CITATIONS
1	Global $C^{1,\alpha}$ Regularity for Monge-Ampère Equation and Convex Envelope. Archive for Rational Mechanics and Analysis, 2022, 244, 127-155.	2.4	1
2	The Christoffel problem by the fundamental solution of the Laplace equation. Science China Mathematics, 2021, 64, 1599-1612.	1.7	2
3	A Priori Estimate for the Complex Monge-Ampère Equation. Peking Mathematical Journal, 2021, 4, 143-157.	1.2	3
4	Global regularity for the Monge-Ampère equation with natural boundary condition. Annals of Mathematics, 2021, 194, .	4.2	5
5	Asymptotic Convergence for a Class of Fully Nonlinear Curvature Flows. Journal of Geometric Analysis, 2020, 30, 834-860.	1.0	8
6	Moser-Trudinger inequality for the complex Monge-Ampère equation. Journal of Functional Analysis, 2020, 279, 108765.	1.4	5
7	New proof for the regularity of Monge-Ampère type equations. Journal of Differential Geometry, 2020, 116, .	1.1	1
8	On the four-vertex theorem for curves on locally convex surfaces. Mathematical Research Letters, 2020, 27, 1261-1279.	0.5	0
9	Continuity for the Monge Mass Transfer Problem in Two Dimensions. Archive for Rational Mechanics and Analysis, 2019, 231, 1045-1071.	2.4	0
10	Global regularity of optimal mappings in non-convex domains. Science China Mathematics, 2019, 62, 2057-2072.	1.7	2
11	Convergence Rate Estimates for Aleksandrov's Solution to the Monge-Ampère Equation. SIAM Journal on Numerical Analysis, 2019, 57, 173-191.	2.3	8
12	Flow by Gauss curvature to the Aleksandrov and dual Minkowski problems. Journal of the European Mathematical Society, 2019, 22, 893-923.	1.4	58
13	A priori estimates and existence of solutions to the prescribed centroaffine curvature problem. Journal of Functional Analysis, 2018, 274, 826-862.	1.4	17
14	Global smoothness for a singular Monge-Ampère equation. Journal of Differential Equations, 2017, 263, 7250-7262.	2.2	21
15	Multiple solutions of the $L_p$ -Minkowski problem. Calculus of Variations and Partial Differential Equations, 2016, 55, 1.	1.7	20
16	Convexity of the support of the displacement interpolation: Counterexamples. Applied Mathematics Letters, 2016, 58, 152-158.	2.7	6
17	A potential theory for the $k$ -curvature equation. Advances in Mathematics, 2016, 288, 791-824.	1.1	1
18	Strict convexity and regularity of potential functions in optimal transportation under condition $A_3^w$ . Journal of Differential Equations, 2016, 260, 1954-1974.	2.2	7

#	ARTICLE	IF	CITATIONS
19	Regularity and analyticity of solutions in a direction for elliptic equations. Pacific Journal of Mathematics, 2015, 276, 419-436.	0.5	5
20	Nonuniqueness of solutions to the $L$ -problem. Advances in Mathematics, 2015, 281, 845-856.	1.1	61
21	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
22	Regularity of the homogeneous Monge-Ampère equation. Discrete and Continuous Dynamical Systems, 2015, 35, 6069-6084.	0.9	7
23	Existence of entire solutions to the Monge-Ampère equation. American Journal of Mathematics, 2014, 136, 1093-1106.	1.1	9
24	Regularity in Monge's mass transfer problem. Journal Des Mathematiques Pures Et Appliquees, 2014, 102, 1015-1040.	1.6	12
25	Optimal boundary regularity for nonlinear singular elliptic equations. Advances in Mathematics, 2014, 251, 111-126.	1.1	16
26	Interior a priori estimates for the Monge-Ampère equation. Journal of Differential Geometry, 2014, 19, 151-177.	1.0	4
27	Rotationally symmetric solutions to the $L$ -problem. Journal of Differential Equations, 2013, 254, 983-1005.	2.2	76
28	A Priori Estimates for Fully Nonlinear Parabolic Equations. International Mathematics Research Notices, 2013, 2013, 3857-3877.	1.0	15
29	Bernstein theorem and regularity for a class of Monge-Ampère equations. Journal of Differential Geometry, 2013, 93, .	1.1	41
30	The mean curvature measure. Journal of the European Mathematical Society, 2012, 14, 779-800.	1.4	2
31	Convex solutions to the mean curvature flow. Annals of Mathematics, 2011, 173, 1185-1239.	4.2	109
32	On the existence and nonexistence of extremal metrics on toric Kähler surfaces. Advances in Mathematics, 2011, 226, 4429-4455.	1.1	15
33	Moser's Trudinger type inequalities for the Hessian equation. Journal of Functional Analysis, 2010, 259, 1974-2002.	1.4	23
34	Partial regularity for elliptic equations. Discrete and Continuous Dynamical Systems, 2010, 28, 899-913.	0.9	10
35	On the reflector shape design. Journal of Differential Geometry, 2010, 84, .	1.1	31
36	The Intermediate Case of the Yamabe Problem for Higher Order Curvatures. International Mathematics Research Notices, 2009, , .	1.0	12

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37	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
38	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
39	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
40	The $k$ -Hessian Equation. <i>Lecture Notes in Mathematics</i> , 2009, , 177-252.	0.2	62
41	Quasilinear elliptic equations with signed measure. <i>Discrete and Continuous Dynamical Systems</i> , 2008, 23, 477-494.	0.9	22
42	Boundary regularity for the Monge-Ampère and affine maximal surface equations. <i>Annals of Mathematics</i> , 2008, 167, 993-1028.	4.2	90
43	A Class of Sobolev Type Inequalities. <i>Methods and Applications of Analysis</i> , 2008, 15, 263-276.	0.5	18
44	The Yamabe problem for higher order curvatures. <i>Journal of Differential Geometry</i> , 2007, 77, 515.	1.1	80
45	Continuity Estimates for the Monge-Ampère Equation. <i>SIAM Journal on Mathematical Analysis</i> , 2007, 39, 608-626.	1.9	36
46	The $\langle \mathbb{m}:\mathbb{m} \text{ altimg}="si1.gif" \text{ display}="inline" \text{ overflow}="scroll" \text{ xmlns:xocs}="http://www.elsevier.com/xml/xocs/dtd" \text{ xmlns:xs}="http://www.w3.org/2001/XMLSchema" \text{ xmlns:xsi}="http://www.w3.org/2001/XMLSchema-instance" \text{ xmlns}="http://www.elsevier.com/xml/ja/dtd" \text{ xmlns:ja}="http://www.elsevier.com/xml/ja/dtd" \text{ xmlns:mml}="http://www.w3.org/1998/Math/MathML" \text{ xmlns:tb}="http://www.elsevier.com/xml/common/table/dtd" \text{ xmlns:sb}="http://www.elsevier.com/xml/common/struct-bib/dtd" \text{ xmlns:ce}="http://www.elsevier.com/x} \rangle$	1.1	237
47	Enclosed convex hypersurfaces with maximal affine area. <i>Mathematische Zeitschrift</i> , 2006, 252, 497-510.	0.9	7
48	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
49	Schauder Estimates for Elliptic and Parabolic Equations*. <i>Chinese Annals of Mathematics Series B</i> , 2006, 27, 637-642.	0.4	40
50	The affine Plateau problem. <i>Journal of the American Mathematical Society</i> , 2005, 18, 253-289.	3.9	67
51	Regularity of Potential Functions of the Optimal Transportation Problem. <i>Archive for Rational Mechanics and Analysis</i> , 2005, 177, 151-183.	2.4	236
52	The Dirichlet Problem for Degenerate Hessian Equations. <i>Communications in Partial Differential Equations</i> , 2005, 29, 219-235.	2.2	42
53	On the design of a reflector antenna II. <i>Calculus of Variations and Partial Differential Equations</i> , 2004, 20, 329-341.	1.7	92
54	Kähler-Ricci solitons on toric manifolds with positive first Chern class. <i>Advances in Mathematics</i> , 2004, 188, 87-103.	1.1	199

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55	Interior curvature bounds for a class of curvature equations. <i>Duke Mathematical Journal</i> , 2004, 123, 235.	1.5	31
56	Convex Hypersurfaces of Prescribed Weingarten Curvatures. <i>Communications in Analysis and Geometry</i> , 2004, 12, 213-232.	0.4	10
57	On locally convex hypersurfaces with boundary. <i>Journal Fur Die Reine Und Angewandte Mathematik</i> , 2002, 2002, .	0.9	16
58	On the weak continuity of elliptic operators and applications to potential theory. <i>American Journal of Mathematics</i> , 2002, 124, 369-410.	1.1	140
59	Hessian Measures III. <i>Journal of Functional Analysis</i> , 2002, 193, 1-23.	1.4	66
60	Affine complete locally convex hypersurfaces. <i>Inventiones Mathematicae</i> , 2002, 150, 45-60.	2.5	40
61	On the Monge mass transfer problem. <i>Calculus of Variations and Partial Differential Equations</i> , 2001, 13, 19-31.	1.7	82
62	A variational theory of the Hessian equation. <i>Communications on Pure and Applied Mathematics</i> , 2001, 54, 1029-1064.	3.1	158
63	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
64	The Bernstein problem for affine maximal hypersurfaces. <i>Inventiones Mathematicae</i> , 2000, 140, 399-422.	2.5	119
65	Hessian Measures II. <i>Annals of Mathematics</i> , 1999, 150, 579.	4.2	162
66	On the dirichlet problem for degenerate Monge-Ampère equations. <i>Acta Mathematica</i> , 1999, 182, 87-104.	3.9	50
67	A Poincaré type inequality for Hessian integrals. <i>Calculus of Variations and Partial Differential Equations</i> , 1998, 6, 315-328.	1.7	30
68	Interior gradient estimates for mean curvature equations. <i>Mathematische Zeitschrift</i> , 1998, 228, 73-81.	0.9	47
69	On a Monge-Ampère equation arising in geometric optics. <i>Journal of Differential Geometry</i> , 1998, 48, 205.	1.1	55
70	Critical exponent in a Stefan problem with kinetic condition. <i>European Journal of Applied Mathematics</i> , 1997, 8, 525-532.	2.9	5
71	On the generalized Stepanov theorem. <i>Proceedings of the American Mathematical Society</i> , 1997, 125, 2347-2352.	0.8	2
72	Hessian measures I. <i>Topological Methods in Nonlinear Analysis</i> , 1997, 10, 225.	0.2	97

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73	Entire solutions of the Monge-Ampère equation. Communications on Pure and Applied Mathematics, 1996, 49, 529-539.	3.1	15
74	REGULARITY FOR MONGE-AMPERE EQUATION NEAR THE BOUNDARY. Analysis (Germany), 1996, 16, 101-108.	0.4	22
75	Existence and Blow-Up of Solutions to Two-Phase Nonequilibrium Problems. SIAM Journal on Mathematical Analysis, 1996, 27, 1038-1048.	1.9	10
76	On the design of a reflector antenna. Inverse Problems, 1996, 12, 351-375.	2.0	97
77	Entire solutions of the Monge-Ampère equation. Communications on Pure and Applied Mathematics, 1996, 49, 529-539.	3.1	2
78	Existence of convex hypersurfaces with prescribed Gauss-Kronecker curvature. Transactions of the American Mathematical Society, 1996, 348, 4501-4524.	0.9	15
79	Existence of Multiple Solutions to Nonlinear Elliptic Equations of Nondivergence Form. Journal of Mathematical Analysis and Applications, 1995, 189, 617-630.	1.0	16
80	Some Counterexamples to the Regularity of Monge-Ampere Equations. Proceedings of the American Mathematical Society, 1995, 123, 841.	0.8	34
81	Minkowski problem for complete noncompact convex hypersurfaces. Topological Methods in Nonlinear Analysis, 1995, 6, 151.	0.2	8
82	Title is missing!. Indiana University Mathematics Journal, 1994, 43, 25.	0.9	139
83	Sharp constant in a Sobolev inequality. Nonlinear Analysis: Theory, Methods & Applications, 1993, 20, 261-268.	1.1	31
84	Existence of multiple solutions to the equations of Monge-Ampère type. Journal of Differential Equations, 1992, 100, 95-118.	2.2	19
85	Neumann problems of semilinear elliptic equations involving critical Sobolev exponents. Journal of Differential Equations, 1991, 93, 283-310.	2.2	195
86	A boundary expansion of solutions to nonlinear singular elliptic equations. Science China Mathematics, 0, , 1.	1.7	2