

Xu-Jia Wang

List of Publications by Year in descending order

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86
papers

3,777
citations

117619

34
h-index

128286

60
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86
all docs

86
docs citations

86
times ranked

712
citing authors

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