

# Neil S Trudinger

## List of Publications by Year in descending order

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91  
papers

15,182  
citations

116194

36  
h-index

51423

90  
g-index

95  
all docs

95  
docs citations

95  
times ranked

4421  
citing authors

#	ARTICLE	IF	CITATIONS
1	On the local theory of prescribed Jacobian equations revisited. Mathematics in Engineering, 2021, 3, 1-17.	0.5	6
2	On the Dirichlet problem for general augmented Hessian equations. Journal of Differential Equations, 2020, 269, 5204-5227.	1.1	13
3	Oblique boundary value problems for augmented Hessian equations III. Communications in Partial Differential Equations, 2019, 44, 708-748.	1.0	13
4	Oblique boundary value problems for augmented Hessian equations I. Bulletin of Mathematical Sciences, 2018, 8, 353-411.	0.5	24
5	On the Second Boundary Value Problem for Monge-Ampère Type Equations and Geometric Optics. Archive for Rational Mechanics and Analysis, 2018, 229, 547-567.	1.1	20
6	Oblique boundary value problems for augmented Hessian equations II. Nonlinear Analysis: Theory, Methods & Applications, 2017, 154, 148-173.	0.6	34
7	Maximum Principles for Difference Operators. , 2017, , 209-218.		2
8	On the Neumann Problem for Monge-Ampère Type Equations. Canadian Journal of Mathematics, 2016, 68, 1334-1361.	0.3	7
9	On the Dirichlet problem for a class of augmented Hessian equations. Journal of Differential Equations, 2015, 258, 1548-1576.	1.1	21
10	On Asymptotic Behaviour and $W^{2,p}$ Regularity of Potentials in Optimal Transportation. Archive for Rational Mechanics and Analysis, 2015, 215, 867-905.	1.1	5
11	On Pogorelov estimates in optimal transportation and geometric optics. Bulletin of Mathematical Sciences, 2014, 4, 407-431.	0.5	27
12	WEAK CONTINUITY OF THE COMPLEX -HESSIAN OPERATORS WITH RESPECT TO LOCAL UNIFORM CONVERGENCE. Bulletin of the Australian Mathematical Society, 2014, 89, 227-233.	0.3	1
13	On the Dirichlet problem for Monge-Ampère type equations. Calculus of Variations and Partial Differential Equations, 2014, 49, 1223-1236.	0.9	31
14	On the local theory of prescribed Jacobian equations. Discrete and Continuous Dynamical Systems, 2014, 34, 1663-1681.	0.5	36
15	A note on global regularity in optimal transportation. Bulletin of Mathematical Sciences, 2013, 3, 551-557.	0.5	6
16	Hessian measures on the Heisenberg group. Journal of Functional Analysis, 2013, 264, 2335-2355.	0.7	5
17	On Pogorelov estimates for Monge-Ampère type equations. Discrete and Continuous Dynamical Systems, 2010, 28, 1121-1135.	0.5	20
18	A Form of Alexandrov-Fenchel Inequality. Pure and Applied Mathematics Quarterly, 2010, 6, 999-1012.	0.2	15

#	ARTICLE	IF	CITATIONS
19	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.	0.9	24
20	On Strict Convexity and Continuous Differentiability of Potential Functions in Optimal Transportation. <i>Archive for Rational Mechanics and Analysis</i> , 2009, 192, 403-418.	1.1	51
21	Interior $C^{2,\alpha}$ Regularity for Potential Functions in Optimal Transportation. <i>Communications in Partial Differential Equations</i> , 2009, 35, 165-184.	1.0	46
22	On the second boundary value problem for Monge-Ampère type equations and optimal transportation. <i>Annali Della Scuola Normale Superiore Di Pisa Classe Di Scienze</i> , 2009, , 143-174.	0.1	36
23	On the Krylov maximum principle for discrete parabolic schemes. <i>Tamkang Journal of Mathematics</i> , 2009, 40, 437-450.	0.3	1
24	On the maximum principle for linear parabolic equations. <i>Journal of Global Optimization</i> , 2008, 40, 495-500.	1.1	0
25	The Yamabe problem for higher order curvatures. <i>Journal of Differential Geometry</i> , 2007, 77, 515.	0.5	80
26	Enclosed convex hypersurfaces with maximal affine area. <i>Mathematische Zeitschrift</i> , 2006, 252, 497-510.	0.4	7
27	On Hessian Measures for Non-Commuting Vector Fields. <i>Pure and Applied Mathematics Quarterly</i> , 2006, 2, 147-161.	0.2	6
28	An Aleksandrov type theorem for $k$ -convex functions. <i>Bulletin of the Australian Mathematical Society</i> , 2005, 71, 305-314.	0.3	1
29	The affine Plateau problem. <i>Journal of the American Mathematical Society</i> , 2005, 18, 253-289.	1.9	67
30	Regularity of Potential Functions of the Optimal Transportation Problem. <i>Archive for Rational Mechanics and Analysis</i> , 2005, 177, 151-183.	1.1	236
31	Convex Hypersurfaces of Prescribed Weingarten Curvatures. <i>Communications in Analysis and Geometry</i> , 2004, 12, 213-232.	0.2	10
32	On the affine diameter of closed convex hypersurfaces. <i>Bulletin of the Australian Mathematical Society</i> , 2003, 68, 431-437.	0.3	1
33	On locally convex hypersurfaces with boundary. <i>Journal Fur Die Reine Und Angewandte Mathematik</i> , 2002, 2002, .	0.4	16
34	Schauder estimates for fully nonlinear elliptic difference operators. <i>Proceedings of the Royal Society of Edinburgh Section A: Mathematics</i> , 2002, 132, 1395-1406.	0.8	3
35	On the weak continuity of elliptic operators and applications to potential theory. <i>American Journal of Mathematics</i> , 2002, 124, 369-410.	0.5	140
36	Hessian Measures III. <i>Journal of Functional Analysis</i> , 2002, 193, 1-23.	0.7	66

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37	Affine complete locally convex hypersurfaces. <i>Inventiones Mathematicae</i> , 2002, 150, 45-60.	1.3	40
38	On the Monge mass transfer problem. <i>Calculus of Variations and Partial Differential Equations</i> , 2001, 13, 19-31.	0.9	82
39	Elliptic Partial Differential Equations of Second Order. <i>Classics in Mathematics</i> , 2001, , .	0.2	9,235
40	The Bernstein problem for affine maximal hypersurfaces. <i>Inventiones Mathematicae</i> , 2000, 140, 399-422.	1.3	119
41	A NOTE ON THE DISCRETE ALEKSANDROV-BAKELMAN MAXIMUM PRINCIPLE. <i>Taiwanese Journal of Mathematics</i> , 2000, 4, .	0.2	10
42	Hessian Measures II. <i>Annals of Mathematics</i> , 1999, 150, 579.	2.1	162
43	On the dirichlet problem for degenerate Monge-Ampère equations. <i>Acta Mathematica</i> , 1999, 182, 87-104.	1.4	50
44	A Poincaré type inequality for Hessian integrals. <i>Calculus of Variations and Partial Differential Equations</i> , 1998, 6, 315-328.	0.9	30
45	Evolving monotone difference operators on general space-time meshes. <i>Duke Mathematical Journal</i> , 1998, 91, 587.	0.8	15
46	Hessian measures I. <i>Topological Methods in Nonlinear Analysis</i> , 1997, 10, 225.	0.2	97
47	Positive difference operators on general meshes. <i>Duke Mathematical Journal</i> , 1996, 83, 415.	0.8	23
48	Local Estimates for Parabolic Difference Operators. <i>Journal of Differential Equations</i> , 1995, 122, 398-413.	1.1	10
49	On the Dirichlet problem for Hessian equations. <i>Acta Mathematica</i> , 1995, 175, 151-164.	1.4	209
50	Quasilinear second order elliptic equations with Venttsel boundary conditions. <i>Potential Analysis</i> , 1994, 3, 219-243.	0.4	7
51	On some inequalities for elementary symmetric functions. <i>Bulletin of the Australian Mathematical Society</i> , 1994, 50, 317-326.	0.3	80
52	Isoperimetric inequalities for quermassintegrals. <i>Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire</i> , 1994, 11, 411-425.	0.7	65
53	The Dirichlet problem for the prescribed curvature quotient equations. <i>Topological Methods in Nonlinear Analysis</i> , 1994, 3, 307.	0.2	24
54	Discrete Methods for Fully Nonlinear Elliptic Equations. <i>SIAM Journal on Numerical Analysis</i> , 1992, 29, 123-135.	1.1	49

#	ARTICLE	IF	CITATIONS
55	Linear second order elliptic equations with Venttsel boundary conditions. Proceedings of the Royal Society of Edinburgh Section A: Mathematics, 1991, 118, 193-207.	0.8	40
56	Linear elliptic difference inequalities with random coefficients. Mathematics of Computation, 1990, 55, 37-37.	1.1	37
57	A priori bounds and necessary conditions for solvability of prescribed curvature equations. Manuscripta Mathematica, 1990, 67, 99-112.	0.3	17
58	The Dirichlet problem for the prescribed curvature equations. Archive for Rational Mechanics and Analysis, 1990, 111, 153-179.	1.1	142
59	A Priori Bounds for Graphs With Prescribed Curvature. , 1990, , 667-676.		8
60	On the twice differentiability of viscosity solutions of nonlinear elliptic equations. Bulletin of the Australian Mathematical Society, 1989, 39, 443-447.	0.3	19
61	On Regularity and Existence of Viscosity Solutions of Nonlinear Second Order, Elliptic Equations. , 1989, , 939-957.		16
62	On Regularity and Existence of Viscosity Solutions of Nonlinear Second Order, Elliptic Equations. , 1989, , 939-957.		9
63	Hölder gradient estimates for fully nonlinear elliptic equations. Proceedings of the Royal Society of Edinburgh Section A: Mathematics, 1988, 108, 57-65.	0.8	51
64	On degenerate fully nonlinear elliptic equations in balls. Bulletin of the Australian Mathematical Society, 1987, 35, 299-307.	0.3	31
65	The Neumann problem for equations of Monge-Ampère type. Communications on Pure and Applied Mathematics, 1986, 39, 539-563.	1.2	83
66	Linear oblique derivative problems for the uniformly elliptic Hamilton-Jacobi-Bellman equation. Mathematische Zeitschrift, 1986, 191, 1-15.	0.4	46
67	Nonlinear oblique boundary value problems for nonlinear elliptic equations. Transactions of the American Mathematical Society, 1986, 295, 509-546.	0.5	130
68	On an interpolation inequality and its applications to nonlinear elliptic equations. Proceedings of the American Mathematical Society, 1985, 95, 73-73.	0.4	9
69	On second derivative estimates for equations of Monge-Ampère type. Bulletin of the Australian Mathematical Society, 1984, 30, 321-334.	0.3	33
70	Harnack inequalities for quasi-minima of variational integrals. Annales De L'Institut Henri Poincaré (C) Analyse Non Linéaire, 1984, 1, 295-308.	0.7	98
71	The Dirichlet problem for the equation of prescribed Gauss curvature. Bulletin of the Australian Mathematical Society, 1983, 28, 217-231.	0.3	60
72	Fully nonlinear, uniformly elliptic equations under natural structure conditions. Transactions of the American Mathematical Society, 1983, 278, 751-769.	0.5	91

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73	Harnack inequalities for nonuniformly elliptic divergence structure equations. <i>Inventiones Mathematicae</i> , 1981, 64, 517-531.	1.3	15
74	Local estimates for subsolutions and supersolutions of general second order elliptic quasilinear equations. <i>Inventiones Mathematicae</i> , 1980, 61, 67-79.	1.3	105
75	On the first eigenvalue of non-uniformly elliptic boundary value problems. <i>Mathematische Zeitschrift</i> , 1980, 174, 227-232.	0.4	4
76	On the positivity of weak supersolutions of non-uniformly elliptic equations. <i>Bulletin of the Australian Mathematical Society</i> , 1978, 19, 321-324.	0.3	8
77	Elliptic Partial Differential Equations of Second Order. <i>Grundlehren Der Mathematischen Wissenschaften in Einzeldarstellungen Mit Besonderer Berücksichtigung Der Anwendungsgebiete</i> , 1977, , .	0.3	1,461
78	Maximum principles for linear, non-uniformly elliptic operators with measurable coefficients. <i>Mathematische Zeitschrift</i> , 1977, 156, 291-301.	0.4	39
79	On the comparison principle for quasilinear divergence structure equations. <i>Archive for Rational Mechanics and Analysis</i> , 1974, 57, 128-133.	1.1	20
80	Gradient estimates and mean curvature. <i>Mathematische Zeitschrift</i> , 1973, 131, 165-175.	0.4	30
81	A sharp inequality for subharmonic functions on two-dimensional manifolds. <i>Mathematische Zeitschrift</i> , 1973, 133, 75-79.	0.4	2
82	On the analyticity of generalized minimal surfaces. <i>Bulletin of the Australian Mathematical Society</i> , 1971, 5, 315-320.	0.3	6
83	On the regularity of generalized solutions of linear, non-uniformly elliptic equations. <i>Archive for Rational Mechanics and Analysis</i> , 1971, 42, 50-62.	1.1	81
84	Orlicz-Sobolev spaces and imbedding theorems. <i>Journal of Functional Analysis</i> , 1971, 8, 52-75.	0.7	213
85	Generalized solutions of quasilinear differential inequalities. I. Elliptic operators. <i>Bulletin of the American Mathematical Society</i> , 1971, 77, 576-579.	3.0	5
86	On the sharpness of a limiting case of the Sobolev imbedding theorem. <i>Bulletin of the Australian Mathematical Society</i> , 1970, 3, 369-373.	0.3	47
87	Lipschitz continuous solutions of elliptic equations of the form $\Delta u = 0$ . <i>Mathematische Zeitschrift</i> , 1969, 109, 211-216.	0.4	10
88	Pointwise estimates and quasilinear parabolic equations. <i>Communications on Pure and Applied Mathematics</i> , 1968, 21, 205-226.	1.2	209
89	The Dirichlet problem for nonuniformly elliptic equations. <i>Bulletin of the American Mathematical Society</i> , 1967, 73, 410-413.	3.0	7
90	On harnack type inequalities and their application to quasilinear elliptic equations. <i>Communications on Pure and Applied Mathematics</i> , 1967, 20, 721-747.	1.2	596

#	ARTICLE	IF	CITATIONS
91	On the Dirichlet problem for quasilinear uniformly elliptic equations in n variables. Archive for Rational Mechanics and Analysis, 1967, 27, 108-119.	1.1	9