

# Regularity of Potential Functions of the Optimal Transport

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Citation Report

#	ARTICLE	IF	CITATIONS
1	On the design of a reflector antenna II. Calculus of Variations and Partial Differential Equations, 2004, 20, 329-341.	0.9	92
2	Gradient estimates for potentials of invertible gradient mappings on the sphere. Calculus of Variations and Partial Differential Equations, 2006, 26, 297-311.	0.9	18
3	The Yamabe problem for higher order curvatures. Journal of Differential Geometry, 2007, 77, 515.	0.5	80
4	Degenerate Conformally Invariant Fully Nonlinear Elliptic Equations. Archive for Rational Mechanics and Analysis, 2007, 186, 25-51.	1.1	22
5	On Monge-Ampère type equations arising in optimal transportation problems. Calculus of Variations and Partial Differential Equations, 2007, 28, 275-316.	0.9	10
6	Stability of a 4th-order curvature condition arising in optimal transport theory. Journal of Functional Analysis, 2008, 255, 2683-2708.	0.7	23
7	Metric measure spaces. , 0, , 4-41.		0
8	Weak stability of Lagrangian solutions to the semigeostrophic equations. Nonlinearity, 2009, 22, 2521-2539.	0.6	10
9	Variational Heuristics for Optimal Transportation Maps on Compact Manifolds. Analysis (Germany), 2009, 29, .	0.2	1
10	Continuity of optimal transport maps and convexity of injectivity domains on small deformations of $\mathbb{R}^2$ . Communications on Pure and Applied Mathematics, 2009, 62, 1670-1706.	1.2	46
11	Hölder regularity of optimal mappings in optimal transportation. Calculus of Variations and Partial Differential Equations, 2009, 34, 435-451.	0.9	38
12	$C^1$ regularity of solutions of the Monge-Ampère equation for optimal transport in dimension two. Calculus of Variations and Partial Differential Equations, 2009, 35, 537-550.	0.9	40
13	On the regularity of solutions of optimal transportation problems. Acta Mathematica, 2009, 202, 241-283.	1.4	150
14	Ricci curvature and measures. Japanese Journal of Mathematics, 2009, 4, 27-45.	0.8	6
15	On Strict Convexity and Continuous Differentiability of Potential Functions in Optimal Transportation. Archive for Rational Mechanics and Analysis, 2009, 192, 403-418.	1.1	51
16	The Refractor Problem in Reshaping Light Beams. Archive for Rational Mechanics and Analysis, 2009, 193, 423-443.	1.1	53
17	Constructing a relativistic heat flow by transport time steps. Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire, 2009, 26, 2539-2580.	0.7	23
18	Interior $C^{2,\alpha}$ Regularity for Potential Functions in Optimal Transportation. Communications in Partial Differential Equations, 2009, 35, 165-184.	1.0	46

#	ARTICLE	IF	CITATIONS
19	Free boundaries in optimal transport and Monge-Ampère obstacle problems. <i>Annals of Mathematics</i> , 2010, 171, 673-730.	2.1	87
20	An Aleksandrov type estimate for $\{\alpha\}$ -convex functions. <i>Proceedings of the American Mathematical Society</i> , 2010, 138, 2001-2014.	0.4	1
21	Regularity of optimal transport in curved geometry: The nonfocal case. <i>Duke Mathematical Journal</i> , 2010, 151, .	0.8	42
22	The Exchange Value Embedded in a Transport System. <i>Applied Mathematics and Optimization</i> , 2010, 62, 229-252.	0.8	3
23	Optimal partition of a large labor force into working pairs. <i>Economic Theory</i> , 2010, 42, 375-395.	0.5	8
24	Hedonic price equilibria, stable matching, and optimal transport: equivalence, topology, and uniqueness. <i>Economic Theory</i> , 2010, 42, 317-354.	0.5	155
25	On the Ma-Trudinger-Wang curvature on surfaces. <i>Calculus of Variations and Partial Differential Equations</i> , 2010, 39, 307-332.	0.9	29
27	On the Second Boundary Value Problem for a Class of Modified-Hessian Equations. <i>Communications in Partial Differential Equations</i> , 2010, 35, 745-785.	1.0	6
28	Continuity, curvature, and the general covariance of optimal transportation. <i>Journal of the European Mathematical Society</i> , 2010, 12, 1009-1040.	0.7	78
29	Counterexamples to Continuity of Optimal Transport Maps on Positively Curved Riemannian Manifolds. <i>International Mathematics Research Notices</i> , 2010, , .	0.5	8
30	New Computable Necessary Conditions for the Regularity Theory of Optimal Transportation. <i>SIAM Journal on Mathematical Analysis</i> , 2010, 42, 3054-3075.	0.9	2
31	Uniqueness and Monge Solutions in the Multimarginal Optimal Transportation Problem. <i>SIAM Journal on Mathematical Analysis</i> , 2011, 43, 2758-2775.	0.9	46
32	Hölder Continuity for Optimal Multivalued Mappings. <i>SIAM Journal on Mathematical Analysis</i> , 2011, 43, 1855-1871.	0.9	6
33	Necessary and sufficient conditions for continuity of optimal transport maps on Riemannian manifolds. <i>Tohoku Mathematical Journal</i> , 2011, 63, .	0.4	28
34	When is multidimensional screening a convex program?. <i>Journal of Economic Theory</i> , 2011, 146, 454-478.	0.5	47
35	A McLean Theorem for the moduli space of Lie solutions to mass transport equations. <i>Differential Geometry and Its Applications</i> , 2011, 29, 816-825.	0.2	0
36	The Ma-Trudinger-Wang curvature for natural mechanical actions. <i>Calculus of Variations and Partial Differential Equations</i> , 2011, 41, 285-299.	0.9	9
37	On Aleksandrov-Fenchel Inequalities for $k$ -Convex Domains. <i>Milan Journal of Mathematics</i> , 2011, 79, 13-38.	0.7	25

#	ARTICLE	IF	CITATIONS
38	Regularity of Optimal Maps on the Sphere: the Quadratic Cost and the Reflector Antenna. Archive for Rational Mechanics and Analysis, 2011, 199, 269-289.	1.1	49
39	Optimal transportation, topology and uniqueness. Bulletin of Mathematical Sciences, 2011, 1, 13-32.	0.5	20
40	Tangent cut loci on surfaces. Differential Geometry and Its Applications, 2011, 29, 154-159.	0.2	7
41	Ramified optimal transportation in geodesic metric spaces. Advances in Calculus of Variations, 2011, 4, .	0.7	3
42	REGULARITY OF MONGE-AMPERE EQUATIONS IN OPTIMAL TRANSPORTATION. Bulletin of the Australian Mathematical Society, 2011, 83, 173-176.	0.3	2
43	Parabolic Optimal Transport Equations on Manifolds. International Mathematics Research Notices, 2012, 2012, 4325-4350.	0.5	6
44	Nearly Round Spheres Look Convex. American Journal of Mathematics, 2012, 134, 109-139.	0.5	39
45	A parabolic flow toward solutions of the optimal transportation problem on domains with boundary. Journal Fur Die Reine Und Angewandte Mathematik, 2012, 2012, .	0.4	8
46	Towards the smoothness of optimal maps on Riemannian submersions and Riemannian products (of Tj ETQq0 0 0 rgBT /Overlock 10 Tf	0.4	26
47	Second order variational heuristics for the Monge problem on compact manifolds. Advances in Calculus of Variations, 2012, 5, .	0.7	0
48	On optimal stationary couplings between stationary processes. Electronic Journal of Probability, 2012, 17, .	0.5	3
49	Regularity for the Optimal Transportation Problem with Euclidean Distance Squared Cost on the Embedded Sphere. SIAM Journal on Mathematical Analysis, 2012, 44, 2871-2887.	0.9	6
50	New Examples Satisfying Ma-Trudinger-Wang Conditions. SIAM Journal on Mathematical Analysis, 2012, 44, 61-73.	0.9	3
51	Convexity and multi-dimensional screening for spaces with different dimensions. Journal of Economic Theory, 2012, 147, 2399-2418.	0.5	1
52	Hölder Continuity and Injectivity of Optimal Maps. Archive for Rational Mechanics and Analysis, 2013, 209, 747-795.	1.1	34
53	Light reflection is nonlinear optimization. Calculus of Variations and Partial Differential Equations, 2013, 46, 861-878.	0.9	5
54	Inequalities for quermassintegrals on $k$ -convex domains. Advances in Mathematics, 2013, 248, 335-377.	0.5	19
55	Weak Solutions of Monge-Ampère Type Equations in Optimal Transportation. Acta Mathematica Scientia, 2013, 33, 950-962.	0.5	3

#	ARTICLE	IF	CITATIONS
56	Regularity of Optimal Transport Maps and Applications. , 2013, , .		5
57	A note on global regularity in optimal transportation. Bulletin of Mathematical Sciences, 2013, 3, 551-557.	0.5	6
58	Sobolev Regularity for Monge-Ampère Type Equations. SIAM Journal on Mathematical Analysis, 2013, 45, 1812-1824.	0.9	8
59	A Jacobian Inequality for Gradient Maps on the Sphere and Its Application to Directional Statistics. Communications in Statistics - Theory and Methods, 2013, 42, 2525-2542.	0.6	5
60	On the Regularity of Optimal Transportation Potentials on Round Spheres. Acta Applicandae Mathematicae, 2013, 123, 239-259.	0.5	1
61	Modelling and Optimisation of Flows on Networks. Lecture Notes in Mathematics, 2013, , .	0.1	29
62	Structural results on convexity relative to cost functions. Aequationes Mathematicae, 2013, 85, 119-130.	0.4	0
63	A User's Guide to Optimal Transport. Lecture Notes in Mathematics, 2013, , 1-155.	0.1	149
64	Regularity properties of optimal transportation problems arising in hedonic pricing models. ESAIM - Control, Optimisation and Calculus of Variations, 2013, 19, 668-678.	0.7	4
65	Regularity of optimal transport maps on multiple products of spheres. Journal of the European Mathematical Society, 2013, 15, 1131-1166.	0.7	21
66	Positively Curved Riemannian Locally Symmetric Spaces are Positively Squared Distance Curved. Canadian Journal of Mathematics, 2013, 65, 757-767.	0.3	5
67	On solutions to Cournot-Nash equilibria equations on the sphere. Pacific Journal of Mathematics, 2014, 272, 423-437.	0.2	1
68	On Pogorelov estimates in optimal transportation and geometric optics. Bulletin of Mathematical Sciences, 2014, 4, 407-431.	0.5	27
69	The Monge-Ampère equation and its link to optimal transportation. Bulletin of the American Mathematical Society, 2014, 51, 527-580.	0.8	81
70	On the Degeneracy of Optimal Transportation. Communications in Partial Differential Equations, 2014, 39, 1329-1363.	1.0	2
72	Regularity in Monge's mass transfer problem. Journal Des Mathematiques Pures Et Appliquees, 2014, 102, 1015-1040.	0.8	12
73	A Perturbation Argument for a Monge-Ampère Type Equation Arising in Optimal Transportation. Archive for Rational Mechanics and Analysis, 2014, 212, 359-414.	1.1	6
74	Positivity of Ma-Trudinger-Wang curvature on Riemannian surfaces. Calculus of Variations and Partial Differential Equations, 2014, 51, 495-523.	0.9	1

#	ARTICLE	IF	CITATIONS
75	An iterative scheme for solving the optimal transportation problem. <i>Calculus of Variations and Partial Differential Equations</i> , 2014, 51, 243-263.	0.9	11
76	Existence and Regularity of the Reflector Surfaces in $\mathbb{R}^{n+1}$ . <i>Archive for Rational Mechanics and Analysis</i> , 2014, 213, 833-885.	1.1	9
77	On the Dirichlet problem for Monge-Ampère type equations. <i>Calculus of Variations and Partial Differential Equations</i> , 2014, 49, 1223-1236.	0.9	31
78	Multi-marginal optimal transport: Theory and applications. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2015, 49, 1771-1790.	0.8	71
79	Representation of Markov chains by random maps: existence and regularity conditions. <i>Calculus of Variations and Partial Differential Equations</i> , 2015, 54, 2637-2655.	0.9	7
80	Boundary estimates for Monge-Ampère type equations. <i>Advances in Mathematics</i> , 2015, 281, 706-733.	0.5	7
81	Full characterization of optimal transport plans for concave costs. <i>Discrete and Continuous Dynamical Systems</i> , 2015, 35, 6113-6132.	0.5	9
82	Second order estimates for Hessian type fully nonlinear elliptic equations on Riemannian manifolds. <i>Calculus of Variations and Partial Differential Equations</i> , 2015, 54, 2693-2712.	0.9	29
83	On the Dirichlet problem for a class of augmented Hessian equations. <i>Journal of Differential Equations</i> , 2015, 258, 1548-1576.	1.1	21
84	On Semi-discrete Monge-Kantorovich and Generalized Partitions. <i>Journal of Optimization Theory and Applications</i> , 2015, 165, 359-384.	0.8	4
85	On the regularity of the free boundary in the optimal partial transport problem for general cost functions. <i>Journal of Differential Equations</i> , 2015, 258, 2618-2632.	1.1	4
86	On Asymptotic Behaviour and $W^{2,p}$ Regularity of Potentials in Optimal Transportation. <i>Archive for Rational Mechanics and Analysis</i> , 2015, 215, 867-905.	1.1	5
87	Boundary $\mu$ -regularity in optimal transportation. <i>Advances in Mathematics</i> , 2015, 273, 540-567.	0.5	7
88	Partial regularity for optimal transport maps. <i>Publications Mathématiques De L'Institut Des Hautes Etudes Scientifiques</i> , 2015, 121, 81-112.	2.2	23
89	Regularity for the near field parallel refractor and reflector problems. <i>Calculus of Variations and Partial Differential Equations</i> , 2015, 54, 917-949.	0.9	14
90	Optimal Transport for Applied Mathematicians. <i>Progress in Nonlinear Differential Equations and Their Application</i> , 2015, , .	0.4	583
91	Boundary $C^{1,\alpha}$ regularity of an optimal transport problem with cost close to $x \cdot y$ . <i>SIAM Journal on Mathematical Analysis</i> , 2015, 47, 2689-2698.	0.9	2
92	On the Convexity of Injectivity Domains on Nonfocal Manifolds. <i>SIAM Journal on Mathematical Analysis</i> , 2015, 47, 969-1000.	0.9	2

#	ARTICLE	IF	CITATIONS
93	Regularity for an obstacle problem of Hessian equations on Riemannian manifolds. Journal of Differential Equations, 2015, 258, 696-716.	1.1	4
94	On the local geometry of maps with $c$ -convex potentials. Calculus of Variations and Partial Differential Equations, 2015, 52, 345-387.	0.9	9
95	On local well-posedness of the thin-film equation via the Wasserstein gradient flow. Calculus of Variations and Partial Differential Equations, 2015, 52, 547-564.	0.9	0
96	Continuity and injectivity of optimal maps. Calculus of Variations and Partial Differential Equations, 2015, 52, 587-607.	0.9	7
97	On the Neumann Problem for Monge-Ampère Type Equations. Canadian Journal of Mathematics, 2016, 68, 1334-1361.	0.3	7
98	Optimal transport between random measures. Annales De L'institut Henri Poincare (B) Probability and Statistics, 2016, 52, .	0.7	4
99	Centroidal power diagrams with capacity constraints. ACM Transactions on Graphics, 2016, 35, 1-12.	4.9	44
100	$C_{1,\pm}$ estimates for the parallel refractor. Nonlinear Analysis: Theory, Methods & Applications, 2016, 142, 1-25.	0.6	8
101	Dynamics of optimal partial transport. Calculus of Variations and Partial Differential Equations, 2016, 55, 1.	0.9	2
102	Synthetic theory of Ricci curvature bounds. Japanese Journal of Mathematics, 2016, 11, 219-263.	0.8	16
103	Stability results on the smoothness of optimal transport maps with general costs. Journal Des Mathematiques Pures Et Appliquees, 2016, 106, 280-295.	0.8	5
104	An Inverse Problem for the Refractive Surfaces with Parallel Lighting. SIAM Journal on Mathematical Analysis, 2016, 48, 740-784.	0.9	7
105	Blaschke's rolling ball theorem and the Trudinger-Wang monotone bending. Journal of Differential Equations, 2016, 260, 6322-6332.	1.1	1
106	A characterization for solutions of the Monge-Kantorovich mass transport problem. Mathematische Annalen, 2016, 365, 1279-1304.	0.7	6
107	Strict convexity and regularity of potential functions in optimal transportation under condition $A_{3w}$ . Journal of Differential Equations, 2016, 260, 1954-1974.	1.1	7
108	On optimal partitions, individual values and cooperative games: Does a wiser agent always produce a higher value?. Mathematics and Financial Economics, 2017, 11, 85-109.	1.0	0
109	Gradient estimates for Neumann boundary value problem of Monge-Ampère type equations. Communications in Contemporary Mathematics, 2017, 19, 1650041.	0.6	5
110	An Iterated Projection Approach to Variational Problems Under Generalized Convexity Constraints. Applied Mathematics and Optimization, 2017, 76, 565-592.	0.8	2

#	ARTICLE	IF	CITATIONS
111	Wasserstein barycenters over Riemannian manifolds. <i>Advances in Mathematics</i> , 2017, 307, 640-683.	0.5	28
112	On the numerical solution of the far field refractor problem. <i>Nonlinear Analysis: Theory, Methods &amp; Applications</i> , 2017, 157, 123-145.	0.6	18
113	Existence of weak solutions to refraction problems in Negative Refractive Index Materials. <i>Nonlinear Analysis: Theory, Methods &amp; Applications</i> , 2017, 157, 76-103.	0.6	0
114	Sorting Multidimensional Types: Theory and Application. <i>Review of Economic Studies</i> , 2017, , rdw063.	2.9	15
115	Partial W2, regularity for optimal transport maps. <i>Journal of Functional Analysis</i> , 2017, 272, 4588-4605.	0.7	11
116	Pointwise Estimates and Regularity in Geometric Optics and Other Generated Jacobian Equations. <i>Communications on Pure and Applied Mathematics</i> , 2017, 70, 1146-1220.	1.2	18
117	Gradient estimates for Neumann boundary value problem of Monge-Ampère type equations on Riemannian manifolds. <i>Nonlinear Analysis: Theory, Methods &amp; Applications</i> , 2017, 150, 151-158.	0.6	1
118	Multi- to One-Dimensional Optimal Transport. <i>Communications on Pure and Applied Mathematics</i> , 2017, 70, 2405-2444.	1.2	16
119	An iterative method for generated Jacobian equations. <i>Calculus of Variations and Partial Differential Equations</i> , 2017, 56, 1.	0.9	6
120	Oblique boundary value problems for augmented Hessian equations I. <i>Bulletin of Mathematical Sciences</i> , 2018, 8, 353-411.	0.5	24
122	An Algorithm for Optimal Transport between a Simplex Soup and a Point Cloud. <i>SIAM Journal on Imaging Sciences</i> , 2018, 11, 1363-1389.	1.3	22
123	On the Second Boundary Value Problem for Monge-Ampère Type Equations and Geometric Optics. <i>Archive for Rational Mechanics and Analysis</i> , 2018, 229, 547-567.	1.1	20
124	Elliptic Solutions to Nonsymmetric Monge-Ampère Type Equations II. A Priori Estimates and the Dirichlet Problem. <i>Acta Mathematica Vietnamica</i> , 2019, 44, 723-749.	0.2	1
125	Continuity for the Monge Mass Transfer Problem in Two Dimensions. <i>Archive for Rational Mechanics and Analysis</i> , 2019, 231, 1045-1071.	1.1	0
126	On open flat sets in spaces with bipolar comparison. <i>Geometriae Dedicata</i> , 2019, 203, 347-351.	0.1	1
127	Convergence of a Newton algorithm for semi-discrete optimal transport. <i>Journal of the European Mathematical Society</i> , 2019, 21, 2603-2651.	0.7	36
128	A real-valued auction algorithm for optimal transport. <i>Statistical Analysis and Data Mining</i> , 2019, 12, 514-533.	1.4	1
129	On the Dirichlet problem for degenerate Monge-Ampère type equations. <i>Calculus of Variations and Partial Differential Equations</i> , 2019, 58, 1.	0.9	3



#	ARTICLE	IF	CITATIONS
130	Global regularity of optimal mappings in non-convex domains. Science China Mathematics, 2019, 62, 2057-2072.	0.8	2
131	On the (in)stability of the identity map in optimal transportation. Calculus of Variations and Partial Differential Equations, 2019, 58, 1.	0.9	8
132	On Concavity of the Monopolist's Problem Facing Consumers with Nonlinear Price Preferences. Communications on Pure and Applied Mathematics, 2019, 72, 1386-1423.	1.2	8
133	Free Discontinuities in Optimal Transport. Archive for Rational Mechanics and Analysis, 2019, 232, 1505-1541.	1.1	3
134	A variational formulation of the BDF2 method for metric gradient flows. ESAIM: Mathematical Modelling and Numerical Analysis, 2019, 53, 145-172.	0.8	12
135	Bipolar comparison. Geometric and Functional Analysis, 2019, 29, 258-282.	0.6	8
136	On the Gromov-Hausdorff limit of metric spaces. Mathematica Slovaca, 2019, 69, 931-938.	0.3	1
137	The boundary method for semi-discrete optimal transport partitions and Wasserstein distance computation. Journal of Computational and Applied Mathematics, 2019, 353, 318-344.	1.1	8
138	Optimal martingale transport between radially symmetric marginals in general dimensions. Stochastic Processes and Their Applications, 2020, 130, 1897-1912.	0.4	4
139	A Geometric Approach to the Transport of Discontinuous Densities. SIAM-ASA Journal on Uncertainty Quantification, 2020, 8, 1012-1035.	1.1	5
140	The Kähler geometry of certain optimal transport problems. Pure and Applied Analysis, 2020, 2, 397-426.	0.4	9
141	The Sinkhorn algorithm, parabolic optimal transport and geometric Monge-Ampère equations. Numerische Mathematik, 2020, 145, 771-836.	0.9	23
142	Optimal Transportation Between Unequal Dimensions. Archive for Rational Mechanics and Analysis, 2020, 238, 1475-1520.	1.1	5
143	Refractor surfaces determined by near-field data. Journal of Differential Equations, 2020, 269, 1278-1318.	1.1	0
144	On the Dirichlet problem for general augmented Hessian equations. Journal of Differential Equations, 2020, 269, 5204-5227.	1.1	13
145	On Neumann problem for the degenerate Monge-Ampère type equations. Boundary Value Problems, 2021, 2021, .	0.3	2
146	On the local theory of prescribed Jacobian equations revisited. Mathematics in Engineering, 2021, 3, 1-17.	0.5	6
147	Recent Developments on the MTW Tensor. Lecture Notes in Computer Science, 2021, , 515-523.	1.0	1

#	ARTICLE	IF	CITATIONS
149	A solution to the Monge transport problem for Brownian martingales. Annals of Probability, 2021, 49, .	0.8	3
150	Identification of Hedonic Equilibrium and Nonseparable Simultaneous Equations. Journal of Political Economy, 2021, 129, 842-870.	3.3	9
151	Sharp boundary $\hat{\mu}$ -regularity of optimal transport maps. Advances in Mathematics, 2021, 381, 107603.	0.5	1
152	Local Hölder regularity of solutions to generated Jacobian equations. Pure and Applied Analysis, 2021, 3, 163-188.	0.4	4
153	$C^1$ -estimates for the near field refractor. Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire, 2021, 38, 577-600.	0.7	0
154	$\mathbb{W}_\infty$ -transport with discrete target as a combinatorial matching problem. Archiv Der Mathematik, 2021, 117, 189-202.	0.3	0
155	Light Refraction is Nonlinear Optimisation. Journal of Mathematical Study, 2021, 54, 142-163.	0.6	0
156	Local pointwise second derivative estimates for strong solutions to the $\sigma_k$ -Yamabe equation on Euclidean domains. Calculus of Variations and Partial Differential Equations, 2021, 60, 1.	0.9	4
157	Regularity of optimal transport maps on locally nearly spherical manifolds. Annales De La Faculté Des Sciences De Toulouse, 2021, 30, 353-409.	0.3	0
158	Pseudo-Riemannian geometry encodes information geometry in optimal transport. Information Geometry, 0, , 1.	0.8	8
159	Variational Approach to Regularity of Optimal Transport Maps: General Cost Functions. Annals of PDE, 2021, 7, 1.	0.8	1
160	On the Numerical Solution of the Near Field Refractor Problem. Applied Mathematics and Optimization, 0, , 1.	0.8	0
161	Optimal Transport on Networks. IEEE Control Systems, 2021, 41, 70-81.	1.0	1
162	Strict convexity and $C^1$ regularity of solutions to generated Jacobian equations in dimension two. Calculus of Variations and Partial Differential Equations, 2021, 60, 1.	0.9	3
163	The Neumann Problem for Parabolic Hessian Quotient Equations. Acta Mathematica Sinica, English Series, 2021, 37, 1313-1348.	0.2	0
164	Radial solutions for fully nonlinear elliptic equations of Monge-Ampère type. Boundary Value Problems, 2021, 2021, .	0.3	1
165	Computational semi-discrete optimal transport with general storage fees. Journal of Mathematical Analysis and Applications, 2021, 503, 125287.	0.5	1
166	Hessian Curvature and Optimal Transport. Lecture Notes in Computer Science, 2019, , 423-430.	1.0	1

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167	Canonical Duality Method for Solving Kantorovich Mass Transfer Problem. <i>Advances in Mechanics and Mathematics</i> , 2017, , 105-126.	0.2	1
168	Optimal Transport and Curvature. <i>Lecture Notes in Mathematics</i> , 2011, , 171-217.	0.1	6
169	Five lectures on optimal transportation: Geometry, regularity and applications. <i>CRM Proceedings &amp; Lecture Notes</i> , 2013, , 145-180.	0.1	24
170	Second order analysis on $(\mathbb{R}^n, \langle \cdot, \cdot \rangle, \ \cdot\ )$ . <i>Memoirs of the American Mathematical Society</i> , 2012, 216, 0-0.	0.5	8
171	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
172	On Pogorelov estimates for Monge-Ampère type equations. <i>Discrete and Continuous Dynamical Systems</i> , 2010, 28, 1121-1135.	0.5	20
173	Regularity of optimal transport and cut locus: From nonsmooth analysis to geometry to smooth analysis. <i>Discrete and Continuous Dynamical Systems</i> , 2011, 30, 559-571.	0.5	12
174	A glimpse into the differential topology and geometry of optimal transport. <i>Discrete and Continuous Dynamical Systems</i> , 2014, 34, 1605-1621.	0.5	4
175	Multi-marginal optimal transport and multi-agent matching problems: Uniqueness and structure of solutions. <i>Discrete and Continuous Dynamical Systems</i> , 2014, 34, 1623-1639.	0.5	22
176	On the local theory of prescribed Jacobian equations. <i>Discrete and Continuous Dynamical Systems</i> , 2014, 34, 1663-1681.	0.5	36
177	On the classical solvability of near field reflector problems. <i>Discrete and Continuous Dynamical Systems</i> , 2015, 36, 895-916.	0.5	3
178	Rectifiability of Optimal Transportation Plans. <i>Canadian Journal of Mathematics</i> , 2012, 64, 924-934.	0.3	13
179	On the smoothness of the potential function in Riemannian optimal transport. <i>Communications in Analysis and Geometry</i> , 2015, 23, 11-89.	0.2	3
180	On the reflector shape design. <i>Journal of Differential Geometry</i> , 2010, 84, .	0.5	31
181	An Approximation Lemma about the Cut Locus, with Applications in Optimal Transport Theory. <i>Methods and Applications of Analysis</i> , 2008, 15, 149-154.	0.1	12
182	On the inverse implication of Brenier-McCann theorems and the structure of $(P(\mu, \nu), W_2(\mu, \nu))$ . <i>Methods and Applications of Analysis</i> , 2011, 18, 127-158.	0.1	32
183	Pseudo-Riemannian geometry calibrates optimal transportation. <i>Mathematical Research Letters</i> , 2010, 17, 1183-1197.	0.2	24
184	Regularity of optimal transportation between spaces with different dimensions. <i>Mathematical Research Letters</i> , 2012, 19, 291-307.	0.2	6

#	ARTICLE	IF	CITATIONS
185	Obstructions to regularity in the classical Monge problem. <i>Mathematical Research Letters</i> , 2014, 21, 697-712.	0.2	2
186	The $k$ -Yamabe problem. <i>Journal of Differential Geometry</i> , 2012, 17, 427-458.	1.0	6
187	A Newton Algorithm for Semidiscrete Optimal Transport with Storage Fees. <i>SIAM Journal on Optimization</i> , 2021, 31, 2586-2613.	1.2	1
188	Oblique derivative problems for elliptic and parabolic equations. <i>Communications on Pure and Applied Analysis</i> , 2013, 12, 2409-2444.	0.4	0
189	Numerical resolution of Euler equations through semi-discrete optimal transport. <i>Journées Équations Aux Dérivées Partielles</i> , 0, , 1-16.	0.2	1
190	Functionals on the space of probabilities. <i>Progress in Nonlinear Differential Equations and Their Application</i> , 2015, , 249-284.	0.4	0
191	Benamou-Brenier and other continuous numerical methods. <i>Progress in Nonlinear Differential Equations and Their Application</i> , 2015, , 219-248.	0.4	0
193	Optimal Transport with Discrete Mean Field Interaction. <i>MATRIX Book Series</i> , 2019, , 207-212.	0.2	0
194	Optimal transport with discrete long-range mean-field interactions. <i>Bulletin of Mathematical Sciences</i> , 2020, 10, 2050011.	0.5	0
195	Convergence Rates for Discretized Monge-Ampère Equations and Quantitative Stability of Optimal Transport. <i>Foundations of Computational Mathematics</i> , 2021, 21, 1099-1140.	1.5	10
196	Quantitative Stability in the Geometry of Semi-discrete Optimal Transport. <i>International Mathematics Research Notices</i> , 2022, 2022, 7354-7389.	0.5	2
197	Global regularity for the Monge-Ampère equation with natural boundary condition. <i>Annals of Mathematics</i> , 2021, 194, .	2.1	5
198	Exponential convergence of parabolic optimal transport on bounded domains. <i>Analysis and PDE</i> , 2020, 13, 2183-2204.	0.6	2
200	Monotone discretization of the Monge-Ampère equation of optimal transport. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2022, 56, 815-865.	0.8	6
201	A linear finite-difference scheme for approximating random distances on cartesian grids. <i>ESAIM - Control, Optimisation and Calculus of Variations</i> , 2022, 28, 45.	0.7	2
202	On estimates for augmented Hessian type parabolic equations on Riemannian manifolds. <i>Electronic Research Archive</i> , 2022, 30, 3266-3289.	0.4	0
203	When optimal transport meets information geometry. <i>Information Geometry</i> , 2022, 5, 47-78.	0.8	2
204	Fully Nonlinear Elliptic Equations with Gradient Terms on Hermitian Manifolds. <i>International Mathematics Research Notices</i> , 2023, 2023, 14006-14042.	0.5	3

#	ARTICLE	IF	CITATIONS
205	The radial solution for an eigenvalue problem of singular augmented Hessian equation. Applied Mathematics Letters, 2022, 134, 108330.	1.5	9
206	Entropic optimal transport: Geometry and large deviations. Duke Mathematical Journal, 2022, 171, .	0.8	11
207	A REMARK ON THE GEOMETRIC INTERPRETATION OF THE A3W CONDITION FROM OPTIMAL TRANSPORT. Bulletin of the Australian Mathematical Society, 2023, 108, 162-165.	0.3	1
208	Necessary and sufficient conditions of entire subsolutions to Monge-Ampère type equations. Annals of Functional Analysis, 2023, 14, .	0.3	4
209	Weak solutions of generated Jacobian equations. Mathematics in Engineering, 2023, 5, 1-20.	0.5	1
210	A note on second derivative estimates for Monge-Ampère-type equations. Advanced Nonlinear Studies, 2023, 23, .	0.7	1
212	First and second derivative Hölder estimates for generated Jacobian equations. Calculus of Variations and Partial Differential Equations, 2023, 62, .	0.9	0
213	Entire subsolutions of a kind of $k$ -Hessian type equations with gradient terms. Communications on Pure and Applied Analysis, 2023, 22, 946-969.	0.4	1
214	A note on optimal transport and Monge-Ampère geometry. Journal of Geometry and Physics, 2023, 186, 104771.	0.7	1
215	Optimal Transport for Generative Models. , 2023, , 1659-1706.		0
216	Convergence rate of general entropic optimal transport costs. Calculus of Variations and Partial Differential Equations, 2023, 62, .	0.9	4
217	Geometry of vectorial martingale optimal transportations and duality. Mathematical Programming, 2024, 204, 349-383.	1.6	0