

Brittany D Froese

List of Publications by Year in descending order

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28
papers

1,023
citations

687363

13
h-index

552781

26
g-index

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all docs

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docs citations

28
times ranked

432
citing authors

#	ARTICLE	IF	CITATIONS
1	A convergent finite difference method for computing minimal Lagrangian graphs. <i>Communications on Pure and Applied Analysis</i> , 2022, 21, 393.	0.8	4
2	Convergent Finite Difference Methods for Fully Nonlinear Elliptic Equations in Three Dimensions. <i>Journal of Scientific Computing</i> , 2022, 90, .	2.3	4
3	A convergence framework for optimal transport on the sphere. <i>Numerische Mathematik</i> , 2022, 151, 627-657.	1.9	3
4	A convergent finite difference method for optimal transport on the sphere. <i>Journal of Computational Physics</i> , 2021, 445, 110621.	3.8	6
5	Convergent numerical method for the reflector antenna problem via optimal transport on the sphere. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2021, 38, 1704.	1.5	1
6	Convergence Framework for the Second Boundary Value Problem for the Monge–Ampère Equation. <i>SIAM Journal on Numerical Analysis</i> , 2019, 57, 945-971.	2.3	11
7	Optimal transport theory to simplify freeform design. , 2019, , .		0
8	Meshfree finite difference approximations for functions of the eigenvalues of the Hessian. <i>Numerische Mathematik</i> , 2018, 138, 75-99.	1.9	18
9	Higher-Order Adaptive Finite Difference Methods for Fully Nonlinear Elliptic Equations. <i>Journal of Scientific Computing</i> , 2018, 75, 1282-1306.	2.3	12
10	Application of optimal transport and the quadratic Wasserstein metric to full-waveform inversion. <i>Geophysics</i> , 2018, 83, R43-R62.	2.6	166
11	Convergent approximation of non-continuous surfaces of prescribed Gaussian curvature. <i>Communications on Pure and Applied Analysis</i> , 2018, 17, 671-707.	0.8	7
12	Numerical methods for the 2-Hessian elliptic partial differential equation. <i>IMA Journal of Numerical Analysis</i> , 2017, 37, 209-236.	2.9	3
13	A multigrid scheme for 3D Monge–Ampère equations. <i>International Journal of Computer Mathematics</i> , 2017, 94, 1850-1866.	1.8	6
14	8. Weak Monge–Ampère solutions of the semi-discrete optimal transportation problem. , 2017, , 175-203.		2
15	Simplified freeform optics design for complicated laser beam shaping. <i>Applied Optics</i> , 2017, 56, 9308.	1.8	40
16	Freeform illumination optics construction following an optimal transport map. <i>Applied Optics</i> , 2016, 55, 4301.	2.1	60
17	Composite method for precise freeform optical beam shaping. <i>Applied Optics</i> , 2015, 54, 9364.	2.1	19
18	Fast sweeping methods for hyperbolic systems of conservation laws at steady state II. <i>Journal of Computational Physics</i> , 2015, 286, 70-86.	3.8	10

#	ARTICLE	IF	CITATIONS
19	Creating unconventional geometric beams with large depth of field using double freeform-surface optics. <i>Applied Optics</i> , 2015, 54, 6277.	2.1	28
20	Numerical solution of the Optimal Transportation problem using the Monge–Ampère equation. <i>Journal of Computational Physics</i> , 2014, 260, 107-126.	3.8	132
21	Application of the Wasserstein metric to seismic signals. <i>Communications in Mathematical Sciences</i> , 2014, 12, 979-988.	1.0	136
22	Fast sweeping methods for hyperbolic systems of conservation laws at steady state. <i>Journal of Computational Physics</i> , 2013, 255, 316-338.	3.8	12
23	Convergent Filtered Schemes for the Monge–Ampère Partial Differential Equation. <i>SIAM Journal on Numerical Analysis</i> , 2013, 51, 423-444.	2.3	66
24	A Numerical Method for the Elliptic Monge–Ampère Equation with Transport Boundary Conditions. <i>SIAM Journal of Scientific Computing</i> , 2012, 34, A1432-A1459.	2.8	60
25	Convergent Finite Difference Solvers for Viscosity Solutions of the Elliptic Monge–Ampère Equation in Dimensions Two and Higher. <i>SIAM Journal on Numerical Analysis</i> , 2011, 49, 1692-1714.	2.3	83
26	Fast finite difference solvers for singular solutions of the elliptic Monge–Ampère equation. <i>Journal of Computational Physics</i> , 2011, 230, 818-834.	3.8	48
27	Two Numerical Methods for the elliptic Monge–Ampère equation. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2010, 44, 737-758.	1.9	79
28	Numerical averaging of non-divergence structure elliptic operators. <i>Communications in Mathematical Sciences</i> , 2009, 7, 785-804.	1.0	7