

Brittany D Froese

List of Publications by Year in descending order

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Version: 2024-02-01

28
papers

1,023
citations

687363

13
h-index

552781

26
g-index

28
all docs

28
docs citations

28
times ranked

432
citing authors

#	ARTICLE	IF	CITATIONS
1	Application of optimal transport and the quadratic Wasserstein metric to full-waveform inversion. <i>Geophysics</i> , 2018, 83, R43-R62.	2.6	166
2	Application of the Wasserstein metric to seismic signals. <i>Communications in Mathematical Sciences</i> , 2014, 12, 979-988.	1.0	136
3	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
4	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
5	Two Numerical Methods for the elliptic Monge-Ampère equation. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2010, 44, 737-758.	1.9	79
6	Convergent Filtered Schemes for the Monge-Ampère Partial Differential Equation. <i>SIAM Journal on Numerical Analysis</i> , 2013, 51, 423-444.	2.3	66
7	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
8	Freeform illumination optics construction following an optimal transport map. <i>Applied Optics</i> , 2016, 55, 4301.	2.1	60
9	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
10	Simplified freeform optics design for complicated laser beam shaping. <i>Applied Optics</i> , 2017, 56, 9308.	1.8	40
11	Creating unconventional geometric beams with large depth of field using double freeform-surface optics. <i>Applied Optics</i> , 2015, 54, 6277.	2.1	28
12	Composite method for precise freeform optical beam shaping. <i>Applied Optics</i> , 2015, 54, 9364.	2.1	19
13	Meshfree finite difference approximations for functions of the eigenvalues of the Hessian. <i>Numerische Mathematik</i> , 2018, 138, 75-99.	1.9	18
14	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
15	Higher-Order Adaptive Finite Difference Methods for Fully Nonlinear Elliptic Equations. <i>Journal of Scientific Computing</i> , 2018, 75, 1282-1306.	2.3	12
16	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
17	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
18	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

#	ARTICLE	IF	CITATIONS
19	Numerical averaging of non-divergence structure elliptic operators. Communications in Mathematical Sciences, 2009, 7, 785-804.	1.0	7
20	A multigrid scheme for 3D Monge-Ampère equations. International Journal of Computer Mathematics, 2017, 94, 1850-1866.	1.8	6
21	A convergent finite difference method for optimal transport on the sphere. Journal of Computational Physics, 2021, 445, 110621.	3.8	6
22	A convergent finite difference method for computing minimal Lagrangian graphs. Communications on Pure and Applied Analysis, 2022, 21, 393.	0.8	4
23	Convergent Finite Difference Methods for Fully Nonlinear Elliptic Equations in Three Dimensions. Journal of Scientific Computing, 2022, 90, .	2.3	4
24	Numerical methods for the 2-Hessian elliptic partial differential equation. IMA Journal of Numerical Analysis, 2017, 37, 209-236.	2.9	3
25	A convergence framework for optimal transport on the sphere. Numerische Mathematik, 2022, 151, 627-657.	1.9	3
26	8. Weak Monge-Ampère solutions of the semi-discrete optimal transportation problem. , 2017, , 175-203.		2
27	Convergent numerical method for the reflector antenna problem via optimal transport on the sphere. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2021, 38, 1704.	1.5	1
28	Optimal transport theory to simplify freeform design. , 2019, , .		0