

# David Bourne

## List of Publications by Year in descending order

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16  
papers

133  
citations

1307594

7  
h-index

1281871

11  
g-index

16  
all docs

16  
docs citations

16  
times ranked

102  
citing authors

#	ARTICLE	IF	CITATIONS
1	Semi-discrete optimal transport methods for the semi-geostrophic equations. <i>Calculus of Variations and Partial Differential Equations</i> , 2022, 61, 1.	1.7	3
2	An inverse problem for Voronoi diagrams: A simplified model of non-destructive testing with ultrasonic arrays. <i>Mathematical Methods in the Applied Sciences</i> , 2021, 44, 3727-3745.	2.3	4
3	Asymptotic Optimality of the Triangular Lattice for a Class of Optimal Location Problems. <i>Communications in Mathematical Physics</i> , 2021, 387, 1549-1602.	2.2	1
4	Laguerre tessellations and polycrystalline microstructures: a fast algorithm for generating grains of given volumes. <i>Philosophical Magazine</i> , 2020, 100, 2677-2707.	1.6	21
5	Ollivier–Ricci Idleness Functions of Graphs. <i>SIAM Journal on Discrete Mathematics</i> , 2018, 32, 1408-1424.	0.8	21
6	Controlling Fragment Competition on Pathways to Addressable Self-Assembly. <i>Journal of Physical Chemistry B</i> , 2018, 122, 9815-9825.	2.6	5
7	Energy Bounds for a Compressed Elastic Film on a Substrate. <i>Journal of Nonlinear Science</i> , 2017, 27, 453-494.	2.1	13
8	Folding Patterns in Partially Delaminated Thin Films. <i>Lecture Notes in Applied and Computational Mechanics</i> , 2016, , 25-39.	2.2	1
9	Centroidal Power Diagrams, Lloyd's Algorithm, and Applications to Optimal Location Problems. <i>SIAM Journal on Numerical Analysis</i> , 2015, 53, 2545-2569.	2.3	16
10	Steady Bifurcating Solutions of the Couette–Taylor Problem for Flow in a Deformable Cylinder. <i>Journal of Dynamics and Differential Equations</i> , 2015, 27, 457-483.	1.9	0
11	Hexagonal Patterns in a Simplified Model for Block Copolymers. <i>SIAM Journal on Applied Mathematics</i> , 2014, 74, 1315-1337.	1.8	8
12	Optimality of the Triangular Lattice for a Particle System with Wasserstein Interaction. <i>Communications in Mathematical Physics</i> , 2014, 329, 117-140.	2.2	18
13	Rotational symmetry vs. axisymmetry in shell theory. <i>International Journal of Engineering Science</i> , 2010, 48, 991-1005.	5.0	4
14	A Non-Self-Adjoint Quadratic Eigenvalue Problem Describing a Fluid-Solid Interaction Part I: Formulation, Analysis, and Computations. <i>Communications on Pure and Applied Analysis</i> , 2009, 8, 123-142.	0.8	2
15	A Non-Self-Adjoint Quadratic Eigenvalue Problem Describing a Fluid-Solid Interaction Part II: Analysis of Convergence. <i>Communications on Pure and Applied Analysis</i> , 2009, 8, 143-160.	0.8	4
16	Hydrodynamic stability, the Chebyshev tau method and spurious eigenvalues. <i>Continuum Mechanics and Thermodynamics</i> , 2003, 15, 571-579.	2.2	12