

Jamie M Taylor

List of Publications by Year in descending order

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13
papers

67
citations

1684188

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1588992

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14
all docs

14
docs citations

14
times ranked

42
citing authors

#	ARTICLE	IF	CITATIONS
1	Density functional theory for dense nematic liquid crystals with steric interactions. <i>Physical Review E</i> , 2017, 96, 022704.	2.1	15
2	On quadrature rules for solving Partial Differential Equations using Neural Networks. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2022, 393, 114710.	6.6	13
3	Convex Integration Arising in the Modelling of Shape-Memory Alloys: Some Remarks on Rigidity, Flexibility and Some Numerical Implementations. <i>Journal of Nonlinear Science</i> , 2019, 29, 2137-2184.	2.1	11
4	Maximum Entropy Methods as the Bridge Between Microscopic and Macroscopic Theory. <i>Journal of Statistical Physics</i> , 2016, 164, 1429-1459.	1.2	10
5	Oseen–Frank-type theories of ordered media as the Γ -limit of a non-local mean-field free energy. <i>Mathematical Models and Methods in Applied Sciences</i> , 2018, 28, 615-657.	3.3	6
6	The excluded volume of two-dimensional convex bodies: shape reconstruction and non-uniqueness. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2019, 52, 095002.	2.1	3
7	Γ -convergence of a mean-field model of a chiral doped nematic liquid crystal to the Oseen–Frank description of cholesterics. <i>Nonlinearity</i> , 2020, 33, 3062-3102.	1.4	3
8	An Analysis of Equilibria in Dense Nematic Liquid Crystals. <i>SIAM Journal on Mathematical Analysis</i> , 2018, 50, 1918-1957.	1.9	2
9	On a probabilistic model for martensitic avalanches incorporating mechanical compatibility. <i>Nonlinearity</i> , 2021, 34, 4844-4896.	1.4	2
10	Leaky cell model of hard spheres. <i>Journal of Chemical Physics</i> , 2021, 154, 104505.	3.0	1
11	Cavity Volume and Free Energy in Many-Body Systems. <i>Journal of Nonlinear Science</i> , 2021, 31, 1.	2.1	1
12	Contributions of repulsive and attractive interactions to nematic order. <i>Liquid Crystals</i> , 2018, 45, 2352-2360.	2.2	0
13	Hölder regularity and convergence for a non-local model of nematic liquid crystals in the large-domain limit. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 2022, 215, 112641.	1.1	0