Qian Shao

List of Publications by Year
in descending order

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26	545	623699	642715
papers	citations	14	23
		h-index	g-index

26	26	26	459
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Spatially Confined CVD Growth of Highâ€Density Semiconducting Singleâ€Walled Carbon Nanotube Horizontal Arrays. Advanced Functional Materials, 2022, 32, 2106643.	14.9	5
2	Theoretical optimization of functional graded micropillars for strong and durable bioinspired dry adhesion. Mechanics of Advanced Materials and Structures, 2022, 29, 7723-7731.	2.6	1
3	A data-driven analysis on bridging techniques for heterogeneous materials and structures. Mechanics of Advanced Materials and Structures, 2021, 28, 1-15.	2.6	10
4	Coreâ€“Shell Magnetic Micropillars for Reprogrammable Actuation. ACS Nano, 2021, 15, 4747-4758.	14.6	30
5	Data-Driven Discovery and Understanding of Ultrahigh-Modulus Crystals. Chemistry of Materials, 2021, 33, 1276-1284.	6.7	16
6	Bounds on the in-plane Poisson's ratios and the in-plane linear and area compressibilities for sheet crystals. Journal of the Mechanics and Physics of Solids, 2021, 152, 104409.	4.8	10
7	Joule heating effect on thermal stress for a bi-material interface crack. International Journal of Solids and Structures, 2021, 226-227, 111069.	2.7	4
8	Three-dimensional natural convection, entropy generation and mixing in heterogeneous porous medium. Advances in Water Resources, 2021, 155, 103992.	3.8	13
9	Uncertainty Analysis of Seepage-Induced Consolidation in a Fractured Porous Medium. CMES - Computer Modeling in Engineering and Sciences, 2021, 129, 279-297.	1.1	7
10	Elasticity-based-exfoliability measure for high-throughput computational exfoliation of two-dimensional materials. Npj Computational Materials, 2021, 7, .	8.7	10
11	Global sensitivity analysis of solid oxide fuel cells with Bayesian sparse polynomial chaos expansions. Applied Energy, 2020, 260, 114318.	10.1	15
12	Elastic anisotropy measure for two-dimensional crystals. Extreme Mechanics Letters, 2020, 34, 100615.	4.1	54
13	Use of Global Sensitivity and Data-Worth Analysis for an Efficient Estimation of Soil Hydraulic Properties. Water (Switzerland), 2020, 12, 736.	2.7	1
14	Random Sampling from Joint Probability Distributions Defined in a Bayesian Framework. SIAM Journal of Scientific Computing, 2019, 41, A316-A338.	2.8	1
15	A 3â€D Semianalytical Solution for Densityâ€Driven Flow in Porous Media. Water Resources Research, 2018, 54, 10,094.	4.2	24
16	A Fourier-related double scale analysis on the instability phenomena of sandwich plates. Computer Methods in Applied Mechanics and Engineering, 2017, 318, 270-295.	6.6	40
17	Bayesian sparse polynomial chaos expansion for global sensitivity analysis. Computer Methods in Applied Mechanics and Engineering, 2017, 318, 474-496.	6.6	89
18	A robust Riks-like path following method for strain-actuated snap-through phenomena in soft solids. Computer Methods in Applied Mechanics and Engineering, 2017, 323, 416-438.	6.6	14

#	Article	IF	Citations
19	A new benchmark reference solution for double-diffusive convection in a heterogeneous porous medium. Numerical Heat Transfer, Part B: Fundamentals, 2016, 70, 373-392.	0.9	20
20	A high-accurate solution for Darcy-Brinkman double-diffusive convection in saturated porous media. Numerical Heat Transfer, Part B: Fundamentals, 2016, 69, 26-47.	0.9	35
21	Influence of fluid flow and heat transfer on crack propagation in SOFC multi-layered like material with anisotropic porous layers. International Journal of Solids and Structures, 2016, 78-79, 189-198.	2.7	16
22	An advanced numerical model for energy conversion and crack growth predictions in Solid Oxide Fuel Cell units. International Journal of Hydrogen Energy, 2015, 40, 16509-16520.	7.1	15
23	A combination of Crouzeix-Raviart, Discontinuous Galerkin and MPFA methods for buoyancy-driven flows. International Journal of Numerical Methods for Heat and Fluid Flow, 2014, 24, 735-759.	2.8	24
24	An XFEM model for cracked porous media: effects of fluid flow and heat transfer. International Journal of Fracture, 2014, 185, 155-169.	2.2	13
25	Influence of heat transfer and fluid flow on crack growth in multilayered porous/dense materials using XFEM: Application to Solid Oxide Fuel Cell like material design. International Journal of Solids and Structures, 2014, 51, 3557-3569.	2.7	16
26	An XFEM crack-tip enrichment for a crack terminating at a bi-material interface. Engineering Fracture Mechanics, 2013, 102, 51-64.	4.3	62