

# Qiang Sun

## List of Publications by Year in descending order

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53  
papers

849  
citations

516710

16  
h-index

552781

26  
g-index

57  
all docs

57  
docs citations

57  
times ranked

842  
citing authors

#	ARTICLE	IF	CITATIONS
1	Free convection in a triangle cavity filled with a porous medium saturated with nanofluids with flush mounted heater on the wall. <i>International Journal of Thermal Sciences</i> , 2011, 50, 2141-2153.	4.9	134
2	Mixed convection in gravity-driven nano-liquid film containing both nanoparticles and gyrotactic microorganisms. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2015, 36, 163-178.	3.6	52
3	Non-singular boundary integral methods for fluid mechanics applications. <i>Journal of Fluid Mechanics</i> , 2012, 696, 468-478.	3.4	42
4	Three-dimensional stagnation flow of a nanofluid containing both nanoparticles and microorganisms on a moving surface with anisotropic slip. <i>Applied Mathematical Modelling</i> , 2016, 40, 4136-4150.	4.2	34
5	A highly efficient porous rod-like Ce-doped ZnO photocatalyst for the degradation of dye contaminants in water. <i>Beilstein Journal of Nanotechnology</i> , 2019, 10, 1157-1165.	2.8	34
6	Reactive molten salt synthesis of natural graphite flakes decorated with SnO <sub>2</sub> nanorods as high performance, low cost anode material for lithium ion batteries. <i>Journal of Alloys and Compounds</i> , 2019, 792, 1213-1222.	5.5	33
7	Boundary regularized integral equation formulation of the Helmholtz equation in acoustics. <i>Royal Society Open Science</i> , 2015, 2, 140520.	2.4	28
8	Nonsingular Field-Only Surface Integral Equations for Electromagnetic Scattering. <i>IEEE Transactions on Antennas and Propagation</i> , 2017, 65, 972-977.	5.1	28
9	Engineering of three-dimensional nanohybrids: Co <sub>9</sub> S <sub>8</sub> nanocrystal coated hollow carbon nanosphere for advanced lithium storage. <i>Applied Surface Science</i> , 2020, 514, 146092.	6.1	27
10	A robust and non-singular formulation of the boundary integral method for the potential problem. <i>Engineering Analysis With Boundary Elements</i> , 2014, 43, 117-123.	3.7	25
11	A box model for representing estuarine physical processes in Earth system models. <i>Ocean Modelling</i> , 2017, 112, 139-153.	2.4	24
12	Robust multiscale field-only formulation of electromagnetic scattering. <i>Physical Review B</i> , 2017, 95, .	3.2	23
13	Field-only surface integral equations: scattering from a dielectric body. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2020, 37, 284.	1.5	21
14	Field-only surface integral equations: scattering from a perfect electric conductor. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2020, 37, 276.	1.5	21
15	Ricocheting Droplets Moving on Super-repellent Surfaces. <i>Advanced Science</i> , 2019, 6, 1901846.	11.2	20
16	Generalized Hybrid Nanofluid Model with the Application of Fully Developed Mixed Convection Flow in a Vertical Microchannel*. <i>Communications in Theoretical Physics</i> , 2019, 71, 903.	2.5	20
17	Stokesian dynamics of pill-shaped Janus particles with stick and slip boundary conditions. <i>Physical Review E</i> , 2013, 87, 043009.	2.1	16
18	Free convection in a tilted triangle porous cavity filled with Cu-water nanofluid with flush mounted heater on the wall. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2013, 24, 2-20.	2.8	16

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19	Contributions of Different Sea-Level Processes to High-Tide Flooding Along the U.S. Coastline. <i>Journal of Geophysical Research: Oceans</i> , 2022, 127, .	2.6	16
20	Solving the Klein-Gordon equation by means of the homotopy analysis method. <i>Applied Mathematics and Computation</i> , 2005, 169, 355-365.	2.2	15
21	Effect of Bulk Viscosity and Emulsion Droplet Size on the Separation Efficiency of Model Mineral Oil-in-Water (O/W) Emulsions under Ultrasonic Standing Wave Fields: A Theoretical and Experimental Investigation. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 7901-7912.	3.7	13
22	Free convection of a hybrid nanofluid past a vertical plate embedded in a porous medium with anisotropic permeability. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2019, 30, 4083-4101.	2.8	12
23	Design, synthesis and application of new iron-based cockscomb-like photocatalyst for high effectively degrading water contaminant under sunlight. <i>Applied Surface Science</i> , 2020, 525, 146559.	6.1	11
24	Optical Forces and Torques on Eccentric Nanoscale Core-Shell Particles. <i>ACS Photonics</i> , 2021, 8, 1103-1111.	6.6	11
25	Three-dimensional free bio-convection of nanofluid near stagnation point on general curved isothermal surface. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2016, 37, 417-432.	3.6	10
26	Field-only integral equation method for time domain scattering of electromagnetic pulses. <i>Applied Optics</i> , 2017, 56, 9377.	1.8	10
27	Detailed, real-time characterization of particle deposition during crossflow filtration as influenced by solution properties. <i>Journal of Membrane Science</i> , 2018, 555, 115-124.	8.2	10
28	Analysis of Mixed Convection in a Vertical Channel in the Presence of Electrical Double Layers. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 2018, 73, 741-751.	1.5	10
29	Assessing the Skill of the Improved Treatment of Riverine Freshwater in the Community Earth System Model (CESM) Relative to a New Salinity Climatology. <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 1189-1206.	3.8	10
30	Green electro-synthesis of Li <sub>2</sub> Fe <sub>3</sub> O <sub>5</sub> microcrystals as high performance anode material for lithium-ion batteries. <i>Journal of Electroanalytical Chemistry</i> , 2020, 863, 114061.	3.8	10
31	Helmholtz Decomposition and Boundary Element Method Applied to Dynamic Linear Elastic Problems. <i>Journal of Elasticity</i> , 2019, 137, 83-100.	1.9	9
32	Analysis of BBM solitary wave interactions using the conserved quantities. <i>Chaos, Solitons and Fractals</i> , 2022, 155, 111725.	5.1	9
33	A simple and highly efficient composite based on g-C <sub>3</sub> N <sub>4</sub> for super rapid removal of multiple organic dyes from water under sunlight. <i>Catalysis Science and Technology</i> , 2022, 12, 786-798.	4.1	9
34	A robust and accurate formulation of molecular and colloidal electrostatics. <i>Journal of Chemical Physics</i> , 2016, 145, 054106.	3.0	8
35	Applying a Chemical Structure Teaching Method in the Pharmaceutical Analysis Curriculum to Improve Student Engagement and Learning. <i>Journal of Chemical Education</i> , 2020, 97, 421-426.	2.3	8
36	A Non-Singular, Field-Only Surface Integral Method for Interactions between Electric and Magnetic Dipoles and Nano-Structures. <i>Annalen Der Physik</i> , 2022, 534, .	2.4	8

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37	Coupled finite difference and boundary element methods for fluid flow through a vessel with multibranches in tumours. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2013, 29, 309-331.	2.1	7
38	Eliminating the fictitious frequency problem in BEM solutions of the external Helmholtz equation. <i>Engineering Analysis With Boundary Elements</i> , 2019, 109, 106-116.	3.7	7
39	Hierarchical microstructure constructed with graphitic carbon-coated Ni <sub>3</sub> S <sub>2</sub> nanoparticles anchored on N-doped mesoporous carbon nanoflakes for optimized sodium storage. <i>Nanoscale</i> , 2021, 13, 18734-18740.	5.6	7
40	Modeling heat transfer of nanofluid flow in microchannels with electrokinetic and slippery effects using Buongiorno's model. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2019, 29, 2566-2587.	2.8	6
41	Interactions of multiple three-dimensional nonlinear high frequency magnetosonic waves in magnetized plasma. <i>Physics of Fluids</i> , 2020, 32, .	4.0	6
42	Stagnation Flow of a SWCNT Nanofluid towards a Plane Surface with Heterogeneous-Homogeneous Reactions. <i>Mathematical Problems in Engineering</i> , 2020, 2020, 1-12.	1.1	5
43	A clustering-based approach to ocean model data comparison around Antarctica. <i>Ocean Science</i> , 2021, 17, 131-145.	3.4	5
44	Preferential coupling of diamond NV centres in step-index fibres. <i>Optics Express</i> , 2021, 29, 14425.	3.4	5
45	Analytical solution for an acoustic boundary layer around an oscillating rigid sphere. <i>Physics of Fluids</i> , 2020, 32, 126105.	4.0	5
46	Analytical solution for a vibrating rigid sphere with an elastic shell in an infinite linear elastic medium. <i>International Journal of Solids and Structures</i> , 2022, 239-240, 111448.	2.7	3
47	Engineering Iron-Based Nanoparticles Spatially Dispersed on Mesoporous Carbon and Its Catalytic Activity for the Direct Oxidization of Benzene to Phenol. <i>Nano</i> , 2018, 13, 1850094.	1.0	2
48	Low Temperature Synthesis of Mesoporous SiC in Dual-Confined Spaces via Magnesiothermic Reduction. <i>Nano</i> , 2019, 14, 1950115.	1.0	2
49	Carbene Ligand-Doped Fe <sub>2</sub> O <sub>3</sub> Composite for Rapid Removal of Multiple Dyes under Sunlight. <i>Sustainability</i> , 2021, 13, 12669.	3.2	2
50	Non-Singular Boundary Integral Method and Its Applications to Oscillating Bubbles. , 2012, , .		0
51	Simple field enhancement formulation for gold bipyramids for application in two-photon luminescence and scattering. , 2018, , .		0
52	How deep are your centres? Probing the distance of nitrogen vacancy centres from the surface of nanodiamonds. , 2019, , .		0
53	A simple and robust surface integral method to model light and matter interactions. , 2019, , .		0