

# Nan Shi

## List of Publications by Year in descending order

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Version: 2024-02-01

25  
papers

667  
citations

840776

11  
h-index

610901

24  
g-index

25  
all docs

25  
docs citations

25  
times ranked

805  
citing authors

#	ARTICLE	IF	CITATIONS
1	Transparent and stretchable triboelectric nanogenerator for self-powered tactile sensing. <i>Nano Energy</i> , 2019, 59, 302-310.	16.0	285
2	Diffusiophoretic Focusing of Suspended Colloids. <i>Physical Review Letters</i> , 2016, 117, 258001.	7.8	69
3	Direct Measurements of Colloidal Solvophoresis under Imposed Solvent and Solute Gradients. <i>Langmuir</i> , 2015, 31, 4402-4410.	3.5	56
4	Ultrafast multiplexed detection of SARS-CoV-2 RNA using a rapid droplet digital PCR system. <i>Biosensors and Bioelectronics</i> , 2021, 188, 113282.	10.1	52
5	Integrated microfluidic system for isolating exosome and analyzing protein marker PD-L1. <i>Biosensors and Bioelectronics</i> , 2022, 204, 113879.	10.1	28
6	Porous carbon with uniformly distributed cobalt nanoparticles derived from ZIF-67 for efficient removal of vapor elemental mercury: A combined experimental and DFT study. <i>Chemical Engineering Journal</i> , 2022, 428, 132095.	12.7	26
7	A two-step strategy for delivering particles to targets hidden within microfabricated porous media. <i>Science Advances</i> , 2021, 7, .	10.3	16
8	Droplet migration into dead-end channels at high salinity enhanced by micelle gradients of a zwitterionic surfactant. <i>Physical Review Fluids</i> , 2021, 6, .	2.5	14
9	Mercury speciation and size-specific distribution in filterable and condensable particulate matter from coal combustion. <i>Science of the Total Environment</i> , 2021, 787, 147597.	8.0	14
10	Enhancing the interaction between Mn and Ce oxides supported on fly ash with organic acid ligands interface modification for effective VOC removal: A combined experimental and DFT study. <i>Fuel</i> , 2022, 313, 123043.	6.4	14
11	Entropic stochastic resonance enables trapping under periodic confinement: A Brownian-dynamics study. <i>Physical Review E</i> , 2014, 89, 012138.	2.1	13
12	Hierarchically porous biochar templated by in situ formed ZnO for rapid Pb <sup>2+</sup> and Cd <sup>2+</sup> adsorption in wastewater: Experiment and molecular dynamics study. <i>Environmental Pollution</i> , 2022, 302, 119107.	7.5	11
13	Significant enhancement of VOCs conversion by facile mechanochemistry coupled MnO <sub>2</sub> modified fly ash: Mechanism and application. <i>Fuel</i> , 2021, 304, 121443.	6.4	9
14	Removal of elementary mercury by solid sorbents at different temperatures: Variation of the desorption activation energy through thermal desorption analysis. <i>Fuel</i> , 2022, 307, 121889.	6.4	9
15	Tailoring the Nanoporous Architecture of Hydrogels to Exploit Entropic Trapping. <i>Physical Review Letters</i> , 2010, 105, 108101.	7.8	8
16	Investigating the effect of flue gas temperature and excess air coefficient on the size distribution of condensable particulate matters. <i>Fuel</i> , 2021, 298, 120866.	6.4	8
17	Microfluidic device for chemical and mechanical manipulation of suspended cells. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 045403.	2.8	7
18	Enrichment and occurrence form of rare earth elements during coal and coal gangue combustion. <i>Environmental Science and Pollution Research</i> , 2022, 29, 44709-44722.	5.3	7

#	ARTICLE	IF	CITATIONS
19	An Entropic Force Microscope Enables Nano-Scale Conformational Probing of Biomolecules. <i>Small</i> , 2014, 10, 2553-2557.	10.0	6
20	Temperature dependence of diffusiophoresis <i>via</i> a novel microfluidic approach. <i>Lab on A Chip</i> , 2022, 22, 1980-1988.	6.0	5
21	Immobilization of gaseous elemental mercury by Ag nanoparticles: A combined DFT and experimental study. <i>Applied Surface Science</i> , 2022, 591, 153217.	6.1	4
22	Using Microchip Gel Electrophoresis to Probe DNA-Drug Binding Interactions. <i>Methods in Molecular Biology</i> , 2014, 1094, 13-24.	0.9	3
23	Noise-enhanced gel electrophoresis. <i>Electrophoresis</i> , 2014, 35, 1758-1765.	2.4	1
24	Tunable <i>in-situ</i> electro-polymerization of hydrogel films for microchip-based bioanalysis. <i>Biomicrofluidics</i> , 2016, 10, 033103.	2.4	1
25	Autonomous Reservoir Nano-Agents. , 2019, , .		1