Aikifa Raza

List of Publications by Year
in descending order

39 papers	1,512 citations	361296 20 h-index	330025 37 g-index
41 all docs	41 docs citations	41 times ranked	2059 citing authors

#	Article	IF	Citations
1	An in situ polymerization approach for the synthesis of superhydrophobic and superoleophilic nanofibrous membranes for oilâ€“water separation. Nanoscale, 2012, 4, 7847.	2.8	251
2	In situ cross-linked superwetting nanofibrous membranes for ultrafast oilâ€“water separation. Journal of Materials Chemistry A, 2014, 2, 10137-10145.	5.2	156
3	Tortuously structured polyvinyl chloride/polyurethane fibrous membranes for high-efficiency fine particulate filtration. Journal of Colloid and Interface Science, 2013, 398, 240-246.	5.0	146
4	Nanostructured TiO2/CuO dual-coated copper meshes with superhydrophilic, underwater superoleophobic and self-cleaning properties for highly efficient oil/water separation. Chemical Engineering Journal, 2017, 328, 497-510.	6.6	120
5	Synthesis of superamphiphobic breathable membranes utilizing SiO2 nanoparticles decorated fluorinated polyurethane nanofibers. Nanoscale, 2012, 4, 7549.	2.8	86
6	Biomimetic Hierarchical TiO₂@CuO Nanowire Arrays-Coated Copper Meshes with Superwetting and Self-Cleaning Properties for Efficient Oil/Water Separation. ACS Sustainable Chemistry and Engineering, 2019, 7, 2569-2577.	3.2	64
7	Novel Receiver-Enhanced Solar Vapor Generation: Review and Perspectives. Energies, 2018, 11, 253.	1.6	59
8	Sunlight-Sensitive Anti-Fouling Nanostructured TiO2 coated Cu Meshes for Ultrafast Oily Water Treatment. Scientific Reports, 2016, 6, 25414.	1.6	49
9	Synthesis of superhydrophobic silica nanofibrous membranes with robust thermal stability and flexibility via in situ polymerization. Nanoscale, 2012, 4, 6581.	2.8	46
10	Localized Surface Plasmonâ€Enhanced Ultrathin Film Broadband Nanoporous Absorbers. Advanced Optical Materials, 2016, 4, 1255-1264.	3.6	42
11	Hierarchical porous carbon nanofibers via electrospinning. Carbon Letters, 2014, 15, 1-14.	3.3	40
12	Novel fluorinated polybenzoxazineâ€“silica films: chemical synthesis and superhydrophobicity. RSC Advances, 2012, 2, 12804.	1.7	39
13	Nanomaterials for the water-energy nexus. MRS Bulletin, 2019, 44, 59-66.	1.7	39
14	Nearâ€Perfect Ultrathin Nanocomposite Absorber with Selfâ€Formed Topping Plasmonic Nanoparticles. Advanced Optical Materials, 2017, 5, 1700222.	3.6	35
15	Microstructural evolution within mushy zone during paraffinâ€™s melting and solidification. International Journal of Heat and Mass Transfer, 2019, 141, 769-778.	2.5	31
16	Direct Prediction of Calcite Surface Wettability with First-Principles Quantum Simulation. Journal of Physical Chemistry Letters, 2017, 8, 5309-5316.	2.1	30
17	The separation of oil in water (O/W) emulsions using polyether sulfone & nitrocellulose microfiltration membranes. Journal of Water Process Engineering, 2018, 25, 113-117.	2.6	30
18	Effective dielectric constants and spectral density analysis of plasmonic nanocomposites. Journal of Applied Physics, 2016, 120, 163103.	1.1	29

#	Article	IF	Citations
19	Condensation of Satellite Droplets on Lubricant-Cloaked Droplets. ACS Applied Materials & Interfaces, 2020, 12, 22246-22255.	4.0	24
20	Corrosion inhibition of layered double hydroxides for metal-based systems. Nano Materials Science, 2021, 3, 47-67.	3.9	24
21	Fabrication of superhydrophobic films with robust adhesion and dual pinning state via in situ polymerization. Journal of Colloid and Interface Science, 2013, 395, 256-262.	5.0	22
22	Refractory Ultrathin Nanocomposite Solar Absorber with Superior Spectral Selectivity and Thermal Stability. Advanced Optical Materials, 2020, 8, 2000679.	3.6	20
23	Direct solar vapor generation with <scp>microâ€3D</scp> printed hydrogel device. EcoMat, 2022, 4, .	6.8	19
24	Impact of PEGDA photopolymerization in micro-stereolithography on 3D printed hydrogel structure and swelling. Soft Matter, 2021, 17, 7188-7195.	1.2	17
25	Mechanically Robust Polyurethane Microfibrous Membranes Exhibiting High Air Permeability. Journal of Fiber Bioengineering and Informatics, 2012, 5, 411-421.	0.2	13
26	Hybrid graphene metasurface for near-infrared absorbers. Optics Express, 2019, 27, 24866.	1.7	11
27	Facile synthesis of robust amphiphobic nanofibrous membranes. Applied Surface Science, 2013, 276, 750-755.	3.1	9
28	Empowering microfluidics by micro-3D printing and solution-based mineral coating. Soft Matter, 2020, 16, 6841-6849.	1.2	9
29	Sputtered SiC coatings for radiative cooling and light absorption. Journal of Photonics for Energy, 2018, 9, 1.	0.8	9
30	Protective Clothing Based on Electrospun Nanofibrous Membranes. Nanostructure Science and Technology, 2014, , 355-369.	0.1	7
31	Water recovery in a concentrated solar power plant. AIP Conference Proceedings, 2016, , .	0.3	7
32	Biomimetic on-chip filtration enabled by direct micro-3D printing on membrane. Scientific Reports, 2022, 12, 8178.	1.6	7
33	Applications of Electrospun Nanofibers in Oil Spill Cleanup. Nanostructure Science and Technology, 2014, , 433-447.	0.1	6
34	Plasmonic nanofluids enhanced solar thermal transfer liquid. AIP Conference Proceedings, 2017, , .	0.3	5
35	Quantum Mechanical Prediction of Wettability of Multiphase Fluidsâ€“Solid Systems at Elevated Temperature. Journal of Physical Chemistry C, 2019, 123, 12753-12761.	1.5	4
36	Imaging micro-scale multiphase flow in 3D-printed porous micromodels. , 2018, , .		3

#	Article	IF	Citations
37	Accelerated Development of Refractory Nanocomposite Solar Absorbers using Bayesian Optimization. MRS Advances, 2020, 5, 1537-1545.	0.5	2
38	Enhancing Visible Light Photocatalysis with Hydrogenated Titanium Dioxide for Anti-Fouling Applications. MRS Advances, 2018, 3, 3181-3187.	0.5	1
39	NMR-MRI Characterization of Low-Salinity Water Alternating CO2 Flooding in tight Carbonate. , 2018, , .		0