

# Aikifa Raza

## List of Publications by Year in descending order

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39  
papers

1,512  
citations

361413

20  
h-index

330143

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41  
all docs

41  
docs citations

41  
times ranked

2059  
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct solar vapor generation with <sc>micro-3D</sc> printed hydrogel device. EcoMat, 2022, 4, .	11.9	19
2	Biomimetic on-chip filtration enabled by direct micro-3D printing on membrane. Scientific Reports, 2022, 12, 8178.	3.3	7
3	Corrosion inhibition of layered double hydroxides for metal-based systems. Nano Materials Science, 2021, 3, 47-67.	8.8	24
4	Impact of PEGDA photopolymerization in micro-stereolithography on 3D printed hydrogel structure and swelling. Soft Matter, 2021, 17, 7188-7195.	2.7	17
5	Refractory Ultrathin Nanocomposite Solar Absorber with Superior Spectral Selectivity and Thermal Stability. Advanced Optical Materials, 2020, 8, 2000679.	7.3	20
6	Empowering microfluidics by micro-3D printing and solution-based mineral coating. Soft Matter, 2020, 16, 6841-6849.	2.7	9
7	Accelerated Development of Refractory Nanocomposite Solar Absorbers using Bayesian Optimization. MRS Advances, 2020, 5, 1537-1545.	0.9	2
8	Condensation of Satellite Droplets on Lubricant-Cloaked Droplets. ACS Applied Materials & Interfaces, 2020, 12, 22246-22255.	8.0	24
9	Microstructural evolution within mushy zone during paraffin's melting and solidification. International Journal of Heat and Mass Transfer, 2019, 141, 769-778.	4.8	31
10	Quantum Mechanical Prediction of Wettability of Multiphase Fluids's Solid Systems at Elevated Temperature. Journal of Physical Chemistry C, 2019, 123, 12753-12761.	3.1	4
11	Biomimetic Hierarchical TiO <sub>2</sub> @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.	6.7	64
12	Nanomaterials for the water-energy nexus. MRS Bulletin, 2019, 44, 59-66.	3.5	39
13	Hybrid graphene metasurface for near-infrared absorbers. Optics Express, 2019, 27, 24866.	3.4	11
14	NMR-MRI Characterization of Low-Salinity Water Alternating CO <sub>2</sub> Flooding in tight Carbonate. , 2018, , .		0
15	The separation of oil in water (O/W) emulsions using polyether sulfone & nitrocellulose microfiltration membranes. Journal of Water Process Engineering, 2018, 25, 113-117.	5.6	30
16	Enhancing Visible Light Photocatalysis with Hydrogenated Titanium Dioxide for Anti-Fouling Applications. MRS Advances, 2018, 3, 3181-3187.	0.9	1
17	Novel Receiver-Enhanced Solar Vapor Generation: Review and Perspectives. Energies, 2018, 11, 253.	3.1	59
18	Sputtered SiC coatings for radiative cooling and light absorption. Journal of Photonics for Energy, 2018, 9, 1.	1.3	9

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19	Imaging micro-scale multiphase flow in 3D-printed porous micromodels. , 2018, , .		3
20	Direct Prediction of Calcite Surface Wettability with First-Principles Quantum Simulation. Journal of Physical Chemistry Letters, 2017, 8, 5309-5316.	4.6	30
21	Plasmonic nanofluids enhanced solar thermal transfer liquid. AIP Conference Proceedings, 2017, , .	0.4	5
22	Near-Perfect Ultrathin Nanocomposite Absorber with Self-Formed Topping Plasmonic Nanoparticles. Advanced Optical Materials, 2017, 5, 1700222.	7.3	35
23	Nanostructured TiO <sub>2</sub> /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.	12.7	120
24	Localized Surface Plasmon-Enhanced Ultrathin Film Broadband Nanoporous Absorbers. Advanced Optical Materials, 2016, 4, 1255-1264.	7.3	42
25	Water recovery in a concentrated solar power plant. AIP Conference Proceedings, 2016, , .	0.4	7
26	Effective dielectric constants and spectral density analysis of plasmonic nanocomposites. Journal of Applied Physics, 2016, 120, 163103.	2.5	29
27	Sunlight-Sensitive Anti-Fouling Nanostructured TiO <sub>2</sub> coated Cu Meshes for Ultrafast Oily Water Treatment. Scientific Reports, 2016, 6, 25414.	3.3	49
28	Protective Clothing Based on Electrospun Nanofibrous Membranes. Nanostructure Science and Technology, 2014, , 355-369.	0.1	7
29	In situ cross-linked superwetting nanofibrous membranes for ultrafast oil-water separation. Journal of Materials Chemistry A, 2014, 2, 10137-10145.	10.3	156
30	Applications of Electrospun Nanofibers in Oil Spill Cleanup. Nanostructure Science and Technology, 2014, , 433-447.	0.1	6
31	Hierarchical porous carbon nanofibers via electrospinning. Carbon Letters, 2014, 15, 1-14.	5.9	40
32	Tortuously structured polyvinyl chloride/polyurethane fibrous membranes for high-efficiency fine particulate filtration. Journal of Colloid and Interface Science, 2013, 398, 240-246.	9.4	146
33	Facile synthesis of robust amphiphobic nanofibrous membranes. Applied Surface Science, 2013, 276, 750-755.	6.1	9
34	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.	9.4	22
35	Novel fluorinated polybenzoxazine-silica films: chemical synthesis and superhydrophobicity. RSC Advances, 2012, 2, 12804.	3.6	39
36	Synthesis of superhydrophobic silica nanofibrous membranes with robust thermal stability and flexibility via in situ polymerization. Nanoscale, 2012, 4, 6581.	5.6	46

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37	An in situ polymerization approach for the synthesis of superhydrophobic and superoleophilic nanofibrous membranes for oil/water separation. Nanoscale, 2012, 4, 7847.	5.6	251
38	Synthesis of superamphiphobic breathable membranes utilizing SiO <sub>2</sub> nanoparticles decorated fluorinated polyurethane nanofibers. Nanoscale, 2012, 4, 7549.	5.6	86
39	Mechanically Robust Polyurethane Microfibrous Membranes Exhibiting High Air Permeability. Journal of Fiber Bioengineering and Informatics, 2012, 5, 411-421.	0.2	13