

Awais Mahmood

List of Publications by Year in descending order

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Version: 2024-02-01

17
papers

727
citations

933447

10
h-index

888059

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17
all docs

17
docs citations

17
times ranked

690
citing authors

#	ARTICLE	IF	CITATIONS
1	Separation Mechanism and Construction of Surfaces with Special Wettability for Oil/Water Separation. ACS Applied Materials & Interfaces, 2019, 11, 11006-11027.	8.0	452
2	Preparation of underwater superoleophobic membranes via TiO ₂ electrostatic self-assembly for separation of stratified oil/water mixtures and emulsions. Journal of Membrane Science, 2020, 602, 117976.	8.2	63
3	Underoil Superhydrophilic Metal Felt Fabricated by Modifying Ultrathin Fumed Silica Coatings for the Separation of Water-in-Oil Emulsions. ACS Applied Materials & Interfaces, 2020, 12, 27663-27671.	8.0	43
4	Robust Superhydrophobic Polytetrafluoroethylene Nanofibrous Coating Fabricated by Self-Assembly and Its Application for Oil/Water Separation. ACS Applied Nano Materials, 2018, 1, 2632-2639.	5.0	41
5	Development of Durable, Fluorine-free, and Transparent Superhydrophobic Surfaces for Oil/Water Separation. ACS Omega, 2019, 4, 6947-6954.	3.5	20
6	Directional Motion of Water Droplet on Nanocone Surface Driven by Curvature Gradient: A Molecular Dynamics Simulation Study. Journal of Physical Chemistry C, 2018, 122, 14937-14944.	3.1	17
7	A promising self-assembly PTFE coating for effective large-scale deicing. Progress in Organic Coatings, 2020, 147, 105732.	3.9	17
8	Nature-inspired design of conical array for continuous and efficient fog collection application. Colloids and Interface Science Communications, 2020, 37, 100283.	4.1	16
9	Spontaneous propulsion of a water nanodroplet induced by a wettability gradient: a molecular dynamics simulation study. Physical Chemistry Chemical Physics, 2020, 22, 4805-4814.	2.8	12
10	Molecular Dynamics Study of Temperature Influence on Directional Motion of Gold Nanoparticle on Nanocone Surface. Journal of Physical Chemistry C, 2019, 123, 4574-4581.	3.1	10
11	Ultra-robust Superhydrophobic/superoleophilic Stainless Mesh Coated by PTFE/SiO ₂ for Oil/water Separation. MRS Advances, 2019, 4, 359-367.	0.9	7
12	Understanding the coalescence and non-coalescence of underwater oil droplets. Chemical Physics, 2020, 529, 110466.	1.9	7
13	Under-oil superhydrophilic salt particle filter for the efficient separation of water-in-oil emulsions. Chemical Communications, 2020, 56, 11585-11588.	4.1	6
14	Vapor-Driven Transport of Different Types of Objects at the Air-Liquid Interface. Journal of Physical Chemistry B, 2019, 123, 7074-7079.	2.6	5
15	Unidirectional transport of water nanodroplets entrapped inside a nonparallel smooth surface: a molecular dynamics simulation study. RSC Advances, 2019, 9, 41984-41992.	3.6	5
16	Atomic-like motion of coverslips at the air-water interface. Colloids and Interface Science Communications, 2019, 32, 100197.	4.1	3
17	Single-step fabrication of microsphere arrays on the surface of flexible materials by direct solidification. Colloids and Interface Science Communications, 2021, 43, 100436.	4.1	3