

Fajun Wang

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

1,794
citations

257450

24
h-index

276875

41
g-index

53
all docs

53
docs citations

53
times ranked

2031
citing authors

#	ARTICLE	IF	CITATIONS
1	Superhydrophobic Surfaces on Light Alloy Substrates Fabricated by a Versatile Process and Their Corrosion Protection. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 3101-3107.	8.0	200
2	Anti-icing properties of superhydrophobic ZnO/PDMS composite coating. <i>Applied Physics A: Materials Science and Processing</i> , 2016, 122, 1.	2.3	170
3	In Situ Separation and Collection of Oil from Water Surface via a Novel Superoleophilic and Superhydrophobic Oil Containment Boom. <i>Langmuir</i> , 2014, 30, 1281-1289.	3.5	117
4	Effect of PDMS on the waterproofing performance and corrosion resistance of cement mortar. <i>Applied Surface Science</i> , 2020, 507, 145016.	6.1	88
5	Corrosion behavior of superhydrophobic surfaces of Ti alloys in NaCl solutions. <i>Applied Surface Science</i> , 2012, 258, 4724-4728.	6.1	81
6	Integral hydrophobic concrete without using silane. <i>Construction and Building Materials</i> , 2019, 227, 116678.	7.2	77
7	Superhydrophobic and Superoleophilic Miniature Device for the Collection of Oils from Water Surfaces. <i>Journal of Physical Chemistry C</i> , 2014, 118, 6344-6351.	3.1	66
8	Icing behavior of water droplets impinging on cold superhydrophobic surface. <i>Surface and Coatings Technology</i> , 2019, 363, 362-368.	4.8	56
9	Robust superhydrophobic fabric via UV-accelerated atmospheric deposition of polydopamine and silver nanoparticles for solar evaporation and water/oil separation. <i>Chemical Engineering Journal</i> , 2022, 429, 132539.	12.7	56
10	Cement based superhydrophobic coating with excellent robustness and solar reflective ability. <i>Journal of Alloys and Compounds</i> , 2020, 823, 153702.	5.5	49
11	Washable and antibacterial superhydrophobic fabric. <i>Applied Surface Science</i> , 2016, 364, 81-85.	6.1	47
12	Anti-bacterial superhydrophobic silver on diverse substrates based on the mussel-inspired polydopamine. <i>Surface and Coatings Technology</i> , 2015, 280, 378-383.	4.8	44
13	Novel All-Natural Material for Oil/Water Separation. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 1924-1931.	3.7	41
14	Fabrication and Tribological Investigation of a Novel Hydrophobic Polydopamine/Graphene Oxide Multilayer Film. <i>Tribology Letters</i> , 2012, 48, 407-415.	2.6	37
15	Green Approach to the Fabrication of Superhydrophobic Mesh Surface for Oil/Water Separation. <i>ChemPhysChem</i> , 2015, 16, 2237-2243.	2.1	37
16	Low temperature self-cleaning properties of superhydrophobic surfaces. <i>Applied Surface Science</i> , 2014, 317, 1107-1112.	6.1	35
17	Superhydrophobic fibers from cigarette filters for oil spill cleanup. <i>RSC Advances</i> , 2016, 6, 44469-44474.	3.6	31
18	Durable Superhydrophobic Wood via One-Step Immersion in Composite Silane Solution. <i>ACS Omega</i> , 2021, 6, 7266-7274.	3.5	31

#	ARTICLE	IF	CITATIONS
19	Methyltrimethoxysilane as a multipurpose chemical for durable superhydrophobic cotton fabric. <i>Progress in Organic Coatings</i> , 2020, 146, 105700.	3.9	30
20	Preparation and properties of foundry dust/Portland cement based composites and superhydrophobic coatings. <i>Construction and Building Materials</i> , 2020, 246, 118466.	7.2	30
21	Superhydrophobic Calcium Aluminate Cement with Super Mechanical Stability. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 10373-10382.	3.7	29
22	A renewable and biodegradable all-biomass material for the separation of oil from water surface. <i>Surface and Coatings Technology</i> , 2019, 372, 84-92.	4.8	29
23	Reversible wettability between superhydrophobicity and superhydrophilicity of Ag surface. <i>Science China Materials</i> , 2016, 59, 348-354.	6.3	28
24	Construction and corrosion behaviors of a bilayer superhydrophobic film on copper substrate. <i>Surface and Interface Analysis</i> , 2013, 45, 698-704.	1.8	27
25	Mechanically durable superhydrophobic surfaces prepared by abrading. <i>Journal of Applied Physics</i> , 2013, 114, 124902.	2.5	25
26	Sessile droplet freezing and ice adhesion on aluminum with different surface wettability and surface temperature. <i>Science China: Physics, Mechanics and Astronomy</i> , 2015, 58, 1-8.	5.1	25
27	Rapid preparation of superhydrophobic surface on cement stone. <i>Applied Physics A: Materials Science and Processing</i> , 2019, 125, 1.	2.3	20
28	A superhydrophobic and superoleophilic miniature mesh box for oil spill clean up. <i>New Journal of Chemistry</i> , 2014, 38, 4388.	2.8	19
29	Fast fabrication of superhydrophobic surfaces on hardened cement paste using sodium laurate aqueous solution. <i>Construction and Building Materials</i> , 2021, 278, 122385.	7.2	19
30	Silver ions anchored to fabric via coordination: Evaluation on washing durability and antibacterial activity. <i>Materials Letters</i> , 2019, 237, 134-136.	2.6	17
31	Anti-icing performance of transparent and superhydrophobic surface under wind action. <i>Journal of Sol-Gel Science and Technology</i> , 2015, 75, 625-634.	2.4	16
32	Mechanical Properties of Natural Rubber Filled with Foundry Waste Derived Fillers. <i>Materials</i> , 2019, 12, 1863.	2.9	16
33	Grain-oriented sodium bismuth titanate-based lead-free piezoelectric ceramics prepared using the pulsed strong magnetic field and template grain growth. <i>Journal of Applied Physics</i> , 2010, 108, 073535.	2.5	15
34	On the correlation between surface morphology and electron work function of indium tin oxide. <i>Journal of Applied Physics</i> , 2012, 111, 123714.	2.5	15
35	Lightning rod effect in surface work function of semiconductor nanomaterials. <i>Applied Physics Letters</i> , 2013, 102, .	3.3	15
36	A simple and effective way to fabricate mechanical robust superhydrophobic surfaces. <i>RSC Advances</i> , 2016, 6, 28563-28569.	3.6	15

#	ARTICLE	IF	CITATIONS
37	Preparation and dielectric properties of Ba _{0.95} Ca _{0.05} Ti _{0.8} Zr _{0.2} O ₃ -polyethersulfone composites. <i>Journal of Applied Physics</i> , 2010, 107, .	2.5	14
38	Superhydrophobic ceria on aluminum and its corrosion resistance. <i>Surface and Interface Analysis</i> , 2016, 48, 173-178.	1.8	14
39	Thermochromic superhydrophobic coatings for building energy conservation. <i>Energy and Buildings</i> , 2021, 251, 111374.	6.7	13
40	Textile with Janus wetting properties via copper deposition and subsequent chemical vapor deposition of 1-dodecanethiol. <i>Materials Letters</i> , 2019, 251, 5-7.	2.6	12
41	Icing of static and high-speed water droplets on superhydrophobic surface. <i>Materials Letters</i> , 2021, 285, 129048.	2.6	12
42	Unexpected superhydrophobic polydopamine on cotton fabric. <i>Progress in Organic Coatings</i> , 2020, 147, 105777.	3.9	11
43	Superhydrophobic surface on copper via a one-step solvent-free process and its application in oil spill collection. <i>RSC Advances</i> , 2015, 5, 49459-49465.	3.6	10
44	Solar reflective coatings with luminescence and self-cleaning function. <i>Surfaces and Interfaces</i> , 2021, 26, 101325.	3.0	9
45	Polymerization of ethylene using a nickel β -diimine complex covalently supported on SiO ₂ @MgCl ₂ bisupport. <i>Polymer Bulletin</i> , 2010, 65, 767-777.	3.3	7
46	Fabrication and Properties of Thermochromic Superhydrophobic Coatings. <i>Advanced Engineering Materials</i> , 2022, 24, 2100647.	3.5	6
47	Junction-free copper wires with submicron linewidth for large-area high-performance transparent electrodes. <i>Journal of Materials Chemistry C</i> , 2019, 7, 6144-6151.	5.5	4
48	Facile preparation and strong adhesive strength of honeycomb polyurethane films with small pore diameter. <i>Journal of Applied Polymer Science</i> , 2021, 138, 49657.	2.6	4
49	Tribological behaviors of a novel trilayer nanofilm: the influence of outer chain length and interlayer thickness. <i>Surface and Interface Analysis</i> , 2013, 45, 1182-1187.	1.8	3
50	Liquid-phase Deposition of Titanium Oxide Film on Silicon Substrate Mediated by Polydopamine. <i>Chemistry Letters</i> , 2012, 41, 669-671.	1.3	1
51	Permeabilities and Mechanical Properties of Hardened Cement Pastes Modified with Sodium Laurate and Nano Silica. <i>Materials</i> , 2020, 13, 4867.	2.9	1