

Fuchao Yang

List of Publications by Year in descending order

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41
papers

1,098
citations

361045

20
h-index

395343

33
g-index

55
all docs

55
docs citations

55
times ranked

1618
citing authors

#	ARTICLE	IF	CITATIONS
1	Achieving sandwich-like laminated composite materials for robust superhydrophobicity, rapid photochromism and photo-mask writable media. <i>Materials Chemistry Frontiers</i> , 2022, 6, 623-632.	3.2	3
2	Twofold bioinspiration of TiO ₂ -PDA hybrid fabrics with desirable robustness and remarkable polar/nonpolar liquid separation performance. <i>Frontiers of Materials Science</i> , 2021, 15, 124-137.	1.1	5
3	Gecko foot-inspired reduced graphene oxide surface with multi-resistant, nonpolar/polar separation and reliable adhesion utility. <i>Journal of Materials Science</i> , 2021, 56, 7372-7385.	1.7	5
4	Bioinspired surfaces with special micro-structures and wettability for drag reduction: which surface design will be a better choice?. <i>Nanoscale</i> , 2021, 13, 3463-3482.	2.8	40
5	The intrigue of directional water collection interface: mechanisms and strategies. <i>Journal of Materials Chemistry A</i> , 2021, 9, 22729-22758.	5.2	9
6	Facile fabrication of hierarchical MoS ₂ architecture with efficient polar/nonpolar liquid separation and desirable corrosion resistance. <i>Materials Letters</i> , 2020, 258, 126821.	1.3	2
7	New insights into unusual droplets: from mediating the wettability to manipulating the locomotion modes. <i>Chemical Communications</i> , 2020, 56, 14757-14788.	2.2	18
8	The highly-efficient light-emitting diodes based on transition metal dichalcogenides: from architecture to performance. <i>Nanoscale Advances</i> , 2020, 2, 4323-4340.	2.2	41
9	Bionic smart recycled paper endowed with amphiphobic, photochromic, and UV rewritable properties. <i>Nanoscale Advances</i> , 2020, 2, 4813-4821.	2.2	6
10	Site-specific Positioning of MoS ₂ on Fabric Weaves by Post Treatment or <i>In-situ</i> Method for Hydrophobic Stability and Photoluminescence Enhancement. <i>Chemistry Letters</i> , 2020, 49, 1376-1378.	0.7	0
11	The elaboration of multifunctional hollow core-shell Fe ₃ O ₄ @PDA@TiO ₂ architecture with dual magnetic- and photo-responsive performance. <i>New Journal of Chemistry</i> , 2020, 44, 3487-3492.	1.4	13
12	Integration of bubble phobicity, gas sensing and friction alleviation into a versatile MoS ₂ /SnO ₂ /CNF heterostructure by an impressive, simple and effective method. <i>Nanoscale</i> , 2020, 12, 18629-18639.	2.8	2
13	A facile coating with water-repellent and flame-retardant properties on cotton fabric. <i>New Journal of Chemistry</i> , 2019, 43, 10183-10189.	1.4	27
14	Facile fabrication of superhydrophobic filter paper with high water adhesion. <i>Materials Letters</i> , 2019, 236, 732-735.	1.3	21
15	Fabrication of inorganic-organic hybrid TiO ₂ @PDA@CuO composite nanoparticles and its special wettable, gas sensing and photocatalytic behaviors. <i>Materials Letters</i> , 2018, 217, 320-323.	1.3	7
16	Characteristics of binary WO ₃ @CuO and ternary WO ₃ @PDA@CuO based on impressive sensing acetone odor. <i>Journal of Colloid and Interface Science</i> , 2018, 524, 32-41.	5.0	24
17	A probe into the surface and interface phenomenon of WO ₃ endowing with superwettability and super gas sensing ability. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 537, 44-52.	2.3	1
18	Stable Janus superhydrophilic/hydrophobic nickel foam for directional water transport. <i>Journal of Colloid and Interface Science</i> , 2018, 509, 346-352.	5.0	34

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19	The chitosan hydrogels: from structure to function. <i>New Journal of Chemistry</i> , 2018, 42, 17162-17180.	1.4	113
20	A Bio-design of Superhydrophobic Nano-coating from ZnO and Studies of Its Green Photoluminescence Inspired by Lotus Leaf. <i>Chemistry Letters</i> , 2018, 47, 872-874.	0.7	8
21	Green fabrication of coloured superhydrophobic paper from native cotton cellulose. <i>Journal of Colloid and Interface Science</i> , 2017, 497, 284-289.	5.0	45
22	A novel polyacrylonitrile membrane with a high flux for emulsified oil/water separation. <i>Separation and Purification Technology</i> , 2017, 184, 72-78.	3.9	80
23	Different post-treatment processes and different gas sensing behaviors of hierarchical hollow tungsten trioxide shell. <i>Materials Letters</i> , 2017, 203, 93-96.	1.3	4
24	Bio-inspired one-pot route to prepare robust and repairable micro-nanoscale superhydrophobic coatings. <i>Journal of Colloid and Interface Science</i> , 2017, 498, 182-193.	5.0	30
25	Bio-inspired design of a transparent TiO ₂ /SiO ₂ composite gel coating with adjustable wettability. <i>Journal of Materials Science</i> , 2016, 51, 7545-7553.	1.7	12
26	Hybrid MWCNTs membrane with well-tunable wettability. <i>Journal of Colloid and Interface Science</i> , 2016, 484, 173-182.	5.0	7
27	High-efficiency water collection on biomimetic material with superwetable patterns. <i>Chemical Communications</i> , 2016, 52, 12415-12417.	2.2	82
28	Engineering NiO sensitive materials and its ultra-selective detection of benzaldehyde. <i>Journal of Colloid and Interface Science</i> , 2016, 467, 192-202.	5.0	36
29	Fabrication of stable and durable superhydrophobic surface on copper substrates for oil/water separation and ice-over delay. <i>Journal of Colloid and Interface Science</i> , 2016, 466, 36-43.	5.0	96
30	Tuning SnO ₂ architectures with unitary or composite microstructure for the application of gas sensors. <i>Journal of Colloid and Interface Science</i> , 2016, 462, 140-147.	5.0	21
31	Chapter 9. Advances in Oil/Water Separation of Biomimetic Superhydrophobic Coatings. <i>RSC Smart Materials</i> , 2016, , 245-272.	0.1	1
32	Comparison of the enhanced gas sensing properties of tin dioxide samples doped with different catalytic transition elements. <i>Journal of Colloid and Interface Science</i> , 2015, 448, 265-274.	5.0	33
33	A facile approach to transform stainless steel mesh into pH-responsive smart material. <i>RSC Advances</i> , 2015, 5, 13635-13642.	1.7	12
34	Characterization of Micro-Morphology and Wettability of Lotus Leaf, Waterlily Leaf and Biomimetic ZnO Surface. <i>Journal of Bionic Engineering</i> , 2015, 12, 88-97.	2.7	30
35	Design and understanding of a high-performance gas sensing material based on copper oxide nanowires exfoliated from a copper mesh substrate. <i>Journal of Materials Chemistry A</i> , 2015, 3, 20477-20481.	5.2	30
36	Characterization of electrospun Pr-doped ZnO nanostructure for acetic acid sensor. <i>Sensors and Actuators B: Chemical</i> , 2014, 193, 326-333.	4.0	79

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37	Facile fabrication of core shell Fe ₃ O ₄ @polydopamine microspheres with unique features of magnetic control behavior and special wettability. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014, 463, 101-109.	2.3	31
38	Effects of substrate temperature on the growth orientation and optical properties of ZnO:Fe films synthesized via magnetron sputtering. <i>Journal of Alloys and Compounds</i> , 2013, 574, 149-154.	2.8	31
39	The evolution behavior of microstructures and optical properties of ZnO films using a Ti buffer layer. <i>Ceramics International</i> , 2013, 39, 7993-7999.	2.3	14
40	Evaluation of substrate material and Cu-doping effect on the microstructural and optical behavior of ZnO films. <i>EPJ Applied Physics</i> , 2013, 62, 10302.	0.3	2
41	Blue-green and red luminescence from ZnO/porous silicon and ZnO:Cu/porous silicon nanocomposite films. <i>Superlattices and Microstructures</i> , 2012, 52, 210-220.	1.4	34