

Fuchao Yang

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3066061/publications.pdf>

Version: 2024-02-01

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	The chitosan hydrogels: from structure to function. <i>New Journal of Chemistry</i> , 2018, 42, 17162-17180.	1.4	113
2	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
3	High-efficiency water collection on biomimetic material with superwetttable patterns. <i>Chemical Communications</i> , 2016, 52, 12415-12417.	2.2	82
4	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
5	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
6	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
7	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
8	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
9	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
10	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
11	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
12	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
13	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
14	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
15	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
16	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
17	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
18	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

#	ARTICLE	IF	CITATIONS
19	Characteristics of binary WO ₃ @CuO and ternary WO ₃ @PDA@CuO based on impressive sensing acetone odor. Journal of Colloid and Interface Science, 2018, 524, 32-41.	5.0	24
20	Tuning SnO ₂ architectures with unitary or composite microstructure for the application of gas sensors. Journal of Colloid and Interface Science, 2016, 462, 140-147.	5.0	21
21	Facile fabrication of superhydrophobic filter paper with high water adhesion. Materials Letters, 2019, 236, 732-735.	1.3	21
22	New insights into unusual droplets: from mediating the wettability to manipulating the locomotion modes. Chemical Communications, 2020, 56, 14757-14788.	2.2	18
23	The evolution behavior of microstructures and optical properties of ZnO films using a Ti buffer layer. Ceramics International, 2013, 39, 7993-7999.	2.3	14
24	The elaboration of multifunctional hollow core-shell Fe ₃ O ₄ @PDA@TiO ₂ architecture with dual magnetic- and photo-responsive performance. New Journal of Chemistry, 2020, 44, 3487-3492.	1.4	13
25	A facile approach to transform stainless steel mesh into pH-responsive smart material. RSC Advances, 2015, 5, 13635-13642.	1.7	12
26	Bio-inspired design of a transparent TiO ₂ /SiO ₂ composite gel coating with adjustable wettability. Journal of Materials Science, 2016, 51, 7545-7553.	1.7	12
27	The intrigue of directional water collection interface: mechanisms and strategies. Journal of Materials Chemistry A, 2021, 9, 22729-22758.	5.2	9
28	A Bio-design of Superhydrophobic Nano-coating from ZnO and Studies of Its Green Photoluminescence Inspired by Lotus Leaf. Chemistry Letters, 2018, 47, 872-874.	0.7	8
29	Hybrid MWCNTs membrane with well-tunable wettability. Journal of Colloid and Interface Science, 2016, 484, 173-182.	5.0	7
30	Fabrication of inorganic-organic hybrid TiO ₂ @PDA@CuO composite nanoparticles and its special wettability, gas sensing and photocatalytic behaviors. Materials Letters, 2018, 217, 320-323.	1.3	7
31	Bionic smart recycled paper endowed with amphiphobic, photochromic, and UV rewritable properties. Nanoscale Advances, 2020, 2, 4813-4821.	2.2	6
32	Twofold bioinspiration of TiO ₂ -PDA hybrid fabrics with desirable robustness and remarkable polar/nonpolar liquid separation performance. Frontiers of Materials Science, 2021, 15, 124-137.	1.1	5
33	Gecko foot-inspired reduced graphene oxide surface with multi-resistant, nonpolar/polar separation and reliable adhesion utility. Journal of Materials Science, 2021, 56, 7372-7385.	1.7	5
34	Different post-treatment processes and different gas sensing behaviors of hierarchical hollow tungsten trioxide shell. Materials Letters, 2017, 203, 93-96.	1.3	4
35	Achieving sandwich-like laminated composite materials for robust superhydrophobicity, rapid photochromism and photo-mask writable media. Materials Chemistry Frontiers, 2022, 6, 623-632.	3.2	3
36	Evaluation of substrate material and Cu-doping effect on the microstructural and optical behavior of ZnO films. EPJ Applied Physics, 2013, 62, 10302.	0.3	2

#	ARTICLE	IF	CITATIONS
37	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
38	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
39	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
40	Chapter 9. Advances in Oil/Water Separation of Biomimetic Superhydrophobic Coatings. <i>RSC Smart Materials</i> , 2016, , 245-272.	0.1	1
41	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