Shuhui Li

List of Publications by Year
in descending order

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45 papers	6,109 citations	126907 33 h-index	243625 44 g-index
45 all docs	45 docs citations	45 times ranked	7003 citing authors

#	Article	IF	Citations
1	Magnetic responsive and flexible composite superhydrophobic photothermal film for passive anti-icing/active deicing. Chemical Engineering Journal, 2022, 427, 130922.	12.7	105
2	pH-responsive laminar WSe2 membrane with photocatalytic antifouling property for ultrafast water transport. Chemical Engineering Journal, 2022, 435, 135159.	12.7	17
3	Rational construction of superhydrophobic PDMS/PTW@cotton fabric for efficient UV/NIR light shielding. Cellulose, 2022, 29, 4673-4685.	4.9	5
4	Rational designed microstructure pressure sensors with highly sensitive and wide detection range performance. Journal of Materials Science and Technology, 2022, 130, 184-192.	10.7	22
5	Namib desert beetle inspired special patterned fabric with programmable and gradient wettability for efficient fog harvesting. Journal of Materials Science and Technology, 2021, 61, 85-92.	10.7	92
6	Photothermal and Joule heating-assisted thermal management sponge for efficient cleanup of highly viscous crude oil. Journal of Hazardous Materials, 2021, 403, 124090.	12.4	109
7	Bioinspired structural and functional designs towards interfacial solar steam generation for clean water production. Materials Chemistry Frontiers, 2021, 5, 1510-1524.	5.9	42
8	A multifunctional and environmentally-friendly method to fabricate superhydrophilic and self-healing coatings for sustainable antifogging. Chemical Engineering Journal, 2021, 409, 128228.	12.7	48
9	Solar-assisted isotropically thermoconductive sponge for highly viscous crude oil spill remediation. IScience, 2021, 24, 102665.	4.1	29
10	A sandwich-like structured superhydrophobic fabric for versatile and highly efficient emulsion separation. Separation and Purification Technology, 2021, 275, 119253.	7.9	22
11	Noble-metal-free metallic MoC combined with CdS for enhanced visible-light-driven photocatalytic hydrogen evolution. Journal of Cleaner Production, 2021, 322, 129018.	9.3	36
12	An effective and low-consumption foam finishing strategy for robust functional fabrics with on-demand special wettability. Chemical Engineering Journal, 2021, 426, 131245.	12.7	44
13	Advanced Materials with Special Wettability toward Intelligent Oily Wastewater Remediation. ACS Applied Materials & Interfaces, 2021, 13, 67-87.	8.0	190
14	Underwater, Multifunctional Superhydrophobic Sensor for Human Motion Detection. ACS Applied Materials & Interfaces, 2021, 13, 4740-4749.	8.0	63
15	Robust Superhydrophobic rGO/PPy/PDMS Coatings on a Polyurethane Sponge for Underwater Pressure and Temperature Sensing. ACS Applied Materials & Interfaces, 2021, 13, 53271-53281.	8.0	51
16	A dual-biomimetic knitted fabric with a manipulable structure and wettability for highly efficient fog harvesting. Journal of Materials Chemistry A, 2021, 10, 304-312.	10.3	24
17	TiO2 nanotube arrays decorated with Au and Bi2S3 nanoparticles for efficient Fe3+ ions detection and dye photocatalytic degradation. Journal of Materials Science and Technology, 2020, 39, 28-38.	10.7	32
18	A novel strategy for fabricating robust superhydrophobic fabrics by environmentally-friendly enzyme etching. Chemical Engineering Journal, 2019, 355, 290-298.	12.7	183

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19	Recent Progress of Polysaccharideâ€Based Hydrogel Interfaces for Wound Healing and Tissue Engineering. Advanced Materials Interfaces, 2019, 6, 1900761.	3.7	222
20	A self-roughened and biodegradable superhydrophobic coating with UV shielding, solar-induced self-healing and versatile oilâ€“water separation ability. Journal of Materials Chemistry A, 2019, 7, 2122-2128.	10.3	205
21	In vivo and in vitro efficient textile wastewater remediation by Aspergillus niger biosorbent. Nanoscale Advances, 2019, 1, 168-176.	4.6	35
22	Aerosol-assisted chemical vapour deposition of transparent superhydrophobic film by using mixed functional alkoxysilanes. Scientific Reports, 2019, 9, 7549.	3.3	41
23	Robust amphiprotic konjac glucomannan cross-linked chitosan aerogels for efficient water remediation. Cellulose, 2019, 26, 6785-6796.	4.9	16
24	Recent Advances of Multifunctional Cellulose-Based Hydrogels. Polymers and Polymeric Composites, 2019, , 37-64.	0.6	2
25	Defective black Ti3+ self-doped TiO2 and reduced graphene oxide composite nanoparticles for boosting visible-light driven photocatalytic and photoelectrochemical activity. Applied Surface Science, 2019, 467-468, 45-55.	6.1	77
26	Rational construction of highly transparent superhydrophobic coatings based on a non-particle, fluorine-free and water-rich system for versatile oil-water separation. Chemical Engineering Journal, 2018, 333, 621-629.	12.7	207
27	Mechanically Resistant and Sustainable Cellulose-Based Composite Aerogels with Excellent Flame Retardant, Sound-Absorption, and Superantiwetting Ability for Advanced Engineering Materials. ACS Sustainable Chemistry and Engineering, 2018, 6, 927-936.	6.7	120
28	Efficiently texturing hierarchical superhydrophobic fluoride-free translucent films by AACVD with excellent durability and self-cleaning ability. Journal of Materials Chemistry A, 2018, 6, 17633-17641.	10.3	99
29	Understanding the Role of Dynamic Wettability for Condensate Microdrop Selfâ€Propelling Based on Designed Superhydrophobic TiO₂ Nanostructures. Small, 2017, 13, 1600687.	10.0	101
30	Facile construction of robust fluorine-free superhydrophobic TiO 2 @fabrics with excellent anti-fouling, water-oil separation and UV-protective properties. Materials and Design, 2017, 128, 1-8.	7.0	107
31	Rational design of multi-layered superhydrophobic coating on cotton fabrics for UV shielding, self-cleaning and oil-water separation. Materials and Design, 2017, 134, 342-351.	7.0	164
32	A review on special wettability textiles: theoretical models, fabrication technologies and multifunctional applications. Journal of Materials Chemistry A, 2017, 5, 31-55.	10.3	515
33	Oneâ€dimensional TiO₂ Nanotube Photocatalysts for Solar Water Splitting. Advanced Science, 2017, 4, 1600152.	11.2	405
34	Durable antibacterial and UV-protective Ag/TiO₂@fabrics for sustainable biomedical application. International Journal of Nanomedicine, 2017, Volume 12, 2593-2606.	6.7	90
35	Robust fluorine-free superhydrophobic PDMSâ€“ormosil@fabrics for highly effective self-cleaning and efficient oilâ€“water separation. Journal of Materials Chemistry A, 2016, 4, 12179-12187.	10.3	432
36	A review of one-dimensional TiO₂nanostructured materials for environmental and energy applications. Journal of Materials Chemistry A, 2016, 4, 6772-6801.	10.3	793

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37	In situ plasmonic Ag nanoparticle anchored TiO₂ nanotube arrays as visible-light-driven photocatalysts for enhanced water splitting. Nanoscale, 2016, 8, 5226-5234.	5.6	243
38	Synthesis, modification, and photo/photoelectrocatalytic degradation applications of TiO2 nanotube arrays: a review. Nanotechnology Reviews, 2016, 5, .	5.8	118
39	Robust Flowerâ€Like TiO₂@Cotton Fabrics with Special Wettability for Effective Selfâ€Cleaning and Versatile Oil/Water Separation. Advanced Materials Interfaces, 2015, 2, 1500220.	3.7	175
40	Enhanced photocatalytic performances of n-TiO₂ nanotubes by uniform creation of pâ€“n heterojunctions with p-Bi₂O₃ quantum dots. Nanoscale, 2015, 7, 11552-11560.	5.6	117
41	Robust superhydrophobic TiO₂@fabrics for UV shielding, self-cleaning and oilâ€“water separation. Journal of Materials Chemistry A, 2015, 3, 2825-2832.	10.3	474
42	Controlled grafting superhydrophobic cellulose surface with environmentally-friendly short fluoroalkyl chains by ATRP. Materials and Design, 2015, 85, 815-822.	7.0	66
43	TiO₂ nanotube arrays loaded with reduced graphene oxide films: facile hybridization and promising photocatalytic application. Journal of Materials Chemistry A, 2015, 3, 3491-3499.	10.3	87
44	Controllable wettability and adhesion on bioinspired multifunctional TiO₂ nanostructure surfaces for liquid manipulation. Journal of Materials Chemistry A, 2014, 2, 18531-18538.	10.3	84
45	Solar-Assisted Isotropically Thermoconductive Sponge for Highly Viscous Crude Oil Spill Remediation. SSRN Electronic Journal, 0, , .	0.4	0