

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	A review of one-dimensional TiO ₂ nanostructured materials for environmental and energy applications. <i>Journal of Materials Chemistry A</i> , 2016, 4, 6772-6801.	10.3	793
2	A review on special wettability textiles: theoretical models, fabrication technologies and multifunctional applications. <i>Journal of Materials Chemistry A</i> , 2017, 5, 31-55.	10.3	515
3	Robust superhydrophobic TiO ₂ @fabrics for UV shielding, self-cleaning and oil-water separation. <i>Journal of Materials Chemistry A</i> , 2015, 3, 2825-2832.	10.3	474
4	Robust fluorine-free superhydrophobic PDMS@ormosil@fabrics for highly effective self-cleaning and efficient oil-water separation. <i>Journal of Materials Chemistry A</i> , 2016, 4, 12179-12187.	10.3	432
5	One-dimensional TiO ₂ Nanotube Photocatalysts for Solar Water Splitting. <i>Advanced Science</i> , 2017, 4, 1600152.	11.2	405
6	In situ plasmonic Ag nanoparticle anchored TiO ₂ nanotube arrays as visible-light-driven photocatalysts for enhanced water splitting. <i>Nanoscale</i> , 2016, 8, 5226-5234.	5.6	243
7	Recent Progress of Polysaccharide-Based Hydrogel Interfaces for Wound Healing and Tissue Engineering. <i>Advanced Materials Interfaces</i> , 2019, 6, 1900761.	3.7	222
8	Rational construction of highly transparent superhydrophobic coatings based on a non-particle, fluorine-free and water-rich system for versatile oil-water separation. <i>Chemical Engineering Journal</i> , 2018, 333, 621-629.	12.7	207
9	A self-roughened and biodegradable superhydrophobic coating with UV shielding, solar-induced self-healing and versatile oil-water separation ability. <i>Journal of Materials Chemistry A</i> , 2019, 7, 2122-2128.	10.3	205
10	Advanced Materials with Special Wettability toward Intelligent Oily Wastewater Remediation. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 67-87.	8.0	190
11	A novel strategy for fabricating robust superhydrophobic fabrics by environmentally-friendly enzyme etching. <i>Chemical Engineering Journal</i> , 2019, 355, 290-298.	12.7	183
12	Robust Flower-Like TiO ₂ @Cotton Fabrics with Special Wettability for Effective Self-Cleaning and Versatile Oil/Water Separation. <i>Advanced Materials Interfaces</i> , 2015, 2, 1500220.	3.7	175
13	Rational design of multi-layered superhydrophobic coating on cotton fabrics for UV shielding, self-cleaning and oil-water separation. <i>Materials and Design</i> , 2017, 134, 342-351.	7.0	164
14	Mechanically Resistant and Sustainable Cellulose-Based Composite Aerogels with Excellent Flame Retardant, Sound-Absorption, and Superantwetting Ability for Advanced Engineering Materials. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 927-936.	6.7	120
15	Synthesis, modification, and photo/photoelectrocatalytic degradation applications of TiO ₂ nanotube arrays: a review. <i>Nanotechnology Reviews</i> , 2016, 5, .	5.8	118
16	Enhanced photocatalytic performances of n-TiO ₂ nanotubes by uniform creation of p-n heterojunctions with p-Bi ₂ O ₃ quantum dots. <i>Nanoscale</i> , 2015, 7, 11552-11560.	5.6	117
17	Photothermal and Joule heating-assisted thermal management sponge for efficient cleanup of highly viscous crude oil. <i>Journal of Hazardous Materials</i> , 2021, 403, 124090.	12.4	109
18	Facile construction of robust fluorine-free superhydrophobic TiO ₂ @fabrics with excellent anti-fouling, water-oil separation and UV-protective properties. <i>Materials and Design</i> , 2017, 128, 1-8.	7.0	107

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19	Magnetic responsive and flexible composite superhydrophobic photothermal film for passive anti-icing/active deicing. <i>Chemical Engineering Journal</i> , 2022, 427, 130922.	12.7	105
20	Understanding the Role of Dynamic Wettability for Condensate Microdrop Self-Propelling Based on Designed Superhydrophobic TiO ₂ Nanostructures. <i>Small</i> , 2017, 13, 1600687.	10.0	101
21	Efficiently texturing hierarchical superhydrophobic fluoride-free translucent films by AACVD with excellent durability and self-cleaning ability. <i>Journal of Materials Chemistry A</i> , 2018, 6, 17633-17641.	10.3	99
22	Namib desert beetle inspired special patterned fabric with programmable and gradient wettability for efficient fog harvesting. <i>Journal of Materials Science and Technology</i> , 2021, 61, 85-92.	10.7	92
23	Durable antibacterial and UV-protective Ag/TiO ₂ fabrics for sustainable biomedical application. <i>International Journal of Nanomedicine</i> , 2017, Volume 12, 2593-2606.	6.7	90
24	TiO ₂ nanotube arrays loaded with reduced graphene oxide films: facile hybridization and promising photocatalytic application. <i>Journal of Materials Chemistry A</i> , 2015, 3, 3491-3499.	10.3	87
25	Controllable wettability and adhesion on bioinspired multifunctional TiO ₂ nanostructure surfaces for liquid manipulation. <i>Journal of Materials Chemistry A</i> , 2014, 2, 18531-18538.	10.3	84
26	Defective black Ti ³⁺ self-doped TiO ₂ and reduced graphene oxide composite nanoparticles for boosting visible-light driven photocatalytic and photoelectrochemical activity. <i>Applied Surface Science</i> , 2019, 467-468, 45-55.	6.1	77
27	Controlled grafting superhydrophobic cellulose surface with environmentally-friendly short fluoroalkyl chains by ATRP. <i>Materials and Design</i> , 2015, 85, 815-822.	7.0	66
28	Underwater, Multifunctional Superhydrophobic Sensor for Human Motion Detection. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 4740-4749.	8.0	63
29	Robust Superhydrophobic rGO/PPy/PDMS Coatings on a Polyurethane Sponge for Underwater Pressure and Temperature Sensing. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 53271-53281.	8.0	51
30	A multifunctional and environmentally-friendly method to fabricate superhydrophilic and self-healing coatings for sustainable antifogging. <i>Chemical Engineering Journal</i> , 2021, 409, 128228.	12.7	48
31	An effective and low-consumption foam finishing strategy for robust functional fabrics with on-demand special wettability. <i>Chemical Engineering Journal</i> , 2021, 426, 131245.	12.7	44
32	Bioinspired structural and functional designs towards interfacial solar steam generation for clean water production. <i>Materials Chemistry Frontiers</i> , 2021, 5, 1510-1524.	5.9	42
33	Aerosol-assisted chemical vapour deposition of transparent superhydrophobic film by using mixed functional alkoxy silanes. <i>Scientific Reports</i> , 2019, 9, 7549.	3.3	41
34	Noble-metal-free metallic MoC combined with CdS for enhanced visible-light-driven photocatalytic hydrogen evolution. <i>Journal of Cleaner Production</i> , 2021, 322, 129018.	9.3	36
35	<i>In vivo</i> and <i>in vitro</i> efficient textile wastewater remediation by <i>Aspergillus niger</i> biosorbent. <i>Nanoscale Advances</i> , 2019, 1, 168-176.	4.6	35
36	TiO ₂ nanotube arrays decorated with Au and Bi ₂ S ₃ nanoparticles for efficient Fe ³⁺ ions detection and dye photocatalytic degradation. <i>Journal of Materials Science and Technology</i> , 2020, 39, 28-38.	10.7	32

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37	Solar-assisted isotropically thermoconductive sponge for highly viscous crude oil spill remediation. <i>IScience</i> , 2021, 24, 102665.	4.1	29
38	A dual-biomimetic knitted fabric with a manipulable structure and wettability for highly efficient fog harvesting. <i>Journal of Materials Chemistry A</i> , 2021, 10, 304-312.	10.3	24
39	A sandwich-like structured superhydrophobic fabric for versatile and highly efficient emulsion separation. <i>Separation and Purification Technology</i> , 2021, 275, 119253.	7.9	22
40	Rational designed microstructure pressure sensors with highly sensitive and wide detection range performance. <i>Journal of Materials Science and Technology</i> , 2022, 130, 184-192.	10.7	22
41	pH-responsive laminar WSe ₂ membrane with photocatalytic antifouling property for ultrafast water transport. <i>Chemical Engineering Journal</i> , 2022, 435, 135159.	12.7	17
42	Robust amphiprotic konjac glucomannan cross-linked chitosan aerogels for efficient water remediation. <i>Cellulose</i> , 2019, 26, 6785-6796.	4.9	16
43	Rational construction of superhydrophobic PDMS/PTW@ cotton fabric for efficient UV/NIR light shielding. <i>Cellulose</i> , 2022, 29, 4673-4685.	4.9	5
44	Recent Advances of Multifunctional Cellulose-Based Hydrogels. <i>Polymers and Polymeric Composites</i> , 2019, , 37-64.	0.6	2
45	Solar-Assisted Isotropically Thermoconductive Sponge for Highly Viscous Crude Oil Spill Remediation. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0