Yue-kun Lai

List of Publications by Year
in descending order

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203	20,736	5896	10734
papers	citations	81 h-index	138 g-index

213	213	213	20390
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Flexible electrochromic fiber with rapid color switching and high optical modulation. Nano Research, 2023, 16, 5473-5479.	10.4	16
2	Advances in particulate matter filtration: Materials, performance, and application. Green Energy and Environment, 2023, 8, 673-697.	8.7	37
3	A robust and transparent hydrogel coating for sustainable antifogging with excellent self-cleaning and self-healing ability. Chemical Engineering Journal, 2023, 451, 137879.	12.7	27
4	Magnetic responsive and flexible composite superhydrophobic photothermal film for passive anti-icing/active deicing. Chemical Engineering Journal, 2022, 427, 130922.	12.7	105
5	Superwetting patterned PDMS/PMMA materials by facile one-step electro-spraying for signal expression and liquid transportation. Chemical Engineering Journal, 2022, 431, 133206.	12.7	11
6	Surface plasmon resonance metal-coupled biomass carbon modified TiO2 nanorods for photoelectrochemical water splitting. Chinese Journal of Chemical Engineering, 2022, 41, 403-411.	3.5	14
7	A superhydrophobic TPU/CNTs@SiO2 coating with excellent mechanical durability and chemical stability for sustainable anti-fouling and anti-corrosion. Chemical Engineering Journal, 2022, 434, 134605.	12.7	66
8	Smart surfaces with reversibly switchable wettability: Concepts, synthesis and applications. Advances in Colloid and Interface Science, 2022, 300, 102584.	14.7	33
9	One-pot loading of cadmium sulfide onto tungsten carbide for efficient photocatalytic H2 evolution under visible light irradiation. Chemical Engineering Journal, 2022, 434, 134689.	12.7	35
10	In Operando Neutron Scattering Multipleâ€Scale Studies of Lithiumâ€Ion Batteries. Small, 2022, 18, e2107491.	10.0	11
11	Fog Harvesting Devices Inspired from Single to Multiple Creatures: Current Progress and Future Perspective. Advanced Functional Materials, 2022, 32, .	14.9	62
12	Hydrogel materials for sustainable water resources harvesting & treatment: Synthesis, mechanism and applications. Chemical Engineering Journal, 2022, 439, 135756.	12.7	75
13	A polyester-silica anti-condensation surface with anti-fouling property. Chemical Engineering Journal, 2022, 440, 135934.	12.7	9
14	Ion regulation of hollow nickel cobalt layered double hydroxide nanocages derived from ZIF-67 for High-Performance supercapacitors. Applied Surface Science, 2022, 596, 153582.	6.1	41
15	Rational design of electrospun nanofibers for gas purification: Principles, opportunities, and challenges. Chemical Engineering Journal, 2022, 446, 137099.	12.7	27
16	Deformation and breakup of water droplets containing polymer under a <scp>DC</scp> electric field. AICHE Journal, 2022, 68, .	3.6	7
17	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
18	Hydroxyapatite-modified micro/nanostructured titania surfaces with different crystalline phases for osteoblast regulation. Bioactive Materials, 2021, 6, 1118-1129.	15.6	38

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19	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
20	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
21	Recent advances in fabricating durable superhydrophobic surfaces: a review in the aspects of structures and materials. Materials Chemistry Frontiers, 2021, 5, 1655-1682.	5.9	94
22	Rational designed structured superhydrophobic iron oxide surface towards sustainable anti-corrosion and self-cleaning. Chemical Engineering Journal, 2021, 416, 127768.	12.7	34
23	Freestanding MoS2@carbonized cellulose aerogel derived from waste cotton for sustainable and highly efficient particulate matter capturing. Separation and Purification Technology, 2021, 254, 117571.	7.9	23
24	Bioinspired structural and functional designs towards interfacial solar steam generation for clean water production. Materials Chemistry Frontiers, 2021, 5, 1510-1524.	5.9	42
25	Heterostructured Ternary In₂O₃â^'Agâ^'TiO₂ Nanotube Arrays for Simulated Sunlightâ€Driven Photoelectrocatalytic Hydrogen Generation. ChemElectroChem, 2021, 8, 577-584.	3.4	7
26	Recent Advances in Siliconâ€Based Electrodes: From Fundamental Research toward Practical Applications. Advanced Materials, 2021, 33, e2004577.	21.0	168
27	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
28	Hexagonal WO3Â·0.33H2O Hierarchical Microstructure with Efficient Photocatalytic Degradation Activity. Catalysts, 2021, 11, 496.	3.5	8
29	In-situ formation of unsaturated defect sites on converted CoNi alloy/Co-Ni LDH to activate MoS2 nanosheets for pH-universal hydrogen evolution reaction. Chemical Engineering Journal, 2021, 412, 128556.	12.7	80
30	Solar-assisted isotropically thermoconductive sponge for highly viscous crude oil spill remediation. IScience, 2021, 24, 102665.	4.1	29
31	Experimental investigation of the anti-soiling performances of different wettability of transparent coatings: Superhydrophilic, hydrophilic, hydrophobic and superhydrophobic coatings. Solar Energy Materials and Solar Cells, 2021, 225, 111053.	6.2	33
32	Coupled porosity and heterojunction engineering: MOF-derived porous Co3O4 embedded on TiO2 nanotube arrays for water remediation. Chemosphere, 2021, 274, 129799.	8.2	5
33	Interfacial reinforcement structure design towards ultrastable lithium storage in MoS2-based composited electrode. Chemical Engineering Journal, 2021, 416, 129094.	12.7	36
34	Exfoliation of 2D materials by saponin in water: Aerogel adsorption / photodegradation organic dye. Chemosphere, 2021, 274, 129795.	8.2	15
35	Fog catcher brushes with environmental friendly slippery alumina micro-needle structured surface for efficient fog-harvesting. Journal of Cleaner Production, 2021, 315, 127862.	9.3	32
36	A sandwich-like structured superhydrophobic fabric for versatile and highly efficient emulsion separation. Separation and Purification Technology, 2021, 275, 119253.	7.9	22

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37	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
38	Molybdenum sulfide cocatalyst activation upon photodeposition of cobalt for improved photocatalytic hydrogen production activity of ZnCdS. Chemical Engineering Journal, 2021, 425, 131478.	12.7	72
39	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
40	In situ recycling of particulate matter for a high-performance supercapacitor and oxygen evolution reaction. Materials Chemistry Frontiers, 2021, 5, 2742-2748.	5.9	1
41	Advanced Materials with Special Wettability toward Intelligent Oily Wastewater Remediation. ACS Applied Materials & Interfaces, 2021, 13, 67-87.	8.0	190
42	Underwater, Multifunctional Superhydrophobic Sensor for Human Motion Detection. ACS Applied Materials & Interfaces, 2021, 13, 4740-4749.	8.0	63
43	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
44	An environmentally friendly fluorine-free sandwich coating based on a nonwoven fabric for efficient unidirectional water transport. Chemical Communications, 2021, 57, 12623-12626.	4.1	8
45	Durable easy-cleaning and antibacterial cotton fabrics using fluorine-free silane coupling agents and CuO nanoparticles. Nano Materials Science, 2020, 2, 281-291.	8.8	39
46	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
47	A â€œPDMS-in-waterâ€•emulsion enables mechanochemically robust superhydrophobic surfaces with self-healing nature. Nanoscale Horizons, 2020, 5, 65-73.	8.0	193
48	Constructing Mechanochemical Durable and Self-Healing Superhydrophobic Surfaces. ACS Omega, 2020, 5, 986-994.	3.5	79
49	Progress on particulate matter filtration technology: basic concepts, advanced materials, and performances. Nanoscale, 2020, 12, 437-453.	5.6	145
50	A semi-interpenetrating network ionic hydrogel for strain sensing with high sensitivity, large strain range, and stable cycle performance. Chemical Engineering Journal, 2020, 385, 123912.	12.7	128
51	In-situ synthesis of monodispersed Cu O heterostructure on porous carbon monolith for exceptional removal of gaseous Hg0. Applied Catalysis B: Environmental, 2020, 265, 118556.	20.2	32
52	Metalâ€“organic frameworks and their derivatives with graphene composites: preparation and applications in electrocatalysis and photocatalysis. Journal of Materials Chemistry A, 2020, 8, 2934-2961.	10.3	170
53	Silk fibroin-derived nitrogen-doped carbon quantum dots anchored on TiO2 nanotube arrays for heterogeneous photocatalytic degradation and water splitting. Nano Energy, 2020, 78, 105313.	16.0	100
54	A transparent superhydrophobic coating with mechanochemical robustness for anti-icing, photocatalysis and self-cleaning. Chemical Engineering Journal, 2020, 399, 125746.	12.7	264

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55	Mechanically Reinforced Localized Structure Design to Stabilize Solidâ€“Electrolyte Interface of the Composited Electrode of Si Nanoparticles and TiO₂ Nanotubes. Small, 2020, 16, e2002094.	10.0	41
56	Vertically-aligned Pt-decorated MoS2 nanosheets coated on TiO2 nanotube arrays enable high-efficiency solar-light energy utilization for photocatalysis and self-cleaning SERS devices. Nano Energy, 2020, 71, 104579.	16.0	92
57	Reducing Oxygen Evolution Reaction Overpotential in Cobaltâ€Based Electrocatalysts via Optimizing the â€œMicroparticlesâ€inâ€Spider Webâ€•Electrode Configurations. Small, 2020, 16, e1907029.	10.0	34
58	Nanostructured TiO2 for light-driven CO2 conversion into solar fuels. APL Materials, 2020, 8, .	5.1	22
59	Charged graphene aerogel filter enabled superior particulate matter removal efficiency in harsh environment. Chemical Engineering Journal, 2020, 395, 125086.	12.7	53
60	A novel strategy for fabricating robust superhydrophobic fabrics by environmentally-friendly enzyme etching. Chemical Engineering Journal, 2019, 355, 290-298.	12.7	183
61	Transparent Antibacterial Nanofiber Air Filters with Highly Efficient Moisture Resistance for Sustainable Particulate Matter Capture. IScience, 2019, 19, 214-223.	4.1	100
62	Recent Progress of Polysaccharideâ€Based Hydrogel Interfaces for Wound Healing and Tissue Engineering. Advanced Materials Interfaces, 2019, 6, 1900761.	3.7	222
63	Rapid and Controllable Design of Robust Superwettable Microchips by a Click Reaction for Efficient o-Phthalaldehyde and Glucose Detection. ACS Biomaterials Science and Engineering, 2019, 5, 6186-6195.	5.2	5
64	Hydrogen Production: Light-Driven Sustainable Hydrogen Production Utilizing TiO2 Nanostructures: A Review (Small Methods 1/2019). Small Methods, 2019, 3, 1800053.	8.6	7
65	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
66	In vivo and in vitro efficient textile wastewater remediation by Aspergillus niger biosorbent. Nanoscale Advances, 2019, 1, 168-176.	4.6	35
67	Crafting Musselâ€Inspired Metal Nanoparticleâ€Decorated Ultrathin Graphitic Carbon Nitride for the Degradation of Chemical Pollutants and Production of Chemical Resources. Advanced Materials, 2019, 31, e1806314.	21.0	239
68	Particulate Matter Capturing via Naturally Dried ZIF-8/Graphene Aerogels under Harsh Conditions. IScience, 2019, 16, 133-144.	4.1	60
69	Robust amphiprotic konjac glucomannan cross-linked chitosan aerogels for efficient water remediation. Cellulose, 2019, 26, 6785-6796.	4.9	16
70	4D printing and stimuli-responsive materials in biomedical aspects. Acta Biomaterialia, 2019, 92, 19-36.	8.3	191
71	Green Synthesis of Robust Superhydrophobic Antibacterial and UVâ€Blocking Cotton Fabrics by a Dualâ€Stage Silanization Approach. Advanced Materials Interfaces, 2019, 6, 1900032.	3.7	46
72	Icephobic materials: Fundamentals, performance evaluation, and applications. Progress in Materials Science, 2019, 103, 509-557.	32.8	258

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73	Environmental Remediation: Crafting Musselâ€Inspired Metal Nanoparticleâ€Decorated Ultrathin Graphitic Carbon Nitride for the Degradation of Chemical Pollutants and Production of Chemical Resources (Adv. Mater. 15/2019). Advanced Materials, 2019, 31, 1970110.	21.0	5
74	Bioinspired Sootâ€Deposited Janus Fabrics for Sustainable Solar Steam Generation with Saltâ€Rejection. Global Challenges, 2019, 3, 1800117.	3.6	73
75	Controllable synthesis of carbon nanosheets derived from oxidative polymerisation of m-phenylenediamine. Journal of Colloid and Interface Science, 2019, 533, 437-444.	9.4	6
76	Lightâ€Driven Sustainable Hydrogen Production Utilizing TiO₂ Nanostructures: A Review. Small Methods, 2019, 3, 1800184.	8.6	118
77	Liquid mobility on superwettable surfaces for applications in energy and the environment. Journal of Materials Chemistry A, 2019, 7, 38-63.	10.3	161
78	Polydopamine-Inspired Design and Synthesis of Visible-Light-Driven Ag NPs@C@elongated TiO₂ NTs Coreâ€“Shell Nanocomposites for Sustainable Hydrogen Generation. ACS Sustainable Chemistry and Engineering, 2019, 7, 558-568.	6.7	41
79	Multifunctional superhydrophobic composite materials with remarkable mechanochemical robustness, stain repellency, oil-water separation and sound-absorption properties. Chemical Engineering Journal, 2019, 358, 1610-1619.	12.7	59
80	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
81	Progress in TiO₂ nanotube coatings for biomedical applications: a review. Journal of Materials Chemistry B, 2018, 6, 1862-1886.	5.8	121
82	MoS₂ Quantum Dots@TiO₂ Nanotube Arrays: An Extended-Spectrum-Driven Photocatalyst for Solar Hydrogen Evolution. ChemSusChem, 2018, 11, 1708-1721.	6.8	77
83	Oil/molten salt interfacial synthesis of hybrid thin carbon nanostructures and their composites. Journal of Materials Chemistry A, 2018, 6, 4988-4996.	10.3	17
84	Rational design of materials interface at nanoscale towards intelligent oilâ€“water separation. Nanoscale Horizons, 2018, 3, 235-260.	8.0	262
85	Graphene aerogels for efficient energy storage and conversion. Energy and Environmental Science, 2018, 11, 772-799.	30.8	435
86	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
87	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
88	Bioinspired Surfaces with Superamphiphobic Properties: Concepts, Synthesis, and Applications. Advanced Functional Materials, 2018, 28, 1707415.	14.9	206
89	An ultrahighly sensitive and repeatable flexible pressure sensor based on PVDF/PU/MWCNT hierarchical framework-structured aerogels for monitoring human activities. Journal of Materials Chemistry C, 2018, 6, 12575-12583.	5.5	27
90	Advanced colloidal lithography: From patterning to applications. Nano Today, 2018, 22, 36-61.	11.9	120

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91	Bioinspired fabrication SERS substrate based on superwettable patterned platform for multiphase high-sensitive detecting. Composites Communications, 2018, 10, 151-156.	6.3	15
92	Rational Construction of LaFeO3 Perovskite Nanoparticle-Modified TiO2 Nanotube Arrays for Visible-Light Driven Photocatalytic Activity. Coatings, 2018, 8, 374.	2.6	18
93	Oxygen-deficient bismuth tungstate and bismuth oxide composite photoanode with improved photostability. Science Bulletin, 2018, 63, 990-996.	9.0	29
94	Boosting heterojunction interaction in electrochemical construction of MoS2 quantum dots@TiO2 nanotube arrays for highly effective photoelectrochemical performance and electrocatalytic hydrogen evolution. Electrochemistry Communications, 2018, 93, 152-157.	4.7	33
95	Multidimensional TiO 2 nanostructured catalysts for sustainable H 2 generation. , 2018, , 237-288.		2
96	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
97	Co-solvent induced self-roughness superhydrophobic coatings with self-healing property for versatile oil-water separation. Applied Surface Science, 2018, 459, 512-519.	6.1	44
98	Recent advances on smart TiO₂ nanotube platforms for sustainable drug delivery applications. International Journal of Nanomedicine, 2017, Volume 12, 151-165.	6.7	97
99	Understanding the Role of Dynamic Wettability for Condensate Microdrop Selfâ€Propelling Based on Designed Superhydrophobic TiO₂ Nanostructures. Small, 2017, 13, 1600687.	10.0	101
100	Dynamic Wettability: Understanding the Role of Dynamic Wettability for Condensate Microdrop Selfâ€Propelling Based on Designed Superhydrophobic TiO₂ Nanostructures (Small 4/2017). Small, 2017, 13, .	10.0	0
101	Water Splitting: Oneâ€dimensional TiO₂ Nanotube Photocatalysts for Solar Water Splitting (Adv. Sci. 1/2017). Advanced Science, 2017, 4, .	11.2	5
102	A review of TiO 2 nanostructured catalysts for sustainable H 2 generation. International Journal of Hydrogen Energy, 2017, 42, 8418-8449.	7.1	309
103	Immobilization of Pt Nanoparticles via Rapid and Reusable Electropolymerization of Dopamine on TiO₂ Nanotube Arrays for Reversible SERS Substrates and Nonenzymatic Glucose Sensors. Small, 2017, 13, 1604240.	10.0	125
104	Controllable Superhydrophobic Coating on Cotton Fabric by UV Induced Thiolâ€ene Reaction for Wettability Patterning and Device Metallization. Advanced Materials Interfaces, 2017, 4, 1700268.	3.7	27
105	Constructing multifunctional MOF@rGO hydro-/aerogels by the self-assembly process for customized water remediation. Journal of Materials Chemistry A, 2017, 5, 11873-11881.	10.3	206
106	3D Au-decorated BiMoO₆ nanosheet/TiO₂ nanotube array heterostructure with enhanced UV and visible-light photocatalytic activity. Journal of Materials Chemistry A, 2017, 5, 16412-16421.	10.3	150
107	Bioinspired Mechanoâ€Sensitive Macroporous Ceramic Sponge for Logical Drug and Cell Delivery. Advanced Science, 2017, 4, 1600410.	11.2	21
108	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

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109	Sub-micron silk fibroin film with high humidity sensibility through color changing. RSC Advances, 2017, 7, 17889-17897.	3.6	66
110	Multifunctional superamphiphobic fabrics with asymmetric wettability for one-way fluid transport and templated patterning. Cellulose, 2017, 24, 1129-1141.	4.9	46
111	Bioinspired Special Wettability Surfaces: From Fundamental Research to Water Harvesting Applications. Small, 2017, 13, 1602992.	10.0	259
112	Uniform carbon dots@TiO₂ nanotube arrays with full spectrum wavelength light activation for efficient dye degradation and overall water splitting. Nanoscale, 2017, 9, 16046-16058.	5.6	100
113	Bioinspired Surfaces with Superwettability for Antiâ€Icing and Iceâ€Phobic Application: Concept, Mechanism, and Design. Small, 2017, 13, 1701867.	10.0	223
114	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
115	Robust translucent superhydrophobic PDMS/PMMA film by facile one-step spray for self-cleaning and efficient emulsion separation. Chemical Engineering Journal, 2017, 330, 26-35.	12.7	228
116	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
117	Oneâ€dimensional TiO₂ Nanotube Photocatalysts for Solar Water Splitting. Advanced Science, 2017, 4, 1600152.	11.2	405
118	Durable antibacterial and UV-protective Ag/TiO₂@fabrics for sustainable biomedical application. International Journal of Nanomedicine, 2017, Volume 12, 2593-2606.	6.7	90
119	Recent Progress in Fabrication and Applications of Superhydrophobic Coating on Cellulose-Based Substrates. Materials, 2016, 9, 124.	2.9	99
120	TiO₂ nanotube platforms for smart drug delivery: a review. International Journal of Nanomedicine, 2016, Volume 11, 4819-4834.	6.7	113
121	Smart Drug Delivery Strategies Based on Porous Nanostructure Materials. , 2016, , .		2
122	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
123	Wettability: Recent Advances in TiO2-Based Nanostructured Surfaces with Controllable Wettability and Adhesion (Small 16/2016). Small, 2016, 12, 2248-2248.	10.0	3
124	Uniform spatial distribution of a nanostructured Ag/AgCl plasmonic photocatalyst and its segregative membrane towards visible light-driven photodegradation. CrystEngComm, 2016, 18, 3725-3733.	2.6	10
125	Highly Flexible and Porous Nanoparticle-Loaded Films for Dye Removal by Graphene Oxideâ€“Fungus Interaction. ACS Applied Materials & Interfaces, 2016, 8, 34638-34647.	8.0	63
126	Conductive Inks Based on a Lithium Titanate Nanotube Gel for Highâ€Rate Lithiumâ€Ion Batteries with Customized Configuration. Advanced Materials, 2016, 28, 1567-1576.	21.0	178

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127	Recent Advances in TiO₂â€Based Nanostructured Surfaces with Controllable Wettability and Adhesion. Small, 2016, 12, 2203-2224.	10.0	278
128	A review of one-dimensional TiO₂nanostructured materials for environmental and energy applications. Journal of Materials Chemistry A, 2016, 4, 6772-6801.	10.3	793
129	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
130	Micropatterning Extracellular Matrix Proteins on Electrospun Fibrous Substrate Promote Human Mesenchymal Stem Cell Differentiation Toward Neurogenic Lineage. ACS Applied Materials & Interfaces, 2016, 8, 563-573.	8.0	31
131	Synthesis, modification, and photo/photoelectrocatalytic degradation applications of TiO2 nanotube arrays: a review. Nanotechnology Reviews, 2016, 5, .	5.8	118
132	Recent Advances in Synthesis, Modification, and Applications of TiO2 Nanotube Arrays by Electrochemical Anodization. , 2016, , 1379-1416.		4
133	CH-Ï€ Interaction Driven Macroscopic Property Transition on Smart Polymer Surface. Scientific Reports, 2015, 5, 15742.	3.3	9
134	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
135	Multifunctional TiO₂â€Based Particles: The Effect of Fluorination Degree and Liquid Surface Tension on Wetting Behavior. Particle and Particle Systems Characterization, 2015, 32, 355-363.	2.3	20
136	Tuning the surface microstructure of titanate coatings on titanium implants for enhancing bioactivity of implants. International Journal of Nanomedicine, 2015, 10, 3887.	6.7	23
137	TiO₂-Based Nanomaterials: Design, Synthesis, and Applications. Journal of Nanomaterials, 2015, 2015, 1-3.	2.7	7
138	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
139	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
140	Fibrous and flexible supercapacitors comprising hierarchical nanostructures with carbon spheres and graphene oxide nanosheets. Journal of Materials Chemistry A, 2015, 3, 12761-12768.	10.3	41
141	Bioinspired Porous Octacalcium Phosphate/Silk Fibroin Composite Coating Materials Prepared by Electrochemical Deposition. ACS Applied Materials & Interfaces, 2015, 7, 5634-5642.	8.0	49
142	Flame retardance and thermal stability of wool fabric treated by boron containing silica sols. Materials and Design, 2015, 85, 796-799.	7.0	48
143	Recent Advances in Synthesis, Modification and Applications of TiO2 Nanotube Arrays by Electrochemical Anodization. , 2015, , 1-33.		0
144	Titanate and titania nanostructured materials for environmental and energy applications: a review. RSC Advances, 2015, 5, 79479-79510.	3.6	247

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145	Controlled grafting superhydrophobic cellulose surface with environmentally-friendly short fluoroalkyl chains by ATRP. Materials and Design, 2015, 85, 815-822.	7.0	66
146	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
147	Multifunctional wettability patterns prepared by laser processing on superhydrophobic TiO₂nanostructured surfaces. Journal of Materials Chemistry B, 2015, 3, 342-347.	5.8	72
148	Hierarchical SiO₂@Bi₂O₃ core/shell electrospun fibers for infrared stealth camouflage. Journal of Materials Chemistry C, 2015, 3, 345-351.	5.5	54
149	Multifunctional Superamphiphobic TiO₂ Nanostructure Surfaces with Facile Wettability and Adhesion Engineering. Small, 2014, 10, 4865-4873.	10.0	113
150	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
151	Topographic effect on human induced pluripotent stem cells differentiation towards neuronal lineage. Biomaterials, 2013, 34, 8131-8139.	11.4	108
152	Bioinspired Patterning with Extreme Wettability Contrast on TiO₂ Nanotube Array Surface: A Versatile Platform for Biomedical Applications. Small, 2013, 9, 2945-2953.	10.0	159
153	Nanotube Arrays: Bioinspired Patterning with Extreme Wettability Contrast on TiO2Nanotube Array Surface: A Versatile Platform for Biomedical Applications (Small 17/2013). Small, 2013, 9, 3004-3004.	10.0	0
154	In Situ Surfaceâ€Modificationâ€Induced Superhydrophobic Patterns with Reversible Wettability and Adhesion. Advanced Materials, 2013, 25, 1682-1686.	21.0	249
155	Understanding the Role of Nanostructures for Efficient Hydrogen Generation on Immobilized Photocatalysts. Advanced Energy Materials, 2013, 3, 1368-1380.	19.5	122
156	Optimized porous rutile TiO2 nanorod arrays for enhancing the efficiency of dye-sensitized solar cells. Energy and Environmental Science, 2013, 6, 1615.	30.8	160
157	Bioinspired TiO2 Nanostructure Films with Special Wettability and Adhesion for Droplets Manipulation and Patterning. Scientific Reports, 2013, 3, 3009.	3.3	64
158	Nanotube Arrays: In Situ Surfaceâ€Modificationâ€Induced Superhydrophobic Patterns with Reversible Wettability and Adhesion (Adv. Mater. 12/2013). Advanced Materials, 2013, 25, 1804-1804.	21.0	2
159	Fabrication, Modification, and Emerging Applications of TiO2Nanotube Arrays by Electrochemical Synthesis: A Review. International Journal of Photoenergy, 2013, 2013, 1-19.	2.5	36
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