

Zhengzhi Mu

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

899
citations

567144

15
h-index

642610

23
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24
all docs

24
docs citations

24
times ranked

1133
citing authors

#	ARTICLE	IF	CITATIONS
1	Biomimetic multifunctional surfaces inspired from animals. <i>Advances in Colloid and Interface Science</i> , 2016, 234, 27-50.	7.0	130
2	Excellent Structure-Based Multifunction of Morpho Butterfly Wings: A Review. <i>Journal of Bionic Engineering</i> , 2015, 12, 170-189.	2.7	113
3	Active Antifogging Property of Monolayer SiO ₂ Film with Bioinspired Multiscale Hierarchical Pagoda Structures. <i>ACS Nano</i> , 2016, 10, 8591-8602.	7.3	92
4	Antireflective surface inspired from biology: A review. <i>Biosurface and Biotribology</i> , 2016, 2, 137-150.	0.6	83
5	Self-Assembly of Chiral Nanoparticles into Semiconductor Helices with Tunable near-Infrared Optical Activity. <i>Chemistry of Materials</i> , 2020, 32, 476-488.	3.2	79
6	Bioinspired, Omnidirectional, and Hypersensitive Flexible Strain Sensors. <i>Advanced Materials</i> , 2022, 34, e2200823.	11.1	73
7	Energy-Efficient Oil-Water Separation of Biomimetic Copper Membrane with Multiscale Hierarchical Dendritic Structures. <i>Small</i> , 2017, 13, 1701121.	5.2	49
8	A High-Transmission, Multiple Antireflective Surface Inspired from Bilayer 3D Ultrafine Hierarchical Structures in Butterfly Wing Scales. <i>Small</i> , 2016, 12, 713-720.	5.2	46
9	Long-term durability of superhydrophobic properties of butterfly wing scales after continuous contact with water. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017, 518, 139-144.	2.3	35
10	Fabrication of the replica templated from butterfly wing scales with complex light trapping structures. <i>Applied Surface Science</i> , 2015, 355, 290-297.	3.1	28
11	Unparalleled sensitivity of photonic structures in butterfly wings. <i>RSC Advances</i> , 2014, 4, 45214-45219.	1.7	24
12	Underwater writable and heat-insulated paper with robust fluorine-free superhydrophobic coatings. <i>Nanoscale</i> , 2020, 12, 8536-8545.	2.8	24
13	Large-Scale Bio-Inspired Flexible Antireflective Film with Scale-Insensitivity Arrays. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 23103-23112.	4.0	21
14	An Ingenious Super Light Trapping Surface Templated from Butterfly Wing Scales. <i>Nanoscale Research Letters</i> , 2015, 10, 1052.	3.1	19
15	Bioinspired Omnidirectional Self-Stable Reflectors with Multiscale Hierarchical Structures. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 29285-29294.	4.0	16
16	A feather-inspired interleaf for enhanced interlaminar fracture toughness of carbon fiber reinforced polymer composites. <i>Composites Part B: Engineering</i> , 2022, 236, 109827.	5.9	16
17	Angle-dependent discoloration structures in wing scales of Morpho menelaus butterfly. <i>Science China Technological Sciences</i> , 2016, 59, 749-755.	2.0	11
18	Superfast Liquid Transfer Strategy Through Sliding on a Liquid Membrane Inspired from Scorpion Setae. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800802.	1.9	11

#	ARTICLE	IF	CITATIONS
19	Excellent Color Sensitivity of Butterfly Wing Scales to Liquid Mediums. <i>Journal of Bionic Engineering</i> , 2016, 13, 355-363.	2.7	9
20	Cross-Scale Biological Models of Species for Future Biomimetic Composite Design: A Review. <i>Coatings</i> , 2021, 11, 1297.	1.2	6
21	Interfacial reinforced carbon fiber composites inspired by biological interlocking structure. <i>IScience</i> , 2022, 25, 104066.	1.9	6
22	Comparative Investigation on Improved Aerodynamic and Acoustic Performance of Abnormal Rotors by Bionic Edge Design and Rational Material Selection. <i>Polymers</i> , 2022, 14, 2552.	2.0	5
23	Durable and Superhydrophobic Aluminium Alloy with Microscale Hierarchical Structures and Anti-Drag Function Inspired by Diving Bell Spider. <i>Coatings</i> , 2021, 11, 1146.	1.2	3