

# Zhiwu Han

## List of Publications by Year in descending order

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169  
papers

5,791  
citations

70961

41  
h-index

91712

69  
g-index

171  
all docs

171  
docs citations

171  
times ranked

5347  
citing authors

#	ARTICLE	IF	CITATIONS
1	Target-oriented Passive Localization Techniques Inspired by Terrestrial Arthropods: A Review. <i>Journal of Bionic Engineering</i> , 2022, 19, 571-589.	2.7	2
2	Bending Resistance and Anisotropy of Basalt Fibers Laminate Composite with Bionic Helical Structure. <i>Journal of Bionic Engineering</i> , 2022, 19, 799-815.	2.7	10
3	Bioinspired, Omnidirectional, and Hypersensitive Flexible Strain Sensors. <i>Advanced Materials</i> , 2022, 34, e2200823.	11.1	73
4	Ultrasensitive, Highly Stable, and Flexible Strain Sensor Inspired by Nature. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 16885-16893.	4.0	23
5	Interfacial reinforced carbon fiber composites inspired by biological interlocking structure. <i>IScience</i> , 2022, 25, 104066.	1.9	6
6	Reconfigurable Fiber Triboelectric Nanogenerator for Self-Powered Defect Detection. <i>ACS Nano</i> , 2022, 16, 7721-7731.	7.3	15
7	Large-scale preparation of a versatile bioinspired sponge with physic-mechanochemical robustness for multitasking separation. <i>Journal of Hazardous Materials</i> , 2022, 435, 128902.	6.5	10
8	Nanowires in Flexible Sensors: Structure is Becoming a Key in Controlling the Sensing Performance. <i>Advanced Materials Technologies</i> , 2022, 7, .	3.0	6
9	A Novel Manual Training Platform for Single-Port Laparoscopic Surgery. <i>Machines</i> , 2022, 10, 343.	1.2	0
10	Bioinspired Strategies for Excellent Mechanical Properties of Composites. <i>Journal of Bionic Engineering</i> , 2022, 19, 1203-1228.	2.7	16
11	Flexible Equivalent Strain Sensor with Ordered Concentric Circular Curved Cracks Inspired by Scorpion. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 29441-29450.	4.0	4
12	A multifunctional flexible sensor with coupling bionic microstructures inspired by nature. <i>Journal of Materials Chemistry C</i> , 2022, 10, 11296-11306.	2.7	3
13	Mechano-Sensor for Proprioception Inspired by Ultrasensitive Slit-Based Mechanosensilla. <i>Advanced Materials Technologies</i> , 2022, 7, .	3.0	2
14	Mechanical properties of a novel dactyl-inspired green-composite sandwich structures with basalt fiber. <i>Journal of Sandwich Structures and Materials</i> , 2021, 23, 803-813.	2.0	6
15	An effective model for mechanical properties of nacre-inspired continuous fiber-reinforced laminated composites. <i>Mechanics of Advanced Materials and Structures</i> , 2021, 28, 1849-1857.	1.5	6
16	Microstructure and in-situ tensile strength of propodus of mantis shrimp. <i>Microscopy Research and Technique</i> , 2021, 84, 415-421.	1.2	4
17	Optimum Anti-erosion Structures and Anti-erosion Mechanism for Rotatory Samples Inspired by Scorpion Armor of <i>Parabuthus transvaalicus</i> . <i>Journal of Bionic Engineering</i> , 2021, 18, 92-102.	2.7	5
18	Study on the heterogeneous material coupling connection characteristics and mechanical strength of <i>Oratosquilla oratoria</i> mantis shrimp saddle. <i>Microscopy (Oxford, England)</i> , 2021, 70, 361-367.	0.7	1

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19	Biomimetic Slippery PDMS Film with Papillae-Like Microstructures for Antifogging and Self-Cleaning. <i>Coatings</i> , 2021, 11, 238.	1.2	7
20	Bio-Inspired Soft Grippers Based on Impactive Gripping. <i>Advanced Science</i> , 2021, 8, 2002017.	5.6	68
21	Broader-Band and Flexible Antireflective Films with the Window-like Structures Inspired by the Backside of Butterfly Wing Scales. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 19450-19459.	4.0	12
22	pH-responsive smart superwetting Fe foam for efficient in situ on-demand oil/water separation. <i>Journal of Materials Science</i> , 2021, 56, 13372.	1.7	6
23	Smart Bionic Surfaces with Switchable Wettability and Applications. <i>Journal of Bionic Engineering</i> , 2021, 18, 473-500.	2.7	14
24	Large-Scale Bio-Inspired Flexible Antireflective Film with Scale-Insensitivity Arrays. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 23103-23112.	4.0	21
25	Investigation of microstructure and dissimilar materials connection patterns of mantis shrimp saddle. <i>Microscopy Research and Technique</i> , 2021, 84, 2075-2081.	1.2	1
26	Chaotic Neural Network-Based Hysteresis Modeling With Dynamic Operator for Magnetic Shape Memory Alloy Actuator. <i>IEEE Transactions on Magnetics</i> , 2021, 57, 1-4.	1.2	10
27	Study on preparation and mechanical properties of bionic carbon fiber reinforced epoxy resin composite with eagle feather structure. <i>Materials Research Express</i> , 2021, 8, 065301.	0.8	7
28	Bionic Design and 3D Printing of Continuous Carbon Fiber-Reinforced Polylactic Acid Composite with Barbicel Structure of Eagle-Owl Feather. <i>Materials</i> , 2021, 14, 3618.	1.3	6
29	Hysteresis Modeling of Magnetic Shape Memory Alloy Actuator Based on Volterra Series. <i>IEEE Transactions on Magnetics</i> , 2021, 57, 1-4.	1.2	4
30	Engineered Mechanosensors Inspired by Biological Mechanosensilla. <i>Advanced Materials Technologies</i> , 2021, 6, 2100352.	3.0	14
31	Toward the Burgeoning Optical Sensors with Ultra-Precision Hierarchical Structures Inspired by Butterflies. <i>Advanced Materials Interfaces</i> , 2021, 8, 2100142.	1.9	8
32	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
33	Integration 3D printing of bionic continuous carbon fiber reinforced resin composite. <i>Materials Research Express</i> , 2021, 8, 095602.	0.8	3
34	Bionic design of tools in cutting: Reducing adhesion, abrasion or friction. <i>Wear</i> , 2021, 482-483, 203955.	1.5	30
35	A Mathematical Model Including Mechanical Structure, Hydraulic and Control of LHDS. <i>Robotica</i> , 2021, 39, 1328-1343.	1.3	1
36	Bioinspired, Superhydrophobic, and Paper-Based Strain Sensors for Wearable and Underwater Applications. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 1967-1978.	4.0	85

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37	Cross-Scale Biological Models of Species for Future Biomimetic Composite Design: A Review. <i>Coatings</i> , 2021, 11, 1297.	1.2	6
38	Bioinspired Superhydrophobic Cilia for Droplets Transportation and Microchemical Reaction. <i>Advanced Materials Interfaces</i> , 2021, 8, .	1.9	20
39	A Selective-Response Bioinspired Strain Sensor Using Viscoelastic Material as Middle Layer. <i>ACS Nano</i> , 2021, 15, 19629-19639.	7.3	22
40	Metallic Sb nanoparticles embedded into a yolk-shell $Sb_2O_3@TiO_2$ composite as anode materials for lithium ion batteries. <i>New Journal of Chemistry</i> , 2020, 44, 13430-13438.	1.4	7
41	Large Curvature Folding Strategies of Butterfly Proboscis. <i>Journal of Bionic Engineering</i> , 2020, 17, 1239-1250.	2.7	2
42	Bio-mesopores structure functional composites by mushroom-derived carbon/NiO for lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2020, 848, 156477.	2.8	9
43	Crack-based and Hair-like Sensors Inspired from Arthropods: A Review. <i>Journal of Bionic Engineering</i> , 2020, 17, 867-898.	2.7	20
44	Synthesis of one-dimensional PAN-based carbon fiber/NiO composite as an anode material for structural lithium-ion batteries. <i>Ionics</i> , 2020, 26, 5935-5940.	1.2	6
45	Hydrodynamic Perception Using an Artificial Lateral Line Device with an Optimized Constriction Canal. <i>Journal of Bionic Engineering</i> , 2020, 17, 909-919.	2.7	3
46	Preparation of shape-controlled electric-eel-inspired $SnO_2@C$ anode materials via $SnC_2O_4$ precursor approach for energy storage. <i>Journal of Materials Science</i> , 2020, 55, 11524-11534.	1.7	3
47	Ligand-Assisted Solid-State Transformation of Nanoparticles. <i>Chemistry of Materials</i> , 2020, 32, 3271-3277.	3.2	13
48	Underwater writable and heat-insulated paper with robust fluorine-free superhydrophobic coatings. <i>Nanoscale</i> , 2020, 12, 8536-8545.	2.8	24
49	High-aspect-ratio deflection transducers inspired by the ultra-sensitive cantilever configuration of scorpion trichobothria. <i>Journal of Materials Chemistry C</i> , 2020, 8, 6093-6101.	2.7	10
50	Biomimetic metal surfaces inspired by lotus and reed leaves for manipulation of microdroplets or fluids. <i>Applied Surface Science</i> , 2020, 519, 146052.	3.1	27
51	Nonwet Kingfisher Flying in the Rain: The Tumble of Droplets on Moving Oriented Anisotropic Superhydrophobic Substrates. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 35707-35715.	4.0	18
52	Design of a flexible bio-inspired stretch-forming machine for the fabrication of large radius bends parts. <i>International Journal of Advanced Manufacturing Technology</i> , 2020, 108, 3571-3578.	1.5	1
53	Study of Solid Particle Erosion on Helicopter Rotor Blades Surfaces. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 977.	1.3	12
54	Rapid Fabrication of Bio-inspired Antireflection Film Replicating From Cicada Wings. <i>Journal of Bionic Engineering</i> , 2020, 17, 34-44.	2.7	27

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55	Review and Classification of Bio-inspired Algorithms and Their Applications. <i>Journal of Bionic Engineering</i> , 2020, 17, 611-631.	2.7	62
56	Musculoskeletal computational analysis on muscle mechanical characteristics of drivers' lumbar vertebrae and legs in different sitting postures. <i>Revista Da Associação Médica Brasileira</i> , 2020, 66, 637-642.	0.3	3
57	A Novel Icephobic Strategy: The Fabrication of Biomimetic Coupling Micropatterns of Superwetting Surface. <i>Advanced Materials Interfaces</i> , 2019, 6, 1900864.	1.9	11
58	An effective route for manufacturing a mushroom-derived carbon/SnO <sub>2</sub> /C functional composite. <i>New Journal of Chemistry</i> , 2019, 43, 12503-12510.	1.4	2
59	Flexible and highly sensitive pressure sensors based on microcrack arrays inspired by scorpions. <i>RSC Advances</i> , 2019, 9, 22740-22748.	1.7	16
60	Phragmites Communis Leaves with Anisotropy, Superhydrophobicity and Self-Cleaning Effect and Biomimetic Polydimethylsiloxane (PDMS) Replicas. <i>Coatings</i> , 2019, 9, 541.	1.2	6
61	Robust superhydrophobic attapulgite meshes for effective separation of water-in-oil emulsions. <i>Journal of Colloid and Interface Science</i> , 2019, 557, 84-93.	5.0	49
62	Ascendant bioinspired antireflective materials: Opportunities and challenges coexist. <i>Progress in Materials Science</i> , 2019, 103, 1-68.	16.0	89
63	Vibrational Receptor of Scorpion ( <i>Heterometrus petersii</i> ): The Basitarsal Compound Slit Sensilla. <i>Journal of Bionic Engineering</i> , 2019, 16, 76-87.	2.7	12
64	Micro/nano-scale Characterization and Fatigue Fracture Resistance of Mechanoreceptor with Crack-shaped Slit Arrays in Scorpion. <i>Journal of Bionic Engineering</i> , 2019, 16, 410-422.	2.7	12
65	Preparation of PAN-based carbon fiber/MnO <sub>2</sub> composite as an anode material for structural lithium-ion batteries. <i>Journal of Materials Science</i> , 2019, 54, 11972-11982.	1.7	30
66	Preparation of PAN-based carbon fiber/Co <sub>3</sub> O <sub>4</sub> composite and potential application in structural lithium-ion battery anodes. <i>Ionics</i> , 2019, 25, 5333-5340.	1.2	18
67	Mechanolectrical Energy Conversion: Highly Efficient Mechanolectrical Energy Conversion Based on the Near-Tip Stress Field of an Antifracture Slit Observed in Scorpions ( <i>Adv. Funct. Mater.</i> 22/2019). <i>Advanced Functional Materials</i> , 2019, 29, 1970147.	7.8	3
68	Flexible Self-Cleaning Broadband Antireflective Film Inspired by the Transparent Cicada Wings. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 17019-17027.	4.0	67
69	Switchable Wettability Surface with Chemical Stability and Antifouling Properties for Controllable Oil-Water Separation. <i>Langmuir</i> , 2019, 35, 4498-4508.	1.6	48
70	Janus Soft Actuators with On/Off Switchable Behaviors for Controllable Manipulation Driven by Oil. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 13742-13751.	4.0	16
71	Highly Efficient Mechanolectrical Energy Conversion Based on the Near-Tip Stress Field of an Antifracture Slit Observed in Scorpions. <i>Advanced Functional Materials</i> , 2019, 29, 1807693.	7.8	21
72	A Bionic Vibration Source Localization Device Inspired by the Hunting Localization Mechanism of Scorpions. <i>Journal of Bionic Engineering</i> , 2019, 16, 1019-1029.	2.7	3

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73	Carbon fiber@ pore-ZnO composite as anode materials for structural lithium-ion batteries. Journal of Electroanalytical Chemistry, 2019, 833, 39-46.	1.9	27
74	Temperature-tunable wettability on a bioinspired structured graphene surface for fog collection and unidirectional transport. Nanoscale, 2018, 10, 3813-3822.	2.8	67
75	Flourishing Bioinspired Antifogging Materials with Superwettability: Progresses and Challenges. Advanced Materials, 2018, 30, e1704652.	11.1	161
76	Artificial Hair-Like Sensors Inspired from Nature: A Review. Journal of Bionic Engineering, 2018, 15, 409-434.	2.7	55
77	High-performance flexible strain sensor with bio-inspired crack arrays. Nanoscale, 2018, 10, 15178-15186.	2.8	115
78	Bio-inspired antifogging PDMS coupled micro-pillared superhydrophobic arrays and SiO <sub>2</sub> coatings. RSC Advances, 2018, 8, 26497-26505.	1.7	20
79	A bioinspired structured graphene surface with tunable wetting and high wearable properties for efficient fog collection. Nanoscale, 2018, 10, 16127-16137.	2.8	51
80	A biomimetic surface with switchable contact angle and adhesion for transfer and storage of microdroplets. Nanoscale, 2018, 10, 15393-15401.	2.8	36
81	Preparation of carbon cloth supported Sn thin film for structural lithium-ion battery anodes. Journal of Electroanalytical Chemistry, 2018, 822, 17-22.	1.9	11
82	Superfast Liquid Transfer Strategy Through Sliding on a Liquid Membrane Inspired from Scorpion Setae. Advanced Materials Interfaces, 2018, 5, 1800802.	1.9	11
83	Gas-liquid Solid Erosive Wear of Biomimetic Pattern Surface Inspired from Plant. Tribology Transactions, 2017, 60, 159-165.	1.1	12
84	Long-term durability of superhydrophobic properties of butterfly wing scales after continuous contact with water. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2017, 518, 139-144.	2.3	35
85	The effect of the micro-structures on the scorpion surface for improving the anti-erosion performance. Surface and Coatings Technology, 2017, 313, 143-150.	2.2	22
86	Water-trapping and drag-reduction effects of fish Ctenopharyngodon idellus scales and their simulations. Science China Technological Sciences, 2017, 60, 1111-1117.	2.0	28
87	A smart switchable bioinspired copper foam responding to different pH droplets for reversible oil-water separation. Journal of Materials Chemistry A, 2017, 5, 2603-2612.	5.2	78
88	One-step fabrication of biomimetic superhydrophobic surface by electrodeposition on magnesium alloy and its corrosion inhibition. Journal of Colloid and Interface Science, 2017, 491, 313-320.	5.0	120
89	Superfast and high-sensitivity printable strain sensors with bioinspired micron-scale cracks. Nanoscale, 2017, 9, 1166-1173.	2.8	101
90	Bioinspired Fabrication of one dimensional graphene fiber with collection of droplets application. Scientific Reports, 2017, 7, 12056.	1.6	21

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91	Fine Structure of Scorpion Pectines for Odor Capture. <i>Journal of Bionic Engineering</i> , 2017, 14, 589-599.	2.7	3
92	Bionic anti-adhesive electrode coupled with maize leaf microstructures and TiO <sub>2</sub> coating. <i>RSC Advances</i> , 2017, 7, 45287-45293.	1.7	25
93	Fabrication of bioinspired structured superhydrophobic and superoleophilic copper mesh for efficient oil-water separation. <i>Journal of Bionic Engineering</i> , 2017, 14, 497-505.	2.7	41
94	Anti-adhesive property of maize leaf surface related with temperature and humidity. <i>Journal of Bionic Engineering</i> , 2017, 14, 540-548.	2.7	14
95	Energy-Efficient Oil-Water Separation of Biomimetic Copper Membrane with Multiscale Hierarchical Dendritic Structures. <i>Small</i> , 2017, 13, 1701121.	5.2	49
96	The Ingenious Structure of Scorpion Armor Inspires Sand-Resistant Surfaces. <i>Tribology Letters</i> , 2017, 65, 1.	1.2	14
97	Bioinspired Omnidirectional Self-Stable Reflectors with Multiscale Hierarchical Structures. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 29285-29294.	4.0	16
98	A Novel Bioinspired Continuous Unidirectional Liquid Spreading Surface Structure from the Peristome Surface of <i>Nepenthes alata</i> . <i>Small</i> , 2017, 13, 1601676.	5.2	94
99	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
100	Controlling Wettability for Improved Corrosion Inhibition on Magnesium Alloy as Biomedical Implant Materials. <i>Advanced Materials Interfaces</i> , 2016, 3, 1500723.	1.9	36
101	Continuous directional water transport on the peristome surface of <i>Nepenthes alata</i> . <i>Nature</i> , 2016, 532, 85-89.	13.7	834
102	A Facile Electrodeposition Process for the Fabrication of Superhydrophobic and Superoleophilic Copper Mesh for Efficient Oil-Water Separation. <i>Industrial &amp; Engineering Chemistry Research</i> , 2016, 55, 2704-2712.	1.8	72
103	Biomimetic multifunctional surfaces inspired from animals. <i>Advances in Colloid and Interface Science</i> , 2016, 234, 27-50.	7.0	130
104	Bio-inspired micro-nano structured surface with structural color and anisotropic wettability on Cu substrate. <i>Applied Surface Science</i> , 2016, 379, 230-237.	3.1	54
105	Angle-dependent discoloration structures in wing scales of <i>Morpho menelaus</i> butterfly. <i>Science China Technological Sciences</i> , 2016, 59, 749-755.	2.0	11
106	Wettability Control: Controlling Wettability for Improved Corrosion Inhibition on Magnesium Alloy as Biomedical Implant Materials ( <i>Adv. Mater. Interfaces</i> 8/2016). <i>Advanced Materials Interfaces</i> , 2016, 3, .	1.9	0
107	Active Antifogging Property of Monolayer SiO <sub>2</sub> Film with Bioinspired Multiscale Hierarchical Pagoda Structures. <i>ACS Nano</i> , 2016, 10, 8591-8602.	7.3	92
108	Excellent Color Sensitivity of Butterfly Wing Scales to Liquid Mediums. <i>Journal of Bionic Engineering</i> , 2016, 13, 355-363.	2.7	9



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109	Integrated super-hydrophobic and antireflective PDMS bio-templated from nano-conical structures of cicada wings. RSC Advances, 2016, 6, 108974-108980.	1.7	26
110	Impact resistance of oil-immersed lignum vitae. Scientific Reports, 2016, 6, 30090.	1.6	12
111	Influence of water and oil immersion on the tribological properties of Excentrodendron hsienmu. Science China Technological Sciences, 2016, 59, 1673-1679.	2.0	5
112	Superhydrophobic and superoleophobic surface by electrodeposition on magnesium alloy substrate: Wettability and corrosion inhibition. Journal of Colloid and Interface Science, 2016, 478, 164-171.	5.0	78
113	An Efficient Bionic Anti-Erosion Functional Surface Inspired by Desert Scorpion Carapace. Tribology Transactions, 2015, 58, 357-364.	1.1	26
114	Microstructures and Wear Behavior of the TiC Ceramic Particulate Locally Reinforced Steel Matrix Composites from a Cu-Ti-C System. ISIJ International, 2015, 55, 319-325.	0.6	8
115	High light absorption properties and optical structures in butterfly Heliophorus ila Lycaenidae wing scales. RSC Advances, 2015, 5, 46011-46016.	1.7	10
116	Fabrication of the replica templated from butterfly wing scales with complex light trapping structures. Applied Surface Science, 2015, 355, 290-297.	3.1	28
117	Bioinspired Surface for Surgical Graspers Based on the Strong Wet Friction of Tree Frog Toe Pads. ACS Applied Materials & Interfaces, 2015, 7, 13987-13995.	4.0	119
118	Dry Sliding Friction and Wear Mechanism of TiC-TiB <sub>2</sub> Particulate Locally Reinforced Mn-Steel Matrix Composite from a Cu-Ti-B <sub>4</sub> C System via a Self-Propagating High-Temperature Synthesis (SHS) Casting Route. Tribology Transactions, 2015, 58, 567-575.	1.1	5
119	Excellent Structure-Based Multifunction of Morpho Butterfly Wings: A Review. Journal of Bionic Engineering, 2015, 12, 170-189.	2.7	113
120	Characterization of Multi-scale Morphology and Superhydrophobicity of Water Bamboo Leaves and Biomimetic Polydimethylsiloxane (PDMS) Replicas. Journal of Bionic Engineering, 2015, 12, 624-633.	2.7	27
121	An Ingenious Super Light Trapping Surface Templated from Butterfly Wing Scales. Nanoscale Research Letters, 2015, 10, 1052.	3.1	19
122	In situ fabrication of TiC-TiB <sub>2</sub> precipitates in Mn-steel using thermal explosion (TE) casting. Journal of Materials Research, 2015, 30, 1019-1028.	1.2	3
123	A electro-deposition process for fabrication of biomimetic super-hydrophobic surface and its corrosion resistance on magnesium alloy. Electrochimica Acta, 2014, 125, 395-403.	2.6	242
124	Fabrication of biomimetic super-hydrophobic surface on aluminum alloy. Journal of Materials Science, 2014, 49, 1624-1629.	1.7	42
125	Fabrication of biomimetic superhydrophobic surface with controlled adhesion by electrodeposition. Chemical Engineering Journal, 2014, 248, 440-447.	6.6	96
126	Antifogging properties and mechanism of micron structure in Ephemera pictiventris McLachlan compound eyes. Science Bulletin, 2014, 59, 2039-2044.	1.7	9



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127	Unparalleled sensitivity of photonic structures in butterfly wings. RSC Advances, 2014, 4, 45214-45219.	1.7	24
128	Fabrication of a superhydrophobic graphene surface with excellent mechanical abrasion and corrosion resistance on an aluminum alloy substrate. RSC Advances, 2014, 4, 45389-45396.	1.7	80
129	Numerical experiment of the solid particle erosion of bionic configuration blade of centrifugal fan. Acta Metallurgica Sinica (English Letters), 2013, 26, 16-24.	1.5	14
130	The study of the efficiency enhancement of bionic coupling centrifugal pumps. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2013, 35, 517-524.	0.8	8
131	An ingenious replica templated from the light trapping structure in butterfly wing scales. Nanoscale, 2013, 5, 8500.	2.8	34
132	Biomimetic hydrophobic surface fabricated by chemical etching method from hierarchically structured magnesium alloy substrate. Applied Surface Science, 2013, 280, 845-849.	3.1	95
133	Erosion-Resistant Surfaces Inspired by Tamarisk. Journal of Bionic Engineering, 2013, 10, 479-487.	2.7	46
134	Light Trapping Effect in Wing Scales of Butterfly Papilio peranthus and Its Simulations. Journal of Bionic Engineering, 2013, 10, 162-169.	2.7	23
135	Numerical modelling of electroosmotic driven flow in nanoporous media by lattice Boltzmann method. Journal of Bionic Engineering, 2013, 10, 90-99.	2.7	12
136	Fabrication of biomimetic hydrophobic films with corrosion resistance on magnesium alloy by immersion process. Applied Surface Science, 2013, 264, 527-532.	3.1	25
137	Scorpion back inspiring sand-resistant surfaces. Journal of Central South University, 2013, 20, 877-888.	1.2	9
138	Biomimetic Superhydrophobic Surface of High Adhesion Fabricated with Micronano Binary Structure on Aluminum Alloy. ACS Applied Materials & Interfaces, 2013, 5, 8907-8914.	4.0	70
139	Active Anti-erosion Protection Strategy in Tamarisk (Tamarix aphylla). Scientific Reports, 2013, 3, 3429.	1.6	23
140	Erosion Resistance of Bionic Functional Surfaces Inspired from Desert Scorpions. Langmuir, 2012, 28, 2914-2921.	1.6	65
141	Light trapping structures in wing scales of butterfly Trogonoptera brookiana. Nanoscale, 2012, 4, 2879.	2.8	54
142	Replication of Papilio maackii's butterfly scale structural color using a magnetron sputtering method. Science Bulletin, 2012, 57, 4525-4528.	1.7	5
143	Effect of Cu content in Cu-Ti-B4C system on fabricating TiC/TiB <sub>2</sub> particulates locally reinforced steel matrix composites. Materials & Design, 2012, 40, 64-69.	5.1	20
144	Surface wettability and chemistry of ozone perfusion processed porous collagen scaffold. Journal of Bionic Engineering, 2011, 8, 223-233.	2.7	11

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145	Gas-solid erosion on bionic configuration surface. Journal Wuhan University of Technology, Materials Science Edition, 2011, 26, 305-310.	0.4	10
146	The optimization design and FEA analysis in car sunroof design. , 2011, , .		0
147	Anti-wear properties on 20CrMnTi steel surfaces with biomimetic non-smooth units. Science China Technological Sciences, 2010, 53, 2920-2924.	2.0	7
148	Biological coupling anti-wear properties of three typical molluscan shells—Scapharca subcrenata, Rapana venosa and Acanthochiton rubrolineatus. Science China Technological Sciences, 2010, 53, 2905-2913.	2.0	37
149	Anti-Erosion Function in Animals and its Biomimetic Application. Journal of Bionic Engineering, 2010, 7, S50-S58.	2.7	38
150	Optimization of Laser Processing Parameters and Their Effect on Penetration Depth and Surface Roughness of Biomimetic Units on the Surface of 3Cr2W8V Steel. Journal of Bionic Engineering, 2010, 7, S67-S76.	2.7	16
151	Mechanical characteristics of typical plant leaves. Journal of Bionic Engineering, 2010, 7, 294-300.	2.7	32
152	Effect of thermal fatigue loading on tensile behavior of H13 die steel with biomimetic surface. Journal of Bionic Engineering, 2010, 7, 390-396.	2.7	22
153	Microstructure and structural color in wing scales of butterfly Thaumantis diores. Science Bulletin, 2009, 54, 535-540.	1.7	18
154	Gradient collagen/nanohydroxyapatite composite scaffold: Development and characterization. Acta Biomaterialia, 2009, 5, 661-669.	4.1	104
155	Experimental Optimization of Bionic Dimpled Surfaces on Axisymmetric Bluff Bodies for Drag Reduction. IUTAM Symposium on Cellular, Molecular and Tissue Mechanics, 2008, , 399-403.	0.1	0
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