

Ying Hu

List of Publications by Year in descending order

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52
papers

3,490
citations

172386

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49
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53
all docs

53
docs citations

53
times ranked

5174
citing authors

#	ARTICLE	IF	CITATIONS
1	Soft Actuators Based On Carbon Nanomaterials. ChemPlusChem, 2022, 87, e202100437.	1.3	13
2	An ultra-broad-range pressure sensor based on a gradient stiffness design. Materials Horizons, 2021, 8, 2260-2272.	6.4	24
3	Self-Locomotive Soft Actuator Based on Asymmetric Microstructural Ti ₃ C ₂ T _x MXene Film Driven by Natural Sunlight Fluctuation. ACS Nano, 2021, 15, 5294-5306.	7.3	103
4	Dual-Responsive Soft Actuators with Integrated Sensing Function Based on 1T-MoS ₂ Composite. Advanced Intelligent Systems, 2021, 3, 2000240.	3.3	15
5	Two-Dimensional Nanosheets-Based Soft Electro-Chemo-Mechanical Actuators: Recent Advances in Design, Construction, and Applications. ACS Nano, 2021, 15, 9273-9298.	7.3	55
6	Dual-Responsive Soft Actuator Based on Aligned Carbon Nanotube Composite/Graphene Bimorph for Bioinspired Applications. Macromolecular Materials and Engineering, 2021, 306, 2100166.	1.7	7
7	Light-Driven Self-Oscillating Actuators with Phototactic Locomotion Based on Black Phosphorus Heterostructure. Angewandte Chemie, 2021, 133, 20674-20680.	1.6	3
8	Light-Driven Self-Oscillating Actuators with Phototactic Locomotion Based on Black Phosphorus Heterostructure. Angewandte Chemie - International Edition, 2021, 60, 20511-20517.	7.2	82
9	Hierarchical Structure Fabrication of IPMC Strain Sensor With High Sensitivity. Frontiers in Materials, 2021, 8, .	1.2	3
10	Progress of low-frequency sound absorption research utilizing intelligent materials and acoustic metamaterials. RSC Advances, 2021, 11, 37784-37800.	1.7	20
11	Structural Color Surface on Transparent PDMS Fabricated by Carbon-Assisted Laser Interference Lithography for Real-Time Quantification of Soft Actuators Motion. ACS Applied Materials & Interfaces, 2020, 12, 45641-45647.	4.0	15
12	An Autonomous Soft Actuator with Light-Driven Self-Sustained Wavelike Oscillation for Phototactic Self-Locomotion and Power Generation. Advanced Functional Materials, 2020, 30, 1908842.	7.8	100
13	Graphene-Based Bimorph Actuators with Dual-Response and Large-Deformation by a Simple Method. Macromolecular Materials and Engineering, 2019, 304, 1800688.	1.7	22
14	Multifunctional Soft Actuators Based on Anisotropic Paper/Polymer Bilayer Toward Bioinspired Applications. Advanced Materials Technologies, 2019, 4, 1800674.	3.0	37
15	A bioinspired multi-functional wearable sensor with an integrated light-induced actuator based on an asymmetric graphene composite film. Journal of Materials Chemistry C, 2019, 7, 6879-6888.	2.7	42
16	High-performance ionic polymer-metal composite actuators fabricated with microneedle roughening. Smart Materials and Structures, 2019, 28, 015007.	1.8	13
17	High-performance graphdiyne-based electrochemical actuators. Nature Communications, 2018, 9, 752.	5.8	268
18	Photo-assisted synthesis of coaxial-structured polypyrrole/electrochemically hydrogenated TiO ₂ nanotube arrays as a high performance supercapacitor electrode. RSC Advances, 2018, 8, 13393-13400.	1.7	10

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19	Electrochemical hydrogenation of mixed-phase TiO ₂ nanotube arrays enables remarkably enhanced photoelectrochemical water splitting performance. <i>Science Bulletin</i> , 2018, 63, 194-202.	4.3	30
20	Ionic polymer with single-layered electrodes: a novel strategy for ionic actuator design. <i>Smart Materials and Structures</i> , 2018, 27, 105046.	1.8	13
21	Microfluidic-spinning construction of black-phosphorus-hybrid microfibrils for non-woven fabrics toward a high energy density flexible supercapacitor. <i>Nature Communications</i> , 2018, 9, 4573.	5.8	181
22	Ionic Electroactive Polymers Used in Bionic Robots: A Review. <i>Journal of Bionic Engineering</i> , 2018, 15, 765-782.	2.7	41
23	A powerful dual-responsive soft actuator and photo-to-electric generator based on graphene micro-gasbags for bioinspired applications. <i>Journal of Materials Chemistry B</i> , 2018, 6, 5031-5038.	2.9	42
24	Rough interface in IPMC: modeling and its influence analysis. <i>Smart Materials and Structures</i> , 2018, 27, 075055.	1.8	12
25	High-performance Supercapacitors Based on Electrochemical-induced Vertical-aligned Carbon Nanotubes and Polyaniline Nanocomposite Electrodes. <i>Scientific Reports</i> , 2017, 7, 43676.	1.6	120
26	Electrically and Sunlight-Driven Actuator with Versatile Biomimetic Motions Based on Rolled Carbon Nanotube Bilayer Composite. <i>Advanced Functional Materials</i> , 2017, 27, 1704388.	7.8	211
27	Actuators: Electrically and Sunlight-Driven Actuator with Versatile Biomimetic Motions Based on Rolled Carbon Nanotube Bilayer Composite (<i>Adv. Funct. Mater.</i> 44/2017). <i>Advanced Functional Materials</i> , 2017, 27, .	7.8	3
28	Self-Powered Piezoionic Strain Sensor toward the Monitoring of Human Activities. <i>Small</i> , 2016, 12, 5074-5080.	5.2	105
29	Ordered and Active Nanochannel Electrode Design for High-Performance Electrochemical Actuator. <i>Small</i> , 2016, 12, 4986-4992.	5.2	42
30	Photoactuators for Direct Optical-to-Mechanical Energy Conversion: From Nanocomponent Assembly to Macroscopic Deformation. <i>Advanced Materials</i> , 2016, 28, 10548-10556.	11.1	129
31	A Graphene-Based Bimorph Structure for Design of High Performance Photoactuators. <i>Advanced Materials</i> , 2015, 27, 7867-7873.	11.1	219
32	Graphitic carbon nitride nanosheet electrode-based high-performance ionic actuator. <i>Nature Communications</i> , 2015, 6, 7258.	5.8	211
33	Wavelength-selective and rebound-able bimorph photoactuator driven by a dynamic mass transport process. <i>Journal of Materials Chemistry C</i> , 2015, 3, 1888-1892.	2.7	21
34	A wearable and highly sensitive CO sensor with a macroscopic polyaniline nanofiber membrane. <i>Journal of Materials Chemistry A</i> , 2015, 3, 24333-24337.	5.2	30
35	An interface nanostructured array guided high performance electrochemical actuator. <i>Journal of Materials Chemistry A</i> , 2014, 2, 16836-16841.	5.2	50
36	Novel electromechanical actuation based on a spongy graphene paper. <i>Chemical Communications</i> , 2014, 50, 4951.	2.2	21

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37	Novel C-rich carbon nitride for room temperature NO ₂ gas sensors. RSC Advances, 2014, 4, 18003-18006.	1.7	48
38	A spongy graphene based bimorph actuator with ultra-large displacement towards biomimetic application. Nanoscale, 2014, 6, 12703-12709.	2.8	87
39	Holey reduced graphene oxide nanosheets for high performance room temperature gas sensing. Journal of Materials Chemistry A, 2014, 2, 17415-17420.	5.2	124
40	Progress in carbon nanotube and graphene based artificial muscles. Chinese Science Bulletin, 2014, 59, 2240-2252.	0.4	3
41	Single-Layer Single-Crystalline SnSe Nanosheets. Journal of the American Chemical Society, 2013, 135, 1213-1216.	6.6	433
42	Graphene-Stabilized Silver Nanoparticle Electrochemical Electrode for Actuator Design. Advanced Materials, 2013, 25, 1270-1274.	11.1	130
43	Large volume variation of an anisotropic graphene nanosheet electrochemical-mechanical actuator under low voltage stimulation. Chemical Communications, 2012, 48, 3978.	2.2	43
44	Actuators: Highly Stable Air Working Bimorph Actuator Based on a Graphene Nanosheet/Carbon Nanotube Hybrid Electrode (Adv. Mater. 31/2012). Advanced Materials, 2012, 24, 4222-4222.	11.1	0
45	Direct growth of size-controlled gold nanoparticles on reduced graphene oxide film from bulk gold by tuning electric field: effective methodology and substrate for surface enhanced Raman scattering study. Journal of Materials Chemistry, 2012, 22, 11994.	6.7	34
46	Highly Stable Air Working Bimorph Actuator Based on a Graphene Nanosheet/Carbon Nanotube Hybrid Electrode. Advanced Materials, 2012, 24, 4317-4321.	11.1	125
47	Externally Induced Thermal Actuation of Polymer Nanocomposites. Macromolecular Chemistry and Physics, 2011, 212, 992-998.	1.1	16
48	Low-Voltage-Driven Sustainable Weightlifting Actuator Based on Polymer-Nanotube Composite. Macromolecular Chemistry and Physics, 2011, 212, 1671-1676.	1.1	19
49	Electromechanical Actuation with Controllable Motion Based on a Single-Walled Carbon Nanotube and Natural Biopolymer Composite. ACS Nano, 2010, 4, 3498-3502.	7.3	98
50	Fabrication of dendrite-like Au nanostructures and their enhanced photoluminescence emission. Physica Status Solidi (A) Applications and Materials Science, 2007, 204, 3398-3404.	0.8	16
51	Carbon Nanotubes Engineering Assisted by Natural Biopolymers. , 0, , .		0
52	A Bioinspired Programmable Soft Bilayer Actuator Based on Aluminum Exoskeleton. Advanced Materials Technologies, 0, , 2200036.	3.0	1