

Ying Hu

List of Publications by Year in descending order

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Version: 2024-02-01

52
papers

3,490
citations

172386

29
h-index

197736

49
g-index

53
all docs

53
docs citations

53
times ranked

5174
citing authors

#	ARTICLE	IF	CITATIONS
1	Single-Layer Single-Crystalline SnSe Nanosheets. <i>Journal of the American Chemical Society</i> , 2013, 135, 1213-1216.	6.6	433
2	High-performance graphdiyne-based electrochemical actuators. <i>Nature Communications</i> , 2018, 9, 752.	5.8	268
3	A Graphene-Based Bimorph Structure for Design of High Performance Photoactuators. <i>Advanced Materials</i> , 2015, 27, 7867-7873.	11.1	219
4	Graphitic carbon nitride nanosheet electrode-based high-performance ionic actuator. <i>Nature Communications</i> , 2015, 6, 7258.	5.8	211
5	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
6	Microfluidic-spinning construction of black-phosphorus-hybrid microfibres for non-woven fabrics toward a high energy density flexible supercapacitor. <i>Nature Communications</i> , 2018, 9, 4573.	5.8	181
7	Graphene-Stabilized Silver Nanoparticle Electrochemical Electrode for Actuator Design. <i>Advanced Materials</i> , 2013, 25, 1270-1274.	11.1	130
8	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
9	Highly Stable Air Working Bimorph Actuator Based on a Graphene Nanosheet/Carbon Nanotube Hybrid Electrode. <i>Advanced Materials</i> , 2012, 24, 4317-4321.	11.1	125
10	Holey reduced graphene oxide nanosheets for high performance room temperature gas sensing. <i>Journal of Materials Chemistry A</i> , 2014, 2, 17415-17420.	5.2	124
11	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
12	Self-Powered Piezoionic Strain Sensor toward the Monitoring of Human Activities. <i>Small</i> , 2016, 12, 5074-5080.	5.2	105
13	Self-Loomotive Soft Actuator Based on Asymmetric Microstructural $\text{Ti}_3\text{C}_2\text{T}_x$ MXene Film Driven by Natural Sunlight Fluctuation. <i>ACS Nano</i> , 2021, 15, 5294-5306.	7.3	103
14	An Autonomous Soft Actuator with Light-Driven Self-Sustained Wavelike Oscillation for Phototactic Self-Loemotion and Power Generation. <i>Advanced Functional Materials</i> , 2020, 30, 1908842.	7.8	100
15	Electromechanical Actuation with Controllable Motion Based on a Single-Walled Carbon Nanotube and Natural Biopolymer Composite. <i>ACS Nano</i> , 2010, 4, 3498-3502.	7.3	98
16	A spongy graphene based bimorph actuator with ultra-large displacement towards biomimetic application. <i>Nanoscale</i> , 2014, 6, 12703-12709.	2.8	87
17	Light-Driven Self-Oscillating Actuators with Phototactic Locomotion Based on Black Phosphorus Heterostructure. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 20511-20517.	7.2	82
18	Two-Dimensional Nanosheets-Based Soft Electro-Chemo-Mechanical Actuators: Recent Advances in Design, Construction, and Applications. <i>ACS Nano</i> , 2021, 15, 9273-9298.	7.3	55

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19	An interface nanostructured array guided high performance electrochemical actuator. <i>Journal of Materials Chemistry A</i> , 2014, 2, 16836-16841.	5.2	50
20	Novel C-rich carbon nitride for room temperature NO ₂ gas sensors. <i>RSC Advances</i> , 2014, 4, 18003-18006.	1.7	48
21	Large volume variation of an anisotropic graphene nanosheet electrochemical-mechanical actuator under low voltage stimulation. <i>Chemical Communications</i> , 2012, 48, 3978.	2.2	43
22	Ordered and Active Nanochannel Electrode Design for High-Performance Electrochemical Actuator. <i>Small</i> , 2016, 12, 4986-4992.	5.2	42
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	A bioinspired multi-functional wearable sensor with an integrated light-induced actuator based on an asymmetric graphene composite film. <i>Journal of Materials Chemistry C</i> , 2019, 7, 6879-6888.	2.7	42
25	Ionic Electroactive Polymers Used in Bionic Robots: A Review. <i>Journal of Bionic Engineering</i> , 2018, 15, 765-782.	2.7	41
26	Multifunctional Soft Actuators Based on Anisotropic Paper/Polymer Bilayer Toward Bioinspired Applications. <i>Advanced Materials Technologies</i> , 2019, 4, 1800674.	3.0	37
27	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. <i>Journal of Materials Chemistry</i> , 2012, 22, 11994.	6.7	34
28	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
29	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
30	An ultra-broad-range pressure sensor based on a gradient stiffness design. <i>Materials Horizons</i> , 2021, 8, 2260-2272.	6.4	24
31	Graphene-Based Bimorph Actuators with Dual-Response and Large-Deformation by a Simple Method. <i>Macromolecular Materials and Engineering</i> , 2019, 304, 1800688.	1.7	22
32	Novel electromechanical actuation based on a spongy graphene paper. <i>Chemical Communications</i> , 2014, 50, 4951.	2.2	21
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	Progress of low-frequency sound absorption research utilizing intelligent materials and acoustic metamaterials. <i>RSC Advances</i> , 2021, 11, 37784-37800.	1.7	20
35	Low-Voltage-Driven Sustainable Weightlifting Actuator Based on Polymer-Nanotube Composite. <i>Macromolecular Chemistry and Physics</i> , 2011, 212, 1671-1676.	1.1	19
36	Fabrication of dendrite-like Au nanostructures and their enhanced photoluminescence emission. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2007, 204, 3398-3404.	0.8	16

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37	Externally Induced Thermal Actuation of Polymer Nanocomposites. <i>Macromolecular Chemistry and Physics</i> , 2011, 212, 992-998.	1.1	16
38	Structural Color Surface on Transparent PDMS Fabricated by Carbon-Assisted Laser Interference Lithography for Real-Time Quantification of Soft Actuators Motion. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 45641-45647.	4.0	15
39	Dual-Responsive Soft Actuators with Integrated Sensing Function Based on 1T-MoS ₂ Composite. <i>Advanced Intelligent Systems</i> , 2021, 3, 2000240.	3.3	15
40	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
41	High-performance ionic polymer-metal composite actuators fabricated with microneedle roughening. <i>Smart Materials and Structures</i> , 2019, 28, 015007.	1.8	13
42	Soft Actuators Based On Carbon Nanomaterials. <i>ChemPlusChem</i> , 2022, 87, e202100437.	1.3	13
43	Rough interface in IPMC: modeling and its influence analysis. <i>Smart Materials and Structures</i> , 2018, 27, 075055.	1.8	12
44	Photo-assisted synthesis of coaxial-structured polypyrrole/electrochemically hydrogenated TiO ₂ nanotube arrays as a high performance supercapacitor electrode. <i>RSC Advances</i> , 2018, 8, 13393-13400.	1.7	10
45	Dual-Responsive Soft Actuator Based on Aligned Carbon Nanotube Composite/Graphene Bimorph for Bioinspired Applications. <i>Macromolecular Materials and Engineering</i> , 2021, 306, 2100166.	1.7	7
46	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
47	Light-Driven Self-Oscillating Actuators with Phototactic Locomotion Based on Black Phosphorus Heterostructure. <i>Angewandte Chemie</i> , 2021, 133, 20674-20680.	1.6	3
48	Hierarchical Structure Fabrication of IPMC Strain Sensor With High Sensitivity. <i>Frontiers in Materials</i> , 2021, 8, .	1.2	3
49	Progress in carbon nanotube and graphene based artificial muscles. <i>Chinese Science Bulletin</i> , 2014, 59, 2240-2252.	0.4	3
50	A Bioinspired Programmable Soft Bilayer Actuator Based on Aluminum Exoskeleton. <i>Advanced Materials Technologies</i> , 0, , 2200036.	3.0	1
51	Carbon Nanotubes Engineering Assisted by Natural Biopolymers. , 0, , .		0
52	Actuators: Highly Stable Air Working Bimorph Actuator Based on a Graphene Nanosheet/Carbon Nanotube Hybrid Electrode (<i>Adv. Mater.</i> 31/2012). <i>Advanced Materials</i> , 2012, 24, 4222-4222.	11.1	0