Manmatha Mahato

List of Publications by Year
in descending order

31 papers	709 citations	687363 13 h-index	610901 24 g-index
33 all docs	33 docs citations	33 times ranked	729 citing authors

#	Article	IF	Citations
1	Stimuliâ€Responsive MXeneâ€Based Actuators. Advanced Functional Materials, 2020, 30, 1909504.	14.9	126
2	Skin-attachable and biofriendly chitosan-diatom triboelectric nanogenerator. Nano Energy, 2020, 75, 104904.	16.0	105
3	Diatom Bio-Silica and Cellulose Nanofibril for Bio-Triboelectric Nanogenerators and Self-Powered Breath Monitoring Masks. ACS Applied Materials & Interfaces, 2021, 13, 219-232.	8.0	68
4	Synthesis and photocatalytic activity of mesoporous cerium doped TiO2 as visible light sensitive photocatalyst. Materials Research Bulletin, 2012, 47, 179-183.	5.2	64
5	CTF-based soft touch actuator for playing electronic piano. Nature Communications, 2020, 11, 5358.	12.8	54
6	A mesoporous WN co-doped titania nanomaterial with enhanced photocatalytic aqueous nitrate removal activity under visible light. Catalysis Science and Technology, 2011, 1, 609.	4.1	41
7	Sulfurâ€and Nitrogenâ€Rich Porous Ïâ€Conjugated COFs as Stable Electrode Materials for Electroâ€Ionic Soft Actuators. Advanced Functional Materials, 2020, 30, 2003863.	14.9	30
8	Graphene Mesh for Selfâ€Sensing Ionic Soft Actuator Inspired from Mechanoreceptors in Human Body. Advanced Science, 2019, 6, 1901711.	11.2	29
9	Electronically Conjugated Multifunctional Covalent Triazine Framework for Unprecedented CO₂ Selectivity and Highâ€Power Flexible Supercapacitor. Advanced Functional Materials, 2022, 32, 2107442.	14.9	24
10	Intertwined Nanosponge Solid-State Polymer Electrolyte for Rollable and Foldable Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2020, 12, 11657-11668.	8.0	22
11	Asynchronous Double Schiff Base Formation of Pyrazole Porous Polymers for Selective Pd Recovery. Advanced Science, 2021, 8, 2001676.	11.2	21
12	Collectively Exhaustive MXene and Graphene Oxide Multilayer for Suppressing Shuttling Effect in Flexible Lithium Sulfur Battery. Advanced Materials Technologies, 2022, 7, 2101025.	5.8	14
13	Micro-structured porous electrolytes for highly responsive ionic soft actuators. Sensors and Actuators B: Chemical, 2022, 352, 131006.	7.8	14
14	A Dualâ€Responsive Magnetoactive and Electroâ€“Ionic Soft Actuator Derived from a Nickelâ€Based Metalâ€“Organic Framework. Advanced Materials, 2022, 34, .	21.0	14
15	Coolingâ€Accelerated Nanowireâ€Nitinol Hybrid Muscle for Versatile Prosthetic Hand and Biomimetic Retractable Claw. Advanced Functional Materials, 2022, 32, .	14.9	13
16	A dual-ion accepting vanadium carbide nanowire cathode integrated with carbon cloths for high cycling stability. Nanoscale, 2020, 12, 20868-20874.	5.6	10
17	Electroâ€Active and Photoâ€Active Vanadium Oxide Nanowire Thermoâ€Hygroscopic Actuators for Kirigami Popâ€up. Advanced Science, 2021, 8, e2102064.	11.2	10
18	Mutually exclusive ytterbium and nitrogen co-doping of mesoporous titania-carbon for self-cleanable and sustainable triboelectric nanogenerators. Nano Energy, 2021, 90, 106615.	16.0	10

#	Article	IF	Citations
19	Vapor phase sensing response of doped polyaniline-poly (vinyl alcohol) composite membrane to different aliphatic alcohols. Synthetic Metals, 2016, 220, 410-420.	3.9	8
20	Monitoring of drinking water quality: a preliminary approach by an electronic tongue based on functionalized polymer membrane electrodes. Analytical Methods, 2017, 9, 6019-6031.	2.7	6
21	Polymer membrane electrode based potentiometric taste sensor: A new sensor to distinguish five basic tastes. , 2012, , .		5
22	Discrimination of tea quality by polymer membrane electrode based potentiometric taste sensor. , 2012, , .		4
23	Development of novel polymeric sensors for taste sensing: Electronic tongue. , 2013, , .		4
24	Taste sensing with HDTC modified polyvinyl alcohol-polyacrylic acid membrane. , 2012, , .		2
25	Development of magnetically separable mesoporous N doped TiO₂-SiO₂ coated Fe₃O₄ nanomaterial as solar photocatalyst for environmental application. Materials Research Express, 2019, 6, 105544.	1.6	2
26	Poly(Nâ€[4Hâ€1,2,4â€triazolâ€4â€yl]acrylamide) with different ratio of poly(vinyl chloride) composite membrane for liquid phase sensing of alcohol. Journal of Applied Polymer Science, 2017, 134, .	2.6	1
27	Oxide-based self-cleaning and corrosion protective coatings. , 2021, , 135-173.		1
28	Skin-attachable motion sensor based on triboelectric nanogenerator with Chitosan-Diatom composite film. , 2021, , .		0
29	An advanced measurement technique for tracing ionsâ€™ movement through electroactive polymers. , 2021, , .		0
30	Electroactive artificial muscles: a constructive approach towards real-field soft robotics. , 2021, , .		0
31	Coolingâ€Accelerated Nanowireâ€Nitinol Hybrid Muscle for Versatile Prosthetic Hand and Biomimetic Retractable Claw (Adv. Funct. Mater. 18/2022). Advanced Functional Materials, 2022, 32, .	14.9	0