Xuan Zhang

List of Publications by Year
in descending order

49 papers	3,823 citations	293460 24 h-index	223390 49 g-index
53 all docs	53 docs citations	53 times ranked	7020 citing authors

#	Article	IF	Citations
1	Small-scale soft grippers with environmentally responsive logic gates. Materials Horizons, 2022, 9, 1431-1439.	6.4	8
2	Self-Assembly of Graphene Oxide Flakes for Smart and Multifunctional Coating with Reversible Formation of Wrinkling Patterns. Soft Matter, 2022, , .	1.2	0
3	Stimuli-responsive attachment for enabling the targeted release of carriers. Materials Chemistry Frontiers, 2021, 5, 4317-4326.	3.2	3
4	Performing calculus: Asymmetric adaptive stimuli-responsive material for derivative control. Science Advances, 2021, 7, .	4.7	6
5	Customizable drug tablets with constant release profiles via 3D printing technology. International Journal of Pharmaceutics, 2021, 598, 120370.	2.6	27
6	Antiliquid-Interfering, Antibacteria, and Adhesive Wearable Strain Sensor Based on Superhydrophobic and Conductive Composite Hydrogel. ACS Applied Materials & Interfaces, 2021, 13, 46022-46032.	4.0	50
7	Nonconductive Noncharging Composites: Tunable and Stretchable Materials for Adaptive Prevention of Charging by Contact Electrification. ACS Applied Materials & Interfaces, 2020, 12, 5274-5285.	4.0	5
8	Charging Organic Liquids by Static Charge. Journal of the American Chemical Society, 2020, 142, 21004-21016.	6.6	8
9	Selective Reduction Sites on Commercial Graphite Foil for Building Multimetallic Nanoâ€Assemblies for Energy Conversion. ChemistrySelect, 2020, 5, 13269-13277.	0.7	0
10	On-demand fully customizable drug tablets via 3D printing technology for personalized medicine. Journal of Controlled Release, 2020, 322, 42-52.	4.8	63
11	The Relationship between Static Charge and Shape. ACS Central Science, 2020, 6, 704-714.	5.3	14
12	A novel synthetic strategy for styreneâ€“butadieneâ€“styrene tri-block copolymer with high cis -1,4 units via changing catalytic active centres. Royal Society Open Science, 2019, 6, 190536.	1.1	5
13	Smart Composite Hydrogels with pH-Responsiveness and Electrical Conductivity for Flexible Sensors and Logic Gates. Polymers, 2019, 11, 1564.	2.0	20
14	Eco-Friendly, Direct Deposition of Metal Nanoparticles on Graphite for Electrochemical Energy Conversion and Storage. ACS Applied Materials & Interfaces, 2019, 11, 36525-36534.	4.0	23
15	Soft stimuli-responsive grippers and machines with high load-to-weight ratios. Materials Horizons, 2019, 6, 160-168.	6.4	24
16	Synthesis of Novel pH-Tunable Thermoresponsive Hydroxyl-Terminated Hyperbranched Polyether. Polymers, 2019, 11, 895.	2.0	1
17	The Pathway to Intelligence: Using Stimuliâ€Responsive Materials as Building Blocks for Constructing Smart and Functional Systems. Advanced Materials, 2019, 31, e1804540.	11.1	169
18	Rationalizing the Triboelectric Series of Polymers. Chemistry of Materials, 2019, 31, 1473-1478.	3.2	80

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19	Graphiteâ€Aligned Ni/Ni(OH)₂ Nanowireâ€Based Aqueous Asymmetric Supercapacitors Exhibiting Excellent Cycle Stability, High Rate Performance, and Wide Operation Voltage. ChemistrySelect, 2019, 4, 13543-13550.	0.7	4
20	Rupturing cancer cells by the expansion of functionalized stimuli-responsive hydrogels. NPG Asia Materials, 2018, 10, e465-e465.	3.8	26
21	Signal Amplification: A Sharp Impermeableâ€Permeable Transition for Highly Sensitive Lowâ€Cost Detection. Advanced Materials Technologies, 2018, 3, 1800042.	3.0	2
22	LÃ©vy-like movement patterns of metastatic cancer cells revealed in microfabricated systems and implicated in vivo. Nature Communications, 2018, 9, 4539.	5.8	73
23	Drug delivery systems for programmed and on-demand release. Advanced Drug Delivery Reviews, 2018, 132, 104-138.	6.6	229
24	Correlating Material Transfer and Charge Transfer in Contact Electrification. Journal of Physical Chemistry C, 2018, 122, 16154-16160.	1.5	54
25	Anomalous Charging Behavior of Inorganic Materials. Journal of Physical Chemistry C, 2018, 122, 11414-11421.	1.5	16
26	Controlling Surface Charge Generated by Contact Electrification: Strategies and Applications. Advanced Materials, 2018, 30, e1802405.	11.1	117
27	Performing Logical Operations with Stimuliâ€Responsive Building Blocks. Advanced Materials, 2017, 29, 1606483.	11.1	23
28	Metal Nanowire-Based Hybrid Electrodes Exhibiting High Charge/Discharge Rates and Long-Lived Electrocatalysis. ACS Applied Materials & Interfaces, 2017, 9, 36350-36357.	4.0	8
29	Universal Nature-Inspired Coatings for Preparing Noncharging Surfaces. ACS Applied Materials & Interfaces, 2017, 9, 32220-32226.	4.0	25
30	Pristine graphene oxide film-based contactless actuators driven by electrostatic forces. Journal of Materials Chemistry C, 2017, 5, 9534-9539.	2.7	9
31	Reversible and Continuously Tunable Control of Charge of Close Surfaces. Journal of Physical Chemistry Letters, 2017, 8, 6142-6147.	2.1	9
32	Solidâ€toâ€Liquid Charge Transfer for Generating Droplets with Tunable Charge. Angewandte Chemie, 2016, 128, 10110-10114.	1.6	5
33	Solidâ€toâ€Liquid Charge Transfer for Generating Droplets with Tunable Charge. Angewandte Chemie - International Edition, 2016, 55, 9956-9960.	7.2	31
34	Designing Non-charging Surfaces from Non-conductive Polymers. Advanced Materials, 2016, 28, 3024-3029.	11.1	35
35	Stimuliâ€Responsive Surfaces for Tunable and Reversible Control of Wettability. Advanced Materials, 2015, 27, 4062-4068.	11.1	119
36	Printing Tablets with Fully Customizable Release Profiles for Personalized Medicine. Advanced Materials, 2015, 27, 7847-7853.	11.1	116

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37	Using the gravitational energy of water to generate power by separation of charge at interfaces. Chemical Science, 2015, 6, 3347-3353.	3.7	64
38	Phase transition dynamics and mechanism for backbone-thermoresponsive hyperbranched polyethers. Polymer Chemistry, 2014, 5, 4022.	1.9	19
39	Estimating chemical reactivity and cross-influence from collective chemical knowledge. Chemical Science, 2012, 3, 1497.	3.7	26
40	Tomography and Staticâ€Mechanical Properties of Adherent Cells. Advanced Materials, 2012, 24, 5719-5726.	11.1	9
41	Micropatterning: Tomography and Staticâ€Mechanical Properties of Adherent Cells (Adv. Mater.) Tj ETQq1 1 0.784314 rgBT /Overlock	11.1	0
42	Swarming in Shallow Waters. Journal of Physical Chemistry Letters, 2011, 2, 770-774.	2.1	56
43	Micropatterned substrates: Tools for studying cell motility and aiding rational drug design. FASEB Journal, 2011, 25, .	0.2	0
44	Reactionâ€Diffusion Systems in Intracellular Molecular Transport and Control. Angewandte Chemie - International Edition, 2010, 49, 4170-4198.	7.2	155
45	Maze Solving by Chemotactic Droplets. Journal of the American Chemical Society, 2010, 132, 1198-1199.	6.6	254
46	Nanoscale Forces and Their Uses in Selfâ€Assembly. Small, 2009, 5, 1600-1630.	5.2	1,362
47	Directing cell motions on micropatterned ratchets. Nature Physics, 2009, 5, 606-612.	6.5	281
48	Dynamic Self-Assembly in Ensembles of Camphor Boats. Journal of Physical Chemistry B, 2008, 112, 10848-10853.	1.2	99
49	Cell motility on micropatterned treadmills and tracks. Soft Matter, 2007, 3, 672.	1.2	35