Xuan Zhang

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/197976/publications.pdf

Version: 2024-02-01

49 3,823 24 49 papers citations h-index g-index

53 53 53 6100 all docs docs citations times ranked citing authors

#	Article	IF	CITATIONS
1	Nanoscale Forces and Their Uses in Selfâ€Assembly. Small, 2009, 5, 1600-1630.	10.0	1,362
2	Directing cell motions on micropatterned ratchets. Nature Physics, 2009, 5, 606-612.	16.7	281
3	Maze Solving by Chemotactic Droplets. Journal of the American Chemical Society, 2010, 132, 1198-1199.	13.7	254
4	Drug delivery systems for programmed and on-demand release. Advanced Drug Delivery Reviews, 2018, 132, 104-138.	13.7	229
5	The Pathway to Intelligence: Using Stimuliâ€Responsive Materials as Building Blocks for Constructing Smart and Functional Systems. Advanced Materials, 2019, 31, e1804540.	21.0	169
6	Reactionâ€Diffusion Systems in Intracellular Molecular Transport and Control. Angewandte Chemie - International Edition, 2010, 49, 4170-4198.	13.8	155
7	Stimuliâ€Responsive Surfaces for Tunable and Reversible Control of Wettability. Advanced Materials, 2015, 27, 4062-4068.	21.0	119
8	Controlling Surface Charge Generated by Contact Electrification: Strategies and Applications. Advanced Materials, 2018, 30, e1802405.	21.0	117
9	Printing Tablets with Fully Customizable Release Profiles for Personalized Medicine. Advanced Materials, 2015, 27, 7847-7853.	21.0	116
10	Dynamic Self-Assembly in Ensembles of Camphor Boats. Journal of Physical Chemistry B, 2008, 112, 10848-10853.	2.6	99
11	Rationalizing the Triboelectric Series of Polymers. Chemistry of Materials, 2019, 31, 1473-1478.	6.7	80
12	$L\tilde{A}$ © vy-like movement patterns of metastatic cancer cells revealed in microfabricated systems and implicated in vivo. Nature Communications, 2018, 9, 4539.	12.8	73
13	Using the gravitational energy of water to generate power by separation of charge at interfaces. Chemical Science, 2015, 6, 3347-3353.	7.4	64
14	On-demand fully customizable drug tablets via 3D printing technology for personalized medicine. Journal of Controlled Release, 2020, 322, 42-52.	9.9	63
15	Swarming in Shallow Waters. Journal of Physical Chemistry Letters, 2011, 2, 770-774.	4.6	56
16	Correlating Material Transfer and Charge Transfer in Contact Electrification. Journal of Physical Chemistry C, 2018, 122, 16154-16160.	3.1	54
17	Antiliquid-Interfering, Antibacteria, and Adhesive Wearable Strain Sensor Based on Superhydrophobic and Conductive Composite Hydrogel. ACS Applied Materials & Samp; Interfaces, 2021, 13, 46022-46032.	8.0	50
18	Cell motility on micropatterned treadmills and tracks. Soft Matter, 2007, 3, 672.	2.7	35

#	Article	IF	Citations
19	Designing Non-charging Surfaces from Non-conductive Polymers. Advanced Materials, 2016, 28, 3024-3029.	21.0	35
20	Solidâ€toâ€Liquid Charge Transfer for Generating Droplets with Tunable Charge. Angewandte Chemie - International Edition, 2016, 55, 9956-9960.	13.8	31
21	Customizable drug tablets with constant release profiles via 3D printing technology. International Journal of Pharmaceutics, 2021, 598, 120370.	5.2	27
22	Estimating chemical reactivity and cross-influence from collective chemical knowledge. Chemical Science, 2012, 3, 1497.	7.4	26
23	Rupturing cancer cells by the expansion of functionalized stimuli-responsive hydrogels. NPG Asia Materials, 2018, 10, e465-e465.	7.9	26
24	Universal Nature-Inspired Coatings for Preparing Noncharging Surfaces. ACS Applied Materials & Amp; Interfaces, 2017, 9, 32220-32226.	8.0	25
25	Soft stimuli-responsive grippers and machines with high load-to-weight ratios. Materials Horizons, 2019, 6, 160-168.	12.2	24
26	Performing Logical Operations with Stimuliâ€Responsive Building Blocks. Advanced Materials, 2017, 29, 1606483.	21.0	23
27	Eco-Friendly, Direct Deposition of Metal Nanoparticles on Graphite for Electrochemical Energy Conversion and Storage. ACS Applied Materials & Interfaces, 2019, 11, 36525-36534.	8.0	23
28	Smart Composite Hydrogels with pH-Responsiveness and Electrical Conductivity for Flexible Sensors and Logic Gates. Polymers, 2019, 11, 1564.	4.5	20
29	Phase transition dynamics and mechanism for backbone-thermoresponsive hyperbranched polyethers. Polymer Chemistry, 2014, 5, 4022.	3.9	19
30	Anomalous Charging Behavior of Inorganic Materials. Journal of Physical Chemistry C, 2018, 122, 11414-11421.	3.1	16
31	The Relationship between Static Charge and Shape. ACS Central Science, 2020, 6, 704-714.	11.3	14
32	Tomography and Staticâ€Mechanical Properties of Adherent Cells. Advanced Materials, 2012, 24, 5719-5726.	21.0	9
33	Pristine graphene oxide film-based contactless actuators driven by electrostatic forces. Journal of Materials Chemistry C, 2017, 5, 9534-9539.	5.5	9
34	Reversible and Continuously Tunable Control of Charge of Close Surfaces. Journal of Physical Chemistry Letters, 2017, 8, 6142-6147.	4.6	9
35	Metal Nanowire-Based Hybrid Electrodes Exhibiting High Charge/Discharge Rates and Long-Lived Electrocatalysis. ACS Applied Materials & Samp; Interfaces, 2017, 9, 36350-36357.	8.0	8
36	Charging Organic Liquids by Static Charge. Journal of the American Chemical Society, 2020, 142, 21004-21016.	13.7	8

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37	Small-scale soft grippers with environmentally responsive logic gates. Materials Horizons, 2022, 9, 1431-1439.	12.2	8
38	Performing calculus: Asymmetric adaptive stimuli-responsive material for derivative control. Science Advances, 2021, 7, .	10.3	6
39	Solidâ€toâ€Liquid Charge Transfer for Generating Droplets with Tunable Charge. Angewandte Chemie, 2016, 128, 10110-10114.	2.0	5
40	A novel synthetic strategy for styrene–butadiene–styrene tri-block copolymer with high <i>cis</i> -1,4 units via changing catalytic active centres. Royal Society Open Science, 2019, 6, 190536.	2.4	5
41	Nonconductive Noncharging Composites: Tunable and Stretchable Materials for Adaptive Prevention of Charging by Contact Electrification. ACS Applied Materials & Samp; Interfaces, 2020, 12, 5274-5285.	8.0	5
42	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.	1.5	4
43	Stimuli-responsive attachment for enabling the targeted release of carriers. Materials Chemistry Frontiers, 2021, 5, 4317-4326.	5.9	3
44	Signal Amplification: A Sharp Impermeableâ€Permeable Transition for Highly Sensitive Low ost Detection. Advanced Materials Technologies, 2018, 3, 1800042.	5.8	2
45	Synthesis of Novel pH-Tunable Thermoresponsive Hydroxyl-Terminated Hyperbranched Polyether. Polymers, 2019, 11, 895.	4.5	1
46	Micropatterning: Tomography and Staticâ€Mechanical Properties of Adherent Cells (Adv. Mater.) Tj ETQq0 0 0 r	gBT /Over 21.0	lock 10 Tf 50
47	Selective Reduction Sites on Commercial Graphite Foil for Building Multimetallic Nanoâ€Assemblies for Energy Conversion. ChemistrySelect, 2020, 5, 13269-13277.	1.5	О
48	Micropatterned substrates: Tools for studying cell motility and aiding rational drug design. FASEB Journal, 2011, 25, .	0.5	0
49	Self-Assembly of Graphene Oxide Flakes for Smart and Multifunctional Coating with Reversible Formation of Wrinkling Patterns. Soft Matter, 2022, , .	2.7	0