Zhiyong Xia

List of Publications by Year
in descending order

22 papers	590 citations	686830 13 h-index	752256 20 g-index
24 all docs	24 docs citations	24 times ranked	1061 citing authors

#	Article	IF	Citations
1	An Untethered Soft Robot Based on Liquid Crystal Elastomers. Soft Robotics, 2022, 9, 154-162.	4.6	28
2	Development of an environmentally-durable, low-friction coating. MRS Communications, 2021, 11, 256-260.	0.8	0
3	Novel niobium-doped titanium oxide towards electrochemical destruction of forever chemicals. Scientific Reports, 2021, 11, 18020.	1.6	4
4	Rapid Carbothermal Shock Enhances the Double-Layer Response of Graphene Oxideâ€“Carbon Nanotube Electrodes. Energy & Fuels, 2021, 35, 17919-17929.	2.5	2
5	Decoupling Oxygen and Chlorine Evolution Reactions in Seawater using Iridiumâ€based Electrocatalysts. ChemCatChem, 2020, 12, 4526-4532.	1.8	28
6	Effects of network structure on the mechanical and thermal responses of liquid crystal elastomers. Multifunctional Materials, 2020, 3, 015002.	2.4	4
7	Reversible Atmospheric Water Harvesting Using Metal-Organic Frameworks. Scientific Reports, 2020, 10, 1492.	1.6	89
8	Advanced Filtration Membranes for the Removal of Perfluoroalkyl Species from Water. ACS Omega, 2019, 4, 8001-8006.	1.6	27
9	Synthesis and mechanical properties of paraâ€aramid nanofibers. Journal of Polymer Science, Part B: Polymer Physics, 2019, 57, 563-573.	2.4	11
10	A Feedback Loop between Hypoxia and Matrix Stress Relaxation Increases Oxygen-Axis Migration and Metastasis in Sarcoma. Cancer Research, 2019, 79, 1981-1995.	0.4	22
11	â€˜Seeingâ€™ Strain in Soft Materials. Molecules, 2019, 24, 542.	1.7	30
12	Collagen Fiber Architecture Regulates Hypoxic Sarcoma Cell Migration. ACS Biomaterials Science and Engineering, 2018, 4, 400-409.	2.6	22
13	Enhanced elastin synthesis and maturation in human vascular smooth muscle tissue derived from induced-pluripotent stem cells. Acta Biomaterialia, 2017, 52, 49-59.	4.1	51
14	Heavy metal ion removal by thiol functionalized aluminum oxide hydroxide nanowhiskers. Applied Surface Science, 2017, 416, 565-573.	3.1	90
15	Method for the synthesis of paraâ€aramid nanofibers. Journal of Applied Polymer Science, 2016, 133, .	1.3	21
16	Structure and relaxation in cellulose hydrogels. Journal of Applied Polymer Science, 2015, 132, .	1.3	9
17	Stem cell impregnated nanofiber stent sleeve for on-stent production and intravascular delivery of paracrine factors. Biomaterials, 2015, 52, 318-326.	5.7	27
18	Robust Composite-Shell Microcapsules via Pickering Emulsification. ACS Applied Materials & Interfaces, 2015, 7, 7315-7323.	4.0	50

#	ARTICLE	IF	CITATIONS
19	Free-volume hole relaxation in molecularly oriented glassy polymers. Physical Review E, 2014, 89, 022603.	0.8	13
20	Banded structures in collagen vitrigels for corneal injury repair. Acta Biomaterialia, 2014, 10, 3615-3619.	4.1	2
21	Abstract 18045: Stem Cell Impregnated Nanofiber Stent Sleeve for Intravascular Paracrine Factor Production. Circulation, 2014, 130, .	1.6	0
22	Determination of crosslinking density of hydrogels prepared from microcrystalline cellulose. Journal of Applied Polymer Science, 2013, 127, 4537-4541.	1.3	60