

Jeong Jae Wie

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1140276/publications.pdf>

Version: 2024-02-01

64
papers

4,047
citations

236925

25
h-index

128289

60
g-index

68
all docs

68
docs citations

68
times ranked

5598
citing authors

#	ARTICLE	IF	CITATIONS
1	The use of elemental sulfur as an alternative feedstock for polymeric materials. <i>Nature Chemistry</i> , 2013, 5, 518-524.	13.6	1,046
2	Voxelated liquid crystal elastomers. <i>Science</i> , 2015, 347, 982-984.	12.6	863
3	High-Strength, Healable, Supramolecular Polymer Nanocomposites. <i>Journal of the American Chemical Society</i> , 2012, 134, 5362-5368.	13.7	303
4	Photomotility of polymers. <i>Nature Communications</i> , 2016, 7, 13260.	12.8	189
5	Reversibly Compressible, Highly Elastic, and Durable Graphene Aerogels for Energy Storage Devices under Limiting Conditions. <i>Advanced Functional Materials</i> , 2015, 25, 1053-1062.	14.9	143
6	Organic/Inorganic Hybrid Block Copolymer Electrolytes with Nanoscale Ion-Conducting Channels for Lithium Ion Batteries. <i>Macromolecules</i> , 2012, 45, 9347-9356.	4.8	108
7	Anomalous nanoinclusion effects of 2D MoS ₂ and WS ₂ nanosheets on the mechanical stiffness of polymer nanocomposites. <i>Nanoscale</i> , 2014, 6, 7430.	5.6	104
8	Torsional mechanical responses in azobenzene functionalized liquid crystalline polymer networks. <i>Soft Matter</i> , 2013, 9, 9303.	2.7	91
9	Twists and Turns in Glassy, Liquid Crystalline Polymer Networks. <i>Macromolecules</i> , 2015, 48, 1087-1092.	4.8	89
10	Impact of Backbone Rigidity on the Photomechanical Response of Glassy, Azobenzene-Functionalized Polyimides. <i>Macromolecules</i> , 2014, 47, 659-667.	4.8	81
11	Chemical modification of graphene aerogels for electrochemical capacitor applications. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 30946-30962.	2.8	74
12	Continuous and programmable photomechanical jumping of polymer monoliths. <i>Materials Today</i> , 2021, 49, 97-106.	14.2	55
13	On-demand orbital maneuver of multiple soft robots via hierarchical magnetomotility. <i>Nature Communications</i> , 2019, 10, 4751.	12.8	48
14	Molecular Engineering of Azobenzene-Functionalized Polyimides To Enhance Both Photomechanical Work and Motion. <i>Chemistry of Materials</i> , 2014, 26, 5223-5230.	6.7	45
15	Shape-Programmed Fabrication and Actuation of Magnetically Active Micropost Arrays. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 17113-17120.	8.0	44
16	Nanoarchitecturing of Natural Melanin Nanospheres by Layer-by-Layer Assembly: Macroscale Anti-inflammatory Conductive Coatings with Optoelectronic Tunability. <i>Biomacromolecules</i> , 2017, 18, 1908-1917.	5.4	39
17	Magnetomotility of untethered helical soft robots. <i>RSC Advances</i> , 2019, 9, 11272-11280.	3.6	39
18	Shear-Induced Solution Crystallization of Poly(3-hexylthiophene) (P3HT). <i>Macromolecules</i> , 2014, 47, 3343-3349.	4.8	35

#	ARTICLE	IF	CITATIONS
19	Cartilage-inspired superelastic ultradurable graphene aerogels prepared by the selective gluing of intersheet joints. <i>Nanoscale</i> , 2016, 8, 12900-12909.	5.6	35
20	Synthesis, self-assembly and reversible healing of supramolecular perfluoropolyethers. <i>Journal of Polymer Science Part A</i> , 2013, 51, 3598-3606.	2.3	34
21	Contactless Manipulation of Soft Robots. <i>Materials</i> , 2019, 12, 3065.	2.9	34
22	The contribution of hydrogen bonding to the photomechanical response of azobenzene-functionalized polyamides. <i>Journal of Materials Chemistry C</i> , 2018, 6, 5964-5974.	5.5	32
23	Rational molecular design of polymeric materials toward efficient triboelectric energy harvesting. <i>Nano Energy</i> , 2019, 66, 104158.	16.0	32
24	Naturally Derived Melanin Nanoparticle Composites with High Electrical Conductivity and Biodegradability. <i>Particle and Particle Systems Characterization</i> , 2019, 36, 1900166.	2.3	28
25	Azobenzene-functionalized polyimides as wireless actuators. <i>Polymer</i> , 2014, 55, 5915-5923.	3.8	26
26	Reconfigurable Antennas Based on Self-Morphing Liquid Crystalline Elastomers. <i>IEEE Access</i> , 2016, 4, 2340-2348.	4.2	26
27	High crystallinity of tunicate cellulose nanofibers for high-performance engineering films. <i>Carbohydrate Polymers</i> , 2021, 254, 117470.	10.2	22
28	Photopiezoelectric Composites of Azobenzene-Functionalized Polyimides and Polyvinylidene Fluoride. <i>Macromolecular Rapid Communications</i> , 2014, 35, 2050-2056.	3.9	21
29	3D-structured organic-inorganic hybrid solid-electrolyte-interface layers for Lithium metal anode. <i>Energy Storage Materials</i> , 2021, 37, 567-575.	18.0	21
30	Enhancement of Magneto-Mechanical Actuation of Micropillar Arrays by Anisotropic Stress Distribution. <i>Small</i> , 2020, 16, e2003179.	10.0	20
31	High-Fidelity Replica Molding of Glassy Liquid Crystalline Polymer Microstructures. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 8110-8117.	8.0	18
32	A nanostructured cell-free photosynthetic biocomposite via molecularly controlled layer-by-layer assembly. <i>Sensors and Actuators B: Chemical</i> , 2017, 244, 1-10.	7.8	18
33	Programmable Stepwise Collective Magnetic Self-Assembly of Micropillar Arrays. <i>ACS Nano</i> , 2022, 16, 3152-3162.	14.6	18
34	Soft electronics on asymmetrical porous conducting membranes by molecular layer-by-layer assembly. <i>Sensors and Actuators B: Chemical</i> , 2018, 254, 916-925.	7.8	17
35	Fabrication and applications of stimuli-responsive micro/nanopillar arrays. <i>Journal of Polymer Science</i> , 2021, 59, 1491-1517.	3.8	17
36	Introduction of primary chemical bonding in lignin-based PP composites for mechanical reinforcement via reactive extrusion. <i>Composites Part B: Engineering</i> , 2019, 165, 510-515.	12.0	16

#	ARTICLE	IF	CITATIONS
37	Effect of organoclays on the properties of polyurethane/clay nanocomposite coatings. <i>Journal of Applied Polymer Science</i> , 2010, 117, 2090-2100.	2.6	15
38	Thermally and Optically Fixable Shape Memory in Azobenzene-Functionalized Glassy Liquid Crystalline Polymer Networks. <i>Molecular Crystals and Liquid Crystals</i> , 2014, 596, 113-121.	0.9	15
39	Programmable Liquid Crystal Defect Arrays via Electric Field Modulation for Mechanically Functional Liquid Crystal Networks. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 36253-36261.	8.0	15
40	Nanoconfinement effects of chemically reduced graphene oxide nanoribbons on poly(vinyl chloride). <i>Nanoscale</i> , 2018, 10, 2025-2033.	5.6	14
41	Photo-triggered Shape Reconfiguration in Stretchable Reduced Graphene Oxide-patterned Azobenzene-functionalized Liquid Crystalline Polymer Networks. <i>Advanced Functional Materials</i> , 2021, 31, 2102106.	14.9	14
42	Manipulating the glass transition behavior of sulfonated polystyrene by functionalized nanoparticle inclusion. <i>Nanoscale</i> , 2015, 7, 8864-8872.	5.6	13
43	Nano-patching defects of reduced graphene oxide by cellulose nanocrystals in scalable polymer nanocomposites. <i>Carbon</i> , 2020, 165, 18-25.	10.3	13
44	Light-fueled Climbing of Monolithic Torsional Soft Robots via Molecular Engineering. <i>Advanced Intelligent Systems</i> , 2022, 4, 2100148.	6.1	13
45	Highly durable direct-current power generation in polarity-controlled and soft-triggered rotational triboelectric nanogenerator. <i>Applied Energy</i> , 2022, 314, 119006.	10.1	12
46	Three-dimensional micropatterning of semiconducting polymers via capillary force-assisted evaporative self-assembly. <i>Soft Matter</i> , 2019, 15, 3854-3863.	2.7	10
47	High-Speed Production of Crystalline Semiconducting Polymer Line Arrays by Meniscus Oscillation Self-Assembly. <i>ACS Nano</i> , 2020, 14, 17254-17261.	14.6	10
48	Eco-degradable and Flexible Solid-state Ionic Conductors by Clay-nanoconfined DMSO Composites. <i>Advanced Sustainable Systems</i> , 2020, 4, 1900134.	5.3	10
49	Toxic Gas-Free Synthesis of Extremely Negative Triboelectric Sulfur Copolymer Blends Via Phase Separation of Fluorine-Rich Polymers. <i>Nano Energy</i> , 2022, 92, 106761.	16.0	10
50	Intermolecular Interactions and Intramolecular Motions in Photomechanical Effect: Nonlinear Thermo- and Photomechanical Behaviors of Azobenzene-Functionalized Amide-imide Block Copolymers. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 48127-48140.	8.0	8
51	Agile Underwater Swimming of Magnetic Polymeric Microrobots in Viscous Solutions. <i>Advanced Intelligent Systems</i> , 2022, 4, .	6.1	8
52	Effects of Helix Geometry on Magnetic Guiding of Helical Polymer Composites on a Gastric Cancer Model: A Feasibility Study. <i>Materials</i> , 2020, 13, 1014.	2.9	6
53	Synthesis of Reactive Organifler for the Epoxy/layered Silicate Nanocomposite and the Properties of the Epoxy Nanocomposites. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2008, 46, 205-214.	2.2	5
54	Light-driven complex 3D shape morphing of glassy polymers by resolving spatio-temporal stress confliction. <i>Scientific Reports</i> , 2020, 10, 10840.	3.3	5

#	ARTICLE	IF	CITATIONS
55	Novel reconfigurable antennas using Liquid Crystals Elastomers. , 2015, , .		4
56	Programmable Building Blocks via Internal Stress Engineering for 3D Collective Assembly. <i>Advanced Materials Technologies</i> , 2020, 5, 2000758.	5.8	4
57	Thermal and Mechanical Properties of Polypropylene/Cellulose Nanofiber Composites. <i>Porrime</i> , 2020, 44, 255-263.	0.2	4
58	A photolithographic method for fabricating electron devices based on MOCVD-grown MoS ₂ . <i>Chemical Engineering Journal</i> , 2020, 382, 122944.	12.7	3
59	Energy Storage: Reversibly Compressible, Highly Elastic, and Durable Graphene Aerogels for Energy Storage Devices under Limiting Conditions (<i>Adv. Funct. Mater.</i> 7/2015). <i>Advanced Functional Materials</i> , 2015, 25, 1159-1159.	14.9	2
60	Multifunctional Three-Dimensional Curvilinear Self-Folding of Glassy Polymers. <i>Journal of Micro and Nano-Manufacturing</i> , 2020, 8, .	0.7	2
61	Analysis of Mechanical Properties in Thermoplastic Polyurethane-Microcrystalline Cellulose Composites. <i>Porrime</i> , 2020, 44, 776-783.	0.2	1
62	Effect of inner and outer chain length in multi-cationic site organoclays on the properties of PU/organoclay nanocomposites. <i>Macromolecular Research</i> , 2010, 18, 380-386.	2.4	0
63	Correction: Cartilage-inspired superelastic ultradurable graphene aerogels prepared by the selective gluing of intersheet joints. <i>Nanoscale</i> , 2016, 8, 13079-13079.	5.6	0
64	Height-Tunable Replica Molding Using Viscous Polymeric Resins. <i>ACS Macro Letters</i> , 2022, 11, 428-433.	4.8	0