

Christopher D Ellingford

List of Publications by Year in descending order

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Version: 2024-02-01

20
papers

1,120
citations

840119

11
h-index

752256

20
g-index

21
all docs

21
docs citations

21
times ranked

1294
citing authors

#	ARTICLE	IF	CITATIONS
1	Interface design for high energy density polymer nanocomposites. <i>Chemical Society Reviews</i> , 2019, 48, 4424-4465.	18.7	531
2	Electrical and Mechanical Self-Healing in High-Performance Dielectric Elastomer Actuator Materials. <i>Advanced Functional Materials</i> , 2019, 29, 1808431.	7.8	92
3	Challenges and Opportunities of Self-Healing Polymers and Devices for Extreme and Hostile Environments. <i>Advanced Materials</i> , 2021, 33, e2008052.	11.1	82
4	Tailoring the electrical and thermal conductivity of multi-component and multi-phase polymer composites. <i>International Materials Reviews</i> , 2020, 65, 129-163.	9.4	67
5	Self-Healing Dielectric Elastomers for Damage-Tolerant Actuation and Energy Harvesting. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 7595-7604.	4.0	55
6	Intrinsic Tuning of Poly(styrene- <i>b</i> -butadiene- <i>b</i> -styrene)-Based Self-Healing Dielectric Elastomer Actuators with Enhanced Electromechanical Properties. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 38438-38448.	4.0	51
7	Dynamic Polymer Networks: A New Avenue towards Sustainable and Advanced Soft Machines. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 13725-13736.	7.2	43
8	Intrinsically Tuning the Electromechanical Properties of Elastomeric Dielectrics: A Chemistry Perspective. <i>Macromolecular Rapid Communications</i> , 2018, 39, e1800340.	2.0	40
9	Reactive extrusion of biodegradable <i>PGA</i> / <i>PBAT</i> blends to enhance flexibility and gas barrier properties. <i>Journal of Applied Polymer Science</i> , 2022, 139, 51617.	1.3	33
10	Electron Beam-Mediated Cross-Linking of Blown Film-Extruded Biodegradable <i>PGA</i> / <i>PBAT</i> Blends toward High Toughness and Low Oxygen Permeation. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 1267-1276.	3.2	31
11	Electrical dual-percolation in <i>MWCNTs</i> / <i>SBS</i> / <i>PVDF</i> based thermoplastic elastomer (<i>TPE</i>) composites and the effect of mechanical stretching. <i>European Polymer Journal</i> , 2019, 112, 504-514.	2.6	16
12	Coupling Dynamic Covalent Bonds and Ionic Crosslinking Network to Promote Shape Memory Properties of Ethylene-vinyl Acetate Copolymers. <i>Polymers</i> , 2020, 12, 983.	2.0	12
13	Shape memory properties of polyethylene/ethylene vinyl acetate /carbon nanotube composites. <i>Polymer Testing</i> , 2020, 81, 106227.	2.3	11
14	Mechanical and dielectric properties of <i>MWCNT</i> filled chemically modified <i>SBS</i> / <i>PVDF</i> blends. <i>Composites Communications</i> , 2018, 8, 58-64.	3.3	10
15	Understanding the enhancement and temperature-dependency of the self-healing and electromechanical properties of dielectric elastomers containing mixed pendant polar groups. <i>Journal of Materials Chemistry C</i> , 2020, 8, 5426-5436.	2.7	10
16	Self-assembly of fluoride-encapsulated polyhedral oligomeric silsesquioxane (<i>POSS</i>) nanocrystals. <i>CrystEngComm</i> , 2019, 21, 710-723.	1.3	8
17	Dynamic Polymer Networks: A New Avenue towards Sustainable and Advanced Soft Machines. <i>Angewandte Chemie</i> , 2021, 133, 13841-13852.	1.6	8
18	New Class of Hybrid Materials for Detection, Capture, and "On-Demand" Release of Carbon Monoxide. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 13693-13701.	4.0	7

#	ARTICLE	IF	CITATIONS
19	Piezoelectricâ€Driven Selfâ€Sensing Leafâ€Mimic Actuator Enabled by Integration of a Selfâ€Healing Dielectric Elastomer and a Piezoelectric Composite. <i>Advanced Intelligent Systems</i> , 2021, 3, 2000248.	3.3	7
20	Structure and Dielectric Properties of Electroactive Tetraaniline Grafted Non-Polar Elastomers. <i>Journal of Composites Science</i> , 2020, 4, 25.	1.4	6