Christopher D Ellingford

List of Publications by Year
in descending order

20	1,120	840119 11	752256 20
papers	citations	h-index	g-index

21	21	21	1294
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Reactive extrusion of biodegradable <scp>PGA</scp>/<scp>PBAT</scp> blends to enhance flexibility and gas barrier properties. Journal of Applied Polymer Science, 2022, 139, 51617.	1.3	33
2	Electron Beam-Mediated Cross-Linking of Blown Film-Extruded Biodegradable PGA/PBAT Blends toward High Toughness and Low Oxygen Permeation. ACS Sustainable Chemistry and Engineering, 2022, 10, 1267-1276.	3.2	31
3	Dynamic Polymer Networks: A New Avenue towards Sustainable and Advanced Soft Machines. Angewandte Chemie, 2021, 133, 13841-13852.	1.6	8
4	Dynamic Polymer Networks: A New Avenue towards Sustainable and Advanced Soft Machines. Angewandte Chemie - International Edition, 2021, 60, 13725-13736.	7.2	43
5	Piezoelectricâ€Driven Selfâ€Sensing Leafâ€Mimic Actuator Enabled by Integration of a Selfâ€Healing Dielectric Elastomer and a Piezoelectric Composite. Advanced Intelligent Systems, 2021, 3, 2000248.	3.3	7
6	Challenges and Opportunities of Selfâ€Healing Polymers and Devices for Extreme and Hostile Environments. Advanced Materials, 2021, 33, e2008052.	11.1	82
7	Tailoring the electrical and thermal conductivity of multi-component and multi-phase polymer composites. International Materials Reviews, 2020, 65, 129-163.	9.4	67
8	Shape memory properties of polyethylene/ethylene vinyl acetate /carbon nanotube composites. Polymer Testing, 2020, 81, 106227.	2.3	11
9	Coupling Dynamic Covalent Bonds and Ionic Crosslinking Network to Promote Shape Memory Properties of Ethylene-vinyl Acetate Copolymers. Polymers, 2020, 12, 983.	2.0	12
10	Understanding the enhancement and temperature-dependency of the self-healing and electromechanical properties of dielectric elastomers containing mixed pendant polar groups. Journal of Materials Chemistry C, 2020, 8, 5426-5436.	2.7	10
11	Self-Healing Dielectric Elastomers for Damage-Tolerant Actuation and Energy Harvesting. ACS Applied Materials & Interfaces, 2020, 12, 7595-7604.	4.0	55
12	Structure and Dielectric Properties of Electroactive Tetraaniline Grafted Non-Polar Elastomers. Journal of Composites Science, 2020, 4, 25.	1.4	6
13	Interface design for high energy density polymer nanocomposites. Chemical Society Reviews, 2019, 48, 4424-4465.	18.7	531
14	Electrical dual-percolation in MWCNTs/SBS/PVDF based thermoplastic elastomer (TPE) composites and the effect of mechanical stretching. European Polymer Journal, 2019, 112, 504-514.	2.6	16
15	Self-assembly of fluoride-encapsulated polyhedral oligomeric silsesquioxane (POSS) nanocrystals. CrystEngComm, 2019, 21, 710-723.	1.3	8
16	Electrical and Mechanical Selfâ€Healing in Highâ€Performance Dielectric Elastomer Actuator Materials. Advanced Functional Materials, 2019, 29, 1808431.	7.8	92
17	Mechanical and dielectric properties of MWCNT filled chemically modified SBS/PVDF blends. Composites Communications, 2018, 8, 58-64.	3.3	10
18	New Class of Hybrid Materials for Detection, Capture, and â€œOn-Demandâ€•Release of Carbon Monoxide. ACS Applied Materials & Interfaces, 2018, 10, 13693-13701.	4.0	7

#	Article	IF	Citations
19	Intrinsic Tuning of Poly(styreneâ€“butadieneâ€“styrene)-Based Self-Healing Dielectric Elastomer Actuators with Enhanced Electromechanical Properties. ACS Applied Materials & Interfaces, 2018, 10, 38438-38448.	4.0	51
20	Intrinsically Tuning the Electromechanical Properties of Elastomeric Dielectrics: A Chemistry Perspective. Macromolecular Rapid Communications, 2018, 39, e1800340.	2.0	40