Christopher M Evans

List of Publications by Year
in descending order

36 papers	1,084 citations	393982 19 h-index	433756 31 g-index
36 all docs	36 docs citations	36 times ranked	1186 citing authors

#	Article	IF	Citations
1	Impact of dynamic covalent chemistry and precise linker length on crystallization kinetics and morphology in ethylene vitrimers. Soft Matter, 2022, 18, 293-303.	1.2	12
2	Vitrimers: Using Dynamic Associative Bonds to Control Viscoelasticity, Assembly, and Functionality in Polymer Networks. ACS Macro Letters, 2022, 11, 475-483.	2.3	32
3	Structural Relaxation and Vitrification in Dense Cross-Linked Polymer Networks: Simulation, Theory, and Experiment. Macromolecules, 2022, 55, 4159-4173.	2.2	17
4	Relaxation of Vitrimers with Kinetically Distinct Mixed Dynamic Bonds. Macromolecules, 2022, 55, 4450-4458.	2.2	24
5	Effect of precise linker length, bond density, and broad temperature window on the rheological properties of ethylene vitrimers. Soft Matter, 2021, 17, 3569-3577.	1.2	42
6	Effect of Amine Hardener Molecular Structure on the Thermal Conductivity of Epoxy Resins. ACS Applied Polymer Materials, 2021, 3, 259-267.	2.0	30
7	Effect of Aromatic/Aliphatic Structure and Cross-Linking Density on the Thermal Conductivity of Epoxy Resins. ACS Applied Polymer Materials, 2021, 3, 1555-1562.	2.0	25
8	Effect of Molecular Weight on Viscosity Scaling and Ion Transport in Linear Polymerized Ionic Liquids. Macromolecules, 2021, 54, 3395-3404.	2.2	12
9	Importance of Broad Temperature Windows and Multiple Rheological Approaches for Probing Viscoelasticity and Entropic Elasticity in Vitrimers. Macromolecules, 2021, 54, 4782-4791.	2.2	73
10	Solid-State, Single-Anion-Conducting Networks for Flexible and Stable Supercapacitor Electrolytes. ACS Applied Polymer Materials, 2021, 3, 4168-4176.	2.0	8
11	Effect of Linker Length and Temperature on the Thermal Conductivity of Ethylene Dynamic Networks. ACS Macro Letters, 2021, 10, 1088-1093.	2.3	17
12	High Thermal Conductivity Semicrystalline Epoxy Resins with Anthraquinone-Based Hardeners. ACS Applied Polymer Materials, 2021, 3, 4430-4435.	2.0	19
13	Ultra-thin self-healing vitrimer coatings for durable hydrophobicity. Nature Communications, 2021, 12, 5210.	5.8	89
14	Ion Specific, Thin Film Confinement Effects on Conductivity in Polymerized Ionic Liquids. Macromolecules, 2021, 54, 10520-10528.	2.2	8
15	Role of Multivalent Interactions in Dynamic-Template-Directed Assembly of Conjugated Polymers. ACS Applied Materials & Interfaces, 2020, 12, 2753-2762.	4.0	7
16	Critical Role of Ion Exchange Conditions on the Properties of Network Ionic Polymers. ACS Macro Letters, 2020, 9, 1718-1725.	2.3	4
17	<scp>Conductivityâ€“modulusâ€“T_g</scp> relationships in solventâ€free, single lithium ion conducting network electrolytes. Journal of Polymer Science, 2020, 58, 2376-2388.	2.0	11
18	Shock Wave Energy Dissipation in Catalyst-Free Poly(dimethylsiloxane) Vitrimers. Macromolecules, 2020, 53, 4741-4747.	2.2	32

#	Article	IF	Citations
19	Molecular Design of Precise Network Polymerized Ionic Liquid Membranes for Toluene/Heptane Separations. Industrial & Engineering Chemistry Research, 2019, 58, 14389-14395.	1.8	6
20	Effect of Network Architecture and Linker Polarity on Ion Aggregation and Conductivity in Precise Polymerized Ionic Liquids. ACS Macro Letters, 2019, 8, 658-663.	2.3	28
21	Ion Gel Dynamic Templates for Large Modulation of Morphology and Charge Transport Properties of Solution-Coated Conjugated Polymer Thin Films. ACS Applied Materials & Interfaces, 2019, 11, 22561-22574.	4.0	12
22	Effect of Polymerized Ionic Liquid Structure and Morphology on Shockwave Energy Dissipation. ACS Macro Letters, 2019, 8, 535-539.	2.3	12
23	Ion specific, oddâ€“even glass transition temperatures and conductivities in precise network polymerized ionic liquids. Molecular Systems Design and Engineering, 2019, 4, 332-341.	1.7	24
24	Catalyst-Free Dynamic Networks for Recyclable, Self-Healing Solid Polymer Electrolytes. Journal of the American Chemical Society, 2019, 141, 18932-18937.	6.6	113
25	Precise Network Polymerized Ionic Liquids for Lowâ€Voltage, Dopantâ€Free Soft Actuators. Advanced Materials Technologies, 2019, 4, 1800535.	3.0	18
26	Ion Transport in Dynamic Polymer Networks Based on Metalâ€“Ligand Coordination: Effect of Cross-Linker Concentration. Macromolecules, 2018, 51, 2017-2026.	2.2	45
27	Decoupling Mechanical and Conductive Dynamics of Polymeric Ionic Liquids via a Trivalent Anion Additive. Macromolecules, 2017, 50, 8979-8987.	2.2	18
28	Role of Tethered Ion Placement on Polymerized Ionic Liquid Structure and Conductivity: Pendant versus Backbone Charge Placement. ACS Macro Letters, 2016, 5, 925-930.	2.3	63
29	Anisotropic Thermal Transport in Thermoelectric Composites of Conjugated Polyelectrolytes/Single-Walled Carbon Nanotubes. Macromolecules, 2016, 49, 4957-4963.	2.2	31
30	Harvesting Waste Heat in Unipolar Ion Conducting Polymers. ACS Macro Letters, 2016, 5, 94-98.	2.3	62
31	Structureâ€“Conductivity Relationships of Block Copolymer Membranes Based on Hydrated Protic Polymerized Ionic Liquids: Effect of Domain Spacing. Macromolecules, 2016, 49, 2216-2223.	2.2	43
32	Anhydrous Proton Transport in Polymerized Ionic Liquid Block Copolymers: Roles of Block Length, Ionic Content, and Confinement. Macromolecules, 2016, 49, 395-404.	2.2	88
33	Improving the Gas Barrier Properties of Nafion via Thermal Annealing: Evidence for Diffusion through Hydrophilic Channels and Matrix. Macromolecules, 2015, 48, 3303-3309.	2.2	19
34	Determining multiple component glass transition temperatures in miscible polymer blends: Comparison of fluorescence spectroscopy and differential scanning calorimetry. Polymer, 2012, 53, 6118-6124.	1.8	24
35	Effects of crosslinking density and Lewis acidic sites on conductivity and viscoelasticity of dynamic network electrolytes. Journal of Polymer Science, 0, , .	2.0	3
36	Understanding the Roles of Mesh Size, Tg, and Segmental Dynamics on Probe Diffusion in Dense Polymer Networks. Macromolecules, 0, , .	2.2	13