

# Christopher M Evans

## List of Publications by Year in descending order

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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	Catalyst-Free Dynamic Networks for Recyclable, Self-Healing Solid Polymer Electrolytes. <i>Journal of the American Chemical Society</i> , 2019, 141, 18932-18937.	6.6	113
2	Ultra-thin self-healing vitrimer coatings for durable hydrophobicity. <i>Nature Communications</i> , 2021, 12, 5210.	5.8	89
3	Anhydrous Proton Transport in Polymerized Ionic Liquid Block Copolymers: Roles of Block Length, Ionic Content, and Confinement. <i>Macromolecules</i> , 2016, 49, 395-404.	2.2	88
4	Importance of Broad Temperature Windows and Multiple Rheological Approaches for Probing Viscoelasticity and Entropic Elasticity in Vitrimers. <i>Macromolecules</i> , 2021, 54, 4782-4791.	2.2	73
5	Role of Tethered Ion Placement on Polymerized Ionic Liquid Structure and Conductivity: Pendant versus Backbone Charge Placement. <i>ACS Macro Letters</i> , 2016, 5, 925-930.	2.3	63
6	Harvesting Waste Heat in Unipolar Ion Conducting Polymers. <i>ACS Macro Letters</i> , 2016, 5, 94-98.	2.3	62
7	Ion Transport in Dynamic Polymer Networks Based on Metal-Ligand Coordination: Effect of Cross-Linker Concentration. <i>Macromolecules</i> , 2018, 51, 2017-2026.	2.2	45
8	Structure-Conductivity Relationships of Block Copolymer Membranes Based on Hydrated Protic Polymerized Ionic Liquids: Effect of Domain Spacing. <i>Macromolecules</i> , 2016, 49, 2216-2223.	2.2	43
9	Effect of precise linker length, bond density, and broad temperature window on the rheological properties of ethylene vitrimers. <i>Soft Matter</i> , 2021, 17, 3569-3577.	1.2	42
10	Shock Wave Energy Dissipation in Catalyst-Free Poly(dimethylsiloxane) Vitrimers. <i>Macromolecules</i> , 2020, 53, 4741-4747.	2.2	32
11	Vitrimers: Using Dynamic Associative Bonds to Control Viscoelasticity, Assembly, and Functionality in Polymer Networks. <i>ACS Macro Letters</i> , 2022, 11, 475-483.	2.3	32
12	Anisotropic Thermal Transport in Thermoelectric Composites of Conjugated Polyelectrolytes/Single-Walled Carbon Nanotubes. <i>Macromolecules</i> , 2016, 49, 4957-4963.	2.2	31
13	Effect of Amine Hardener Molecular Structure on the Thermal Conductivity of Epoxy Resins. <i>ACS Applied Polymer Materials</i> , 2021, 3, 259-267.	2.0	30
14	Effect of Network Architecture and Linker Polarity on Ion Aggregation and Conductivity in Precise Polymerized Ionic Liquids. <i>ACS Macro Letters</i> , 2019, 8, 658-663.	2.3	28
15	Effect of Aromatic/Aliphatic Structure and Cross-Linking Density on the Thermal Conductivity of Epoxy Resins. <i>ACS Applied Polymer Materials</i> , 2021, 3, 1555-1562.	2.0	25
16	Determining multiple component glass transition temperatures in miscible polymer blends: Comparison of fluorescence spectroscopy and differential scanning calorimetry. <i>Polymer</i> , 2012, 53, 6118-6124.	1.8	24
17	Ion specific, odd-even glass transition temperatures and conductivities in precise network polymerized ionic liquids. <i>Molecular Systems Design and Engineering</i> , 2019, 4, 332-341.	1.7	24
18	Relaxation of Vitrimers with Kinetically Distinct Mixed Dynamic Bonds. <i>Macromolecules</i> , 2022, 55, 4450-4458.	2.2	24

#	ARTICLE	IF	CITATIONS
19	Improving the Gas Barrier Properties of Nafion via Thermal Annealing: Evidence for Diffusion through Hydrophilic Channels and Matrix. <i>Macromolecules</i> , 2015, 48, 3303-3309.	2.2	19
20	High Thermal Conductivity Semicrystalline Epoxy Resins with Anthraquinone-Based Hardeners. <i>ACS Applied Polymer Materials</i> , 2021, 3, 4430-4435.	2.0	19
21	Decoupling Mechanical and Conductive Dynamics of Polymeric Ionic Liquids via a Trivalent Anion Additive. <i>Macromolecules</i> , 2017, 50, 8979-8987.	2.2	18
22	Precise Network Polymerized Ionic Liquids for Low Voltage, Dopant-Free Soft Actuators. <i>Advanced Materials Technologies</i> , 2019, 4, 1800535.	3.0	18
23	Effect of Linker Length and Temperature on the Thermal Conductivity of Ethylene Dynamic Networks. <i>ACS Macro Letters</i> , 2021, 10, 1088-1093.	2.3	17
24	Structural Relaxation and Vitrification in Dense Cross-Linked Polymer Networks: Simulation, Theory, and Experiment. <i>Macromolecules</i> , 2022, 55, 4159-4173.	2.2	17
25	Understanding the Roles of Mesh Size, $T_g$ , and Segmental Dynamics on Probe Diffusion in Dense Polymer Networks. <i>Macromolecules</i> , 0, , .	2.2	13
26	Ion Gel Dynamic Templates for Large Modulation of Morphology and Charge Transport Properties of Solution-Coated Conjugated Polymer Thin Films. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 22561-22574.	4.0	12
27	Effect of Polymerized Ionic Liquid Structure and Morphology on Shockwave Energy Dissipation. <i>ACS Macro Letters</i> , 2019, 8, 535-539.	2.3	12
28	Effect of Molecular Weight on Viscosity Scaling and Ion Transport in Linear Polymerized Ionic Liquids. <i>Macromolecules</i> , 2021, 54, 3395-3404.	2.2	12
29	Impact of dynamic covalent chemistry and precise linker length on crystallization kinetics and morphology in ethylene vitrimers. <i>Soft Matter</i> , 2022, 18, 293-303.	1.2	12
30	Conductivity-modulus relationships in solvent-free, single lithium ion conducting network electrolytes. <i>Journal of Polymer Science</i> , 2020, 58, 2376-2388.	2.0	11
31	Solid-State, Single-Anion-Conducting Networks for Flexible and Stable Supercapacitor Electrolytes. <i>ACS Applied Polymer Materials</i> , 2021, 3, 4168-4176.	2.0	8
32	Ion Specific, Thin Film Confinement Effects on Conductivity in Polymerized Ionic Liquids. <i>Macromolecules</i> , 2021, 54, 10520-10528.	2.2	8
33	Role of Multivalent Interactions in Dynamic-Template-Directed Assembly of Conjugated Polymers. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 2753-2762.	4.0	7
34	Molecular Design of Precise Network Polymerized Ionic Liquid Membranes for Toluene/Heptane Separations. <i>Industrial &amp; Engineering Chemistry Research</i> , 2019, 58, 14389-14395.	1.8	6
35	Critical Role of Ion Exchange Conditions on the Properties of Network Ionic Polymers. <i>ACS Macro Letters</i> , 2020, 9, 1718-1725.	2.3	4
36	Effects of crosslinking density and Lewis acidic sites on conductivity and viscoelasticity of dynamic network electrolytes. <i>Journal of Polymer Science</i> , 0, , .	2.0	3