

Irune Villaluenga

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Nanostructured Ionic Separator Formed by Block Copolymer Self-Assembly: A Gateway for Alleviating Concentration Polarization in Batteries. <i>Macromolecules</i> , 2022, 55, 2787-2796.	4.8	3
2	Effect of Yield Stress on Stability of Block Copolymer Electrolytes against Lithium Metal Electrodes. <i>ACS Applied Energy Materials</i> , 2022, 5, 852-861.	5.1	8
3	Effect of crystallization of the polyhedral oligomeric silsesquioxane block on self-assembly in hybrid organic-inorganic block copolymers with salt. <i>Giant</i> , 2021, 6, 100055.	5.1	10
4	Effect of microphase separation on the limiting current density in hybrid organic-inorganic copolymer electrolytes. <i>Solid State Ionics</i> , 2021, 368, 115702.	2.7	5
5	Interplay between Mechanical and Electrochemical Properties of Block Copolymer Electrolytes and its Effect on Stability against Lithium Metal Electrodes. <i>Journal of the Electrochemical Society</i> , 2021, 168, 120546.	2.9	1
6	Optimizing the monomer structure of polyhedral oligomeric silsesquioxane for ion transport in hybrid organic-inorganic block copolymers. <i>Journal of Polymer Science</i> , 2020, 58, 363-371.	3.8	8
7	Reversible Changes in the Grain Structure and Conductivity in a Block Copolymer Electrolyte. <i>Macromolecules</i> , 2020, 53, 5455-5464.	4.8	11
8	Diffusion and migration in polymer electrolytes. <i>Progress in Polymer Science</i> , 2020, 103, 101220.	24.7	100
9	Lithium-Sulfur Batteries with a Block Copolymer Electrolyte Analyzed by X-ray Microtomography. <i>Journal of the Electrochemical Society</i> , 2020, 167, 060506.	2.9	5
10	Structure and Thermodynamics of Hybrid Organic-Inorganic Diblock Copolymers with Salt. <i>Macromolecules</i> , 2019, 52, 3165-3175.	4.8	18
11	Ion diffusion across a disorder-to-order phase transition in a poly(ethylene Terephthalate) based poly(ethylene oxide) electrolyte. <i>Journal of Membrane Science</i> , 2019, 583, 843-852.	3.4	6
12	Anisotropic Ion Diffusion and Electrochemically Driven Transport in Nanostructured Block Copolymer Electrolytes. <i>Journal of Physical Chemistry B</i> , 2018, 122, 1537-1544.	2.6	39
13	Polymer and composite electrolytes. <i>MRS Bulletin</i> , 2018, 43, 759-767.	3.5	60
14	Negative Stefan-Maxwell Diffusion Coefficients and Complete Electrochemical Transport Characterization of Homopolymer and Block Copolymer Electrolytes. <i>Journal of the Electrochemical Society</i> , 2018, 165, A2766-A2773.	2.9	81
15	Anomalous Self-Assembly and Ion Transport in Nanostructured Organic-Inorganic Solid Electrolytes. <i>ACS Macro Letters</i> , 2018, 7, 1056-1061.	4.8	27
16	Formation of disulfonated poly(arylene ether sulfone) thin film desalination membranes plasticized with poly(ethylene glycol) by solvent-free melt extrusion. <i>Polymer</i> , 2017, 109, 106-114.	3.8	9
17	Nanostructured Single-Ion-Conducting Hybrid Electrolytes Based on Salty Nanoparticles and Block Copolymers. <i>Macromolecules</i> , 2017, 50, 1998-2005.	4.8	53
18	Liquid Sulfur Impregnation of Microporous Carbon Accelerated by Nanoscale Interfacial Effects. <i>Nano Letters</i> , 2017, 17, 2517-2523.	9.1	16

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19	Crosslinked perfluoropolyether solid electrolytes for lithium ion transport. Solid State Ionics, 2017, 310, 71-80.	2.7	21
20	Negative Transference Numbers in Poly(ethylene oxide)-Based Electrolytes. Journal of the Electrochemical Society, 2017, 164, E3569-E3575.	2.9	178
21	Conductivity of carbonate- and perfluoropolyether-based electrolytes in porous separators. Journal of Power Sources, 2016, 323, 158-165.	7.8	24
22	Compliant glass-polymer hybrid single ion-conducting electrolytes for lithium batteries. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 52-57.	7.1	108
23	Nanoparticle-Driven Assembly of Highly Conducting Hybrid Block Copolymer Electrolytes. Macromolecules, 2015, 48, 358-364.	4.8	71
24	Dispersion and surface functionalization of oxide nanoparticles for transparent photocatalytic and UV-protecting coatings and sunscreens. Science and Technology of Advanced Materials, 2013, 14, 023001.	6.1	252
25	Cation only conduction in new polymer-SiO ₂ nanohybrids: Na ⁺ electrolytes. Journal of Materials Chemistry A, 2013, 1, 8348.	10.3	57
26	Na-ion batteries, recent advances and present challenges to become low cost energy storage systems. Energy and Environmental Science, 2012, 5, 5884.	30.8	3,078
27	Comparative study on the photocatalytic behaviour of titanium oxide thermal sprayed coatings from powders and suspensions. Surface and Coatings Technology, 2009, 203, 2150-2156.	4.8	65
28	Synthesis of Pyrrolo[1,2- <i>b</i>]isoquinolines through Mesityllithium-Mediated Intramolecular Carbolithiation. Synlett, 2008, 2008, 3188-3192.	1.8	4