

Irune Villaluenga

List of Publications by Year in descending order

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28
papers

4,318
citations

516710

16
h-index

501196

28
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all docs

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docs citations

28
times ranked

6701
citing authors

#	ARTICLE	IF	CITATIONS
1	Na-ion batteries, recent advances and present challenges to become low cost energy storage systems. <i>Energy and Environmental Science</i> , 2012, 5, 5884.	30.8	3,078
2	Dispersion and surface functionalization of oxide nanoparticles for transparent photocatalytic and UV-protecting coatings and sunscreens. <i>Science and Technology of Advanced Materials</i> , 2013, 14, 023001.	6.1	252
3	Negative Transference Numbers in Poly(ethylene oxide)-Based Electrolytes. <i>Journal of the Electrochemical Society</i> , 2017, 164, E3569-E3575.	2.9	178
4	Compliant glass-polymer hybrid single ion-conducting electrolytes for lithium batteries. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 52-57.	7.1	108
5	Diffusion and migration in polymer electrolytes. <i>Progress in Polymer Science</i> , 2020, 103, 101220.	24.7	100
6	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
7	Nanoparticle-Driven Assembly of Highly Conducting Hybrid Block Copolymer Electrolytes. <i>Macromolecules</i> , 2015, 48, 358-364.	4.8	71
8	Comparative study on the photocatalytic behaviour of titanium oxide thermal sprayed coatings from powders and suspensions. <i>Surface and Coatings Technology</i> , 2009, 203, 2150-2156.	4.8	65
9	Polymer and composite electrolytes. <i>MRS Bulletin</i> , 2018, 43, 759-767.	3.5	60
10	Cation only conduction in new polymer-SiO ₂ nanohybrids: Na ⁺ electrolytes. <i>Journal of Materials Chemistry A</i> , 2013, 1, 8348.	10.3	57
11	Nanostructured Single-Ion-Conducting Hybrid Electrolytes Based on Salty Nanoparticles and Block Copolymers. <i>Macromolecules</i> , 2017, 50, 1998-2005.	4.8	53
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	Anomalous Self-Assembly and Ion Transport in Nanostructured Organic-Inorganic Solid Electrolytes. <i>ACS Macro Letters</i> , 2018, 7, 1056-1061.	4.8	27
14	Conductivity of carbonate- and perfluoropolyether-based electrolytes in porous separators. <i>Journal of Power Sources</i> , 2016, 323, 158-165.	7.8	24
15	Crosslinked perfluoropolyether solid electrolytes for lithium ion transport. <i>Solid State Ionics</i> , 2017, 310, 71-80.	2.7	21
16	Structure and Thermodynamics of Hybrid Organic-Inorganic Diblock Copolymers with Salt. <i>Macromolecules</i> , 2019, 52, 3165-3175.	4.8	18
17	Liquid Sulfur Impregnation of Microporous Carbon Accelerated by Nanoscale Interfacial Effects. <i>Nano Letters</i> , 2017, 17, 2517-2523.	9.1	16
18	Reversible Changes in the Grain Structure and Conductivity in a Block Copolymer Electrolyte. <i>Macromolecules</i> , 2020, 53, 5455-5464.	4.8	11

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19	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
20	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
21	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
22	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
23	Ion diffusion across a disorder-to-order phase transition in a poly(ethylene Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 587 Td (oxid) Engineering, 2019, 4, 357-364.	3.4	6
24	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
25	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
26	Synthesis of Pyrrolo[1,2- <i>b</i>]isoquinolines through Mesityllithium-Mediated Intramolecular Carbolithiation. <i>Synlett</i> , 2008, 2008, 3188-3192.	1.8	4
27	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
28	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