Yuria Saito

List of Publications by Year in descending order

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46	1,275	361413 20	361022 35
papers	citations	h-index	g-index

46	46	46	1325
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Existing Condition and Migration Property of Ions in Lithium Electrolytes with Ionic Liquid Solvent. Journal of Physical Chemistry B, 2007, 111, 11794-11802.	2.6	121
2	Carrier Migration Mechanism of Physically Cross-Linked Polymer Gel Electrolytes Based on PVDF Membranes. Journal of Physical Chemistry B, 2002, 106, 7200-7204.	2.6	104
3	Conduction Mechanisms of PVDF-Type Gel Polymer Electrolytes of Lithium Prepared by a Phase Inversion Process. Journal of Physical Chemistry B, 2000, 104, 11460-11464.	2.6	84
4	Ionic Conduction Properties of PVDFâˆ’HFP Type Gel Polymer Electrolytes with Lithium Imide Salts. Journal of Physical Chemistry B, 2000, 104, 2189-2192.	2.6	79
5	Investigation of the Conduction Mechanisms of Lithium Gel Polymer Electrolytes Based on Electrical Conductivity and Diffusion Coefficient Using NMR. Macromolecules, 2001, 34, 6955-6958.	4.8	66
6	Direct Measurements of Ionic Mobility of Ionic Liquids Using the Electric Field Applying Pulsed Gradient Spinâˆ’Echo NMR. Journal of Physical Chemistry B, 2009, 113, 8466-8468.	2.6	60
7	Ionization Condition of Lithium Ionic Liquid Electrolytes under the Solvation Effect of Liquid and Solid Solvents. Journal of Physical Chemistry B, 2008, 112, 3357-3364.	2.6	51
8	Ionization State and Ion Migration Mechanism of Room Temperature Molten Dialkylimidazolium Fluorohydrogenates. Journal of Physical Chemistry B, 2005, 109, 2942-2948.	2.6	46
9	Ionic Mobility of Cation and Anion of Lithium Gel Electrolytes Measured by Pulsed Gradient Spinâˆ’Echo NMR Technique under Direct Electric Field. Journal of Physical Chemistry B, 2001, 105, 2546-2550.	2.6	43
10	Alkoxy chains in ionic liquid anions; effect of introducing ether oxygen into perfluoroalkylborate on physical and thermal properties. Chemical Communications, 2010, 46, 1730.	4.1	43
11	Ionic Conduction Mechanism of PEO-Type Polymer Electrolytes Investigated by the Carrier Diffusion Phenomenon Using PGSE-NMR. Macromolecules, 2002, 35, 6239-6244.	4.8	41
12	Ion Transport in Separator Membranes of Lithium Secondary Batteries. Journal of Physical Chemistry C, 2015, 119, 4702-4708.	3.1	39
13	Evaluation of Interactive Effects on the Ionic Conduction Properties of Polymer Gel Electrolytes. Journal of Physical Chemistry B, 2012, 116, 10089-10097.	2.6	38
14	Determination of ionic self-diffusion coefficients of lithium electrolytes using the pulsed field gradient NMR. Journal of Power Sources, 1999, 81-82, 772-776.	7.8	34
15	Factors Controlling the Ionic Mobility of Lithium Electrolyte Solutions in Separator Membranes. Journal of Physical Chemistry C, 2016, 120, 3619-3624.	3.1	33
16	Ionic Conduction Mechanisms of Polyvinylidenefluoride-Hexafluoropropylene Type Polymer Electrolytes with LiN(CF[sub 3]SO[sub 2])[sub 2]. Journal of the Electrochemical Society, 2000, 147, 1645.	2.9	31
17	Identification and formation mechanism of individual degradation products in lithiumâ€ion batteries studied by liquid chromatography/electrospray ionization mass spectrometry and atmospheric solid analysis probe mass spectrometry. Rapid Communications in Mass Spectrometry, 2016, 30, 1754-1762.	1.5	31
18	Interactive Effect of the Polymer on Carrier Migration Nature in the Chemically Cross-Linked Polymer Gel Electrolyte Composed of Poly(ethylene glycol) Dimethacrylate. Journal of Physical Chemistry B, 2002, 106, 12084-12087.	2.6	29

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19	Ionic Diffusion and Salt Dissociation Conditions of Lithium Liquid Crystal Electrolytes. Journal of Physical Chemistry B, 2005, 109, 11563-11571.	2.6	23
20	New Approached for Determining the Degree of Dissociation of a Salt by Measurements of Dynamic Properties of Lithium Ion Electrolytes. Journal of Physical Chemistry B, 2002, 106, 13064-13068.	2.6	22
21	Lithium Polymer Gel Electrolytes Designed to Control Ionic Mobility. Journal of Physical Chemistry C, 2014, 118, 6064-6068.	3.1	20
22	Conduction properties of lithium gel electrolytes investigated by impedance spectroscopy and pulsed-field gradient NMR with electric field. Electrochimica Acta, 2001, 46, 1747-1751.	5.2	19
23	Ionic Mobility Measurements Applying a Controlled Direct Electric Field on Pulsed Gradient Spin Echo Nuclear Magnetic Resonance. Journal of the Electrochemical Society, 2001, 148, E382.	2.9	17
24	Designing of a Urea-Containing Polymer Gel Electrolyte Based on the Concept of Activation of the Interaction between the Carrier Ion and Polymer. Journal of Physical Chemistry B, 2003, 107, 8805-8811.	2.6	15
25	Influence of the Morphological Characteristics of Separator Membranes on Ionic Mobility in Lithium Secondary Batteries. Journal of Physical Chemistry C, 2017, 121, 2512-2520.	3.1	15
26	Stress-Free Pathway for Ion Transport in the Separator Membrane of Lithium Secondary Batteries. Journal of Physical Chemistry C, 2018, 122, 18311-18315.	3.1	15
27	Factors Determining Ionic Mobility in Ion Migration Pathways of Polypropylene (PP) Separator for Lithium Secondary Batteries. Journal of Physical Chemistry C, 2019, 123, 21888-21895.	3.1	14
28	Effect of the Morphological Features of the Poly(vinylidene difluoride)-Based Gel Electrolytes on the Ionic Mobility for Lithium Secondary Batteries. Macromolecules, 2019, 52, 2112-2119.	4.8	14
29	Ionic mobilities of PVDF-based polymer gel electrolytes as studied by direct current NMR. Solid State Ionics, 2002, 152-153, 175-179.	2.7	13
30	Ionic Diffusion Mechanism of Glucitol-Containing Lithium Polymer Electrolytes. Macromolecules, 2005, 38, 6485-6491.	4.8	13
31	An approach of evaluating the effect of vinylene carbonate additive on graphite anode for lithium ion battery at elevated temperature. Electrochemistry Communications, 2015, 61, 70-73.	4.7	13
32	Understanding the Improved High-Temperature Cycling Stability of a LiNi_{0.5}Mn_{0.3}Co_{0.2}O₂/Graphite Cell with Vinylene Carbonate: A Comprehensive Analysis Approach Utilizing LC-MS and DART-MS. Journal of Physical Chemistry C, 2018, 122, 5864-5870.	3.1	13
33	Carrier Diffusivity in Porous Membranes. Journal of Physical Chemistry B, 2004, 108, 1137-1142.	2.6	11
34	Ion Transport in Solid Mediumâ€"Evaluation of Ionic Mobility for Design of Ion Transport Pathways in Separator and Gel Electrolyte. Membranes, 2021, 11, 277.	3.0	10
35	Lithium Storage Mechanism of Disordered Mesophase Carbon Fibers Studied by [sup 7]Li-Nuclear Magnetic Resonance. Electrochemical and Solid-State Letters, 2002, 5, A10.	2.2	9
36	A Selective Interaction between Cation and Separator Membrane in Lithium Secondary Batteries. Journal of Physical Chemistry C, 2017, 121, 23926-23930.	3.1	9

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37	Determination of Diffusion Rate and Accommodation State of Li in Mesophase Carbon for Anode Materials by NMR Spectroscopy. Journal of Physical Chemistry B, 2004, 108, 4008-4012.	2.6	6
38	Formation of thermally resistant films induced by vinylene carbonate additive on a hard carbon anode for lithium ion batteries at elevated temperature. RSC Advances, 2016, 6, 75777-75781.	3.6	6
39	Effect of Cross-Sectional Shape of Pathway on Ion Migration in Polyethylene Separators for Lithium-Ion Batteries. Journal of Physical Chemistry C, 2020, 124, 1827-1835.	3.1	6
40	Ion Mobility of 1-Ethyl-3-methylimidazolium Tetrafluoroborate and 1-Ethyl-3-methylimidazolium Bis(trifluorosulfonyl)amide Ionic Liquids. ECS Transactions, 2010, 25, 23-29.	0.5	5
41	Restricted Diffusion of Lithium Ions in Lithium Secondary Batteries. Journal of Physical Chemistry C, 2020, 124, 25712-25720.	3.1	4
42	Controlling Gel Morphology for Enhancing the Cation Mobility of Poly(vinylidene difluoride)-Based Gel Electrolytes for Lithium Secondary Batteries. Journal of Physical Chemistry C, 2020, 124, 14082-14088.	3.1	4
43	Proton Conduction Properties of Sulfonicacid Type Polymer Gel Electrolytes. Journal of Physical Chemistry C, 2009, 113, 3021-3028.	3.1	3
44	Effect of the Stretching Process of Polyethylene Separators on Rate Capability of Lithium-Ion Batteries. Journal of Physical Chemistry C, 2021, 125, 12496-12503.	3.1	3
45	Lithium Electrolyte Design on the Basis of Ion Dynamics Measurements and Analyses. Kobunshi Ronbunshu, 2006, 63, 41-53.	0.2	0
46	IONIC CONDUCTION MECHANISM OF POLYMER GEL ELECTROLYTES. , 2002, , .		0