Guinevere A Giffin

List of Publications by Year in descending order

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69 papers

3,418 citations

28 h-index 57 g-index

73 all docs 73 docs citations

times ranked

73

4908 citing authors

#	Article	IF	CITATIONS
1	Non-Aqueous K-lon Battery Based on Layered K _{0.3} MnO ₂ and Hard Carbon/Carbon Black. Journal of the Electrochemical Society, 2016, 163, A1295-A1299.	1.3	349
2	Unfolding the Mechanism of Sodium Insertion in Anatase TiO ₂ Nanoparticles. Advanced Energy Materials, 2015, 5, 1401142.	10.2	293
3	Appleâ€Biowasteâ€Derived Hard Carbon as a Powerful Anode Material for Naâ€lon Batteries. ChemElectroChem, 2016, 3, 292-298.	1.7	201
4	lonic liquid-based electrolytes for "beyond lithium―battery technologies. Journal of Materials Chemistry A, 2016, 4, 13378-13389.	5.2	168
5	Dendrite Growth in Mg Metal Cells Containing Mg(TFSI) < sub > 2 < /sub > /Glyme Electrolytes. Journal of the Electrochemical Society, 2018, 165, A1983-A1990.	1.3	124
6	Complex Nature of Ionic Coordination in Magnesium Ionic Liquid-Based Electrolytes: Solvates with Mobile Mg ²⁺ Cations. Journal of Physical Chemistry C, 2014, 118, 9966-9973.	1.5	121
7	Interplay between Structure and Relaxations in Perfluorosulfonic Acid Proton Conducting Membranes. Journal of the American Chemical Society, 2013, 135, 822-834.	6.6	100
8	Synthesis–Structure–Morphology Interplay of Bimetallic "Core–Shell―Carbon Nitride Nanoâ€electrocatalysts. ChemSusChem, 2012, 5, 2451-2459.	3.6	80
9	Interplay between Mechanical, Electrical, and Thermal Relaxations in Nanocomposite Proton Conducting Membranes Based on Nafion and a [(ZrO ₂)·(Ta ₂ O ₅) _{0.119}] Core–Shell Nanofiller. Journal of the American Chemical Society, 2012, 134, 19099-19107.	6.6	79
10	New Rollâ€toâ€Roll Processable PEDOTâ€Based Polymer with Colorless Bleached State for Flexible Electrochromic Devices. Advanced Functional Materials, 2020, 30, 1906254.	7.8	68
11	Insights into the Structure and Transport of the Lithium, Sodium, Magnesium, and Zinc Bis(trifluoromethansulfonyl)imide Salts in Ionic Liquids. Journal of Physical Chemistry C, 2018, 122, 20108-20121.	1.5	64
12	Characterization of sulfated-zirconia/Nafion $\hat{A}^{@}$ composite membranes for proton exchange membrane fuel cells. Journal of Power Sources, 2012, 198, 66-75.	4.0	58
13	Relevance of ion clusters for Li transport at elevated salt concentrations in [Pyr ₁₂₀₁][FTFSI] ionic liquid-based electrolytes. Chemical Communications, 2018, 54, 4278-4281.	2.2	56
14	Interplay between structure and properties in acid-base blend PBI-based membranes for HT-PEM fuel cells. Journal of Membrane Science, 2017, 535, 122-131.	4.1	54
15	Inorganic–organic membranes based on Nafion, [(ZrO2)·(HfO2)0.25] and [(SiO2)·(HfO2)0.28] nanoparticles. Part II: Relaxations and conductivity mechanism. International Journal of Hydrogen Energy, 2012, 37, 6215-6227.	3.8	51
16	Inorganic–organic membranes based on Nafion, [(ZrO2)·(HfO2)0.25] and [(SiO2)·(HfO2)0.28]. Part I: Synthesis, thermal stability and performance in a single PEMFC. International Journal of Hydrogen Energy, 2012, 37, 6199-6214.	3.8	50
17	Decoupling effective Li+ ion conductivity from electrolyte viscosity for improved room-temperature cell performance. Journal of Power Sources, 2017, 342, 335-341.	4.0	50
18	Beneficial effect of propane sultone and tris(trimethylsilyl) borate as electrolyte additives on the cycling stability of the lithium rich nickel manganese cobalt (NMC) oxide. Journal of Power Sources, 2016, 325, 525-533.	4.0	49

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19	Interplay between Structural and Dielectric Features of New Low k Hybrid Organic–Organometallic Supramolecular Ribbons. Crystal Growth and Design, 2012, 12, 297-305.	1.4	48
20	Connection between Lithium Coordination and Lithium Diffusion in [Pyr ₁₂₀₁][FTFSI] Ionic Liquid Electrolytes. ChemSusChem, 2018, 11, 1981-1989.	3.6	46
21	Influence of Anions on Proton-Conducting Membranes Based on Neutralized Nafion 117, Triethylammonium Methanesulfonate, and Triethylammonium Perfluorobutanesulfonate. 2. Electrical Properties. Journal of Physical Chemistry C, 2012, 116, 1370-1379.	1.5	44
22	Single-ion-conducting nanocomposite polymer electrolytes based on PEG400 and anionic nanoparticles: Part 2. Electrical characterization. International Journal of Hydrogen Energy, 2014, 39, 2884-2895.	3.8	38
23	Broadband electric spectroscopy of proton conducting SPEEK membranes. Journal of Membrane Science, 2012, 390-391, 58-67.	4.1	37
24	Structure–property interplay of proton conducting membranes based on PBI5N, SiO2–Im and H3PO4 for high temperature fuel cells. Physical Chemistry Chemical Physics, 2011, 13, 12146.	1.3	35
25	Influence of Anions on Proton-Conducting Membranes Based on Neutralized Nafion 117, Triethylammonium Methanesulfonate, and Triethylammonium Perfluorobutanesulfonate. 1. Synthesis and Properties. Journal of Physical Chemistry C, 2012, 116, 1361-1369.	1.5	35
26	Surface Modification of LiNi _{0.8} Co _{0.15} Al _{0.05} O ₂ Particles via Li ₃ PO ₄ Coating to Enable Aqueous Electrode Processing. ChemSusChem, 2020, 13, 5962-5971.	3.6	33
27	Impact of electrochemical and mechanical interactions on lithium-ion battery performance investigated by operando dilatometry. Journal of Power Sources, 2021, 488, 229457.	4.0	30
28	Interplay between solid state transitions, conductivity mechanisms, and electrical relaxations in a [PVBTMA] [Br]-b-PMB diblock copolymer membrane for electrochemical applications. Physical Chemistry Chemical Physics, 2015, 17, 31125-31139.	1.3	29
29	Influence of oligo(ethylene oxide) substituents on pyrrolidinium-based ionic liquid properties, Li ⁺ solvation and transport. Physical Chemistry Chemical Physics, 2016, 18, 21539-21547.	1.3	29
30	Interplay between the Structure and Relaxations in Selemion AMV Hydroxide Conducting Membranes for AEMFC Applications. Journal of Physical Chemistry C, 2012, 116, 23965-23973.	1.5	28
31	Mechanisms of Magnesium Ion Transport in Pyrrolidinium Bis(trifluoromethanesulfonyl)imide-Based Ionic Liquid Electrolytes. Journal of Physical Chemistry C, 2014, 118, 28361-28368.	1.5	28
32	A vibrational spectroscopic and modeling study of poly(2,5-benzimidazole) (ABPBI) – Phosphoric acid interactions in high temperature PEFC membranes. International Journal of Hydrogen Energy, 2014, 39, 2776-2784.	3.8	27
33	Li-doped N-methoxyethyl-N-methylpyrrolidinium fluorosulfonyl-(trifluoromethanesulfonyl)imide as electrolyte for reliable lithium ion batteries. Journal of Power Sources, 2014, 269, 645-650.	4.0	26
34	Avoiding Voltage-Induced Degradation in PET-ITO-Based Flexible Electrochromic Devices. ACS Applied Materials & Devices. 2020, 12, 36695-36705.	4.0	26
35	Molecular Relaxations in Magnesium Polymer Electrolytes via GHz Broadband Electrical Spectroscopy. ChemSusChem, 2013, 6, 2157-2160.	3.6	25
36	New Nanocomposite Hybrid Inorganic–Organic Proton onducting Membranes Based on Functionalized Silica and PTFE. ChemSusChem, 2012, 5, 1758-1766.	3.6	24

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37	Conformations and Vibrational Assignments of the (Fluorosulfonyl)(trifluoromethanesulfonyl)imide Anion in Ionic Liquids. Journal of Physical Chemistry C, 2013, 117, 24206-24212.	1.5	24
38	Effect of High Pressure CO ₂ on the Structure of PMMA: A FT-IR Study. Journal of Physical Chemistry B, 2011, 115, 13519-13525.	1.2	23
39	Implications of Aqueous Processing for High Energy Density Cathode Materials: Part I. Ni-Rich Layered Oxides. Journal of the Electrochemical Society, 2020, 167, 140512.	1.3	22
40	Vibrational Spectroscopy of Secondary Amine Salts: 1. Assignment of NH2+Stretching Frequencies in Crystalline Phases. Journal of Physical Chemistry B, 2009, 113, 15914-15920.	1.2	21
41	Interplay between chemical structure and ageing on mechanical and electric relaxations in poly(ether-block-amide)s. Polymer Degradation and Stability, 2013, 98, 1126-1137.	2.7	20
42	Implications of Aqueous Processing for High Energy Density Cathode Materials: Part II. Water-Induced Surface Species on LiNi $<$ sub $>$ 0.8 $<$ sub $>$ Co $<$ sub $>$ 0.15 $<$ sub $>$ Al $<$ sub $>$ 0.05 $<$ sub $>$ O $<$ sub $>$ 2 $<$ sub $>$ 2 $<$ sub $>$ 1 Journal of the Electrochemical Society, 2020, 167, 140535.	1.3	20
43	Microstructure Development and Dielectric Characterization of Forsteriteâ€Based Ceramics from Silicone Resins and Oxide Fillers. Advanced Engineering Materials, 2014, 16, 806-813.	1.6	19
44	New nanocomposite proton conducting membranes based on a core–shell nanofiller for low relative humidity fuel cells. RSC Advances, 2013, 3, 18960.	1.7	17
45	Impact of Bracing on Large Format Prismatic Lithiumâ€lon Battery Cells during Aging. Advanced Energy Materials, 2022, 12, .	10.2	17
46	Quantum Dots in a Polymer Composite: A Convenient Particle-in-a-Box Laboratory Experiment. Journal of Chemical Education, 2008, 85, 842.	1.1	14
47	New Sulfonated Poly(<i>p</i> pphenylenesulfone)/Poly(1-oxotrimethylene) Nanocomposite Proton-Conducting Membranes for PEMFCs. Chemistry of Materials, 2011, 23, 4452-4458.	3.2	12
48	Long-Term Cycling Performance of Aqueous Processed Ni-Rich LiNi _{0.8} Co _{0.15} Al _{0.05} O ₂ Cathodes. Journal of the Electrochemical Society, 2021, 168, 060511.	1.3	12
49	Spectroscopic investigation of proton-conducting, cross-linked linear poly(ethylenimine) hydrochloride membranes. Polymer, 2009, 50, 171-176.	1.8	11
50	Crystalline Complexes of Pyr ₁₂₀₁ TFSI-Based Ionic Liquid Electrolytes. Journal of Physical Chemistry C, 2015, 119, 5878-5887.	1.5	11
51	Broadband Electric Spectroscopy at High CO ₂ Pressure: Dipole Moment of CO ₂ –Poly(vinyl chloride) System. Journal of Physical Chemistry B, 2011, 115, 9014-9021.	1.2	10
52	Influence of external pressure on silicon electrodes in lithium-ion cells. Electrochimica Acta, 2022, 419, 140354.	2.6	9
53	Spectroscopic studies of polymer electrolytes based on poly(N-ethylethylenimine) and poly(N-methylethylenimine). Electrochimica Acta, 2005, 50, 3963-3968.	2.6	8
54	Redox Electrolytes for Hybrid Type II Electrochromic Devices with Feâ^'MEPE or Ni 1â^' x O as Electrode Materials. ChemElectroChem, 2020, 7, 3274-3283.	1.7	8

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55	Mixed metal oxides as optically-passive ion storage layers in electrochromic devices based on metallopolymers. Solar Energy Materials and Solar Cells, 2021, 223, 110950.	3.0	8
56	Quaternary Polymer Electrolytes Containing an Ionic Liquid and a Ceramic Filler. Macromolecular Rapid Communications, 2016, 37, 1188-1193.	2.0	7
57	Flexible electrochromic devices prepared on ultra-thin ITO glass. Materials Advances, 0, , .	2.6	6
58	Influence of basic carbon additives on the electrochemical performance of lead-carbon batteries. Journal of Energy Storage, 2021, 44, 103400.	3.9	6
59	Influence of the specific surface area of Stöber silica additives on the electrochemical properties of negative electrodes in lead-acid batteries. Journal of Energy Storage, 2021, 34, 102193.	3.9	5
60	Comparison of Dynamic Charge Acceptance Tests on Lead–Acid Cells for Carbon Additive Screening. Energy Technology, 0, , 2101051.	1.8	5
61	(Keynote Lecture) Multi-Metal Nano-Electrocatalysts Based on Carbon Nitride Supports for the ORR and FOR in PEM Fuel Cells. ECS Transactions, 2012, 40, 3-10.	0.3	4
62	How interdiffusion affects the electrochemical performance of LiMn ₂ O ₄ thin films on stainless steel. Materials Advances, 2021, 2, 2289-2298.	2.6	4
63	Electrochromic Polymer Ink Derived from a Sidechainâ€Modified EDOT for Electrochromic Devices with Colorless Bright State. ChemElectroChem, 2021, 8, 726-734.	1.7	4
64	Charge balancing and optical contrast optimization in Fe-MEPE/Ni1-xO electrochromic devices containing a Li reference electrode. Solar Energy Materials and Solar Cells, 2021, 227, 111080.	3.0	3
65	Abrasive Blasting of Lithium Metal Surfaces Yields Clean and 3Dâ€Structured Lithium Metal Anodes with Superior Properties. Energy Technology, 2021, 9, 2100455.	1.8	3
66	A lipophilic ionic liquid based on formamidinium cations and TFSI: the electric response and the effect of CO ₂ on the conductivity mechanism. Physical Chemistry Chemical Physics, 2017, 19, 26230-26239.	1.3	2
67	Dielectric spectroscopy of Pyr14TFSI and Pyr12O1TFSI ionic liquids. Electrochimica Acta, 2018, 274, 400-405.	2.6	1
68	Macromol. Rapid Commun. 14/2016. Macromolecular Rapid Communications, 2016, 37, 1228-1228.	2.0	0
69	A New In Situ and Operando Measurement Method to Determine the Electrical Conductivity of the Negative Active Material in Lead-Acid Batteries during Operation. Journal of the Electrochemical Society, 2021, 168, 050537.	1.3	O