

Guinevere A Giffin

List of Publications by Year in descending order

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69
papers

3,418
citations

185998

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143772

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73
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docs citations

73
times ranked

4908
citing authors

#	ARTICLE	IF	CITATIONS
1	Impact of Bracing on Large Format Prismatic Lithium-Ion Battery Cells during Aging. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	17
2	Influence of external pressure on silicon electrodes in lithium-ion cells. <i>Electrochimica Acta</i> , 2022, 419, 140354.	2.6	9
3	How interdiffusion affects the electrochemical performance of LiMn_2O_4 thin films on stainless steel. <i>Materials Advances</i> , 2021, 2, 2289-2298.	2.6	4
4	Influence of the specific surface area of Amber silica additives on the electrochemical properties of negative electrodes in lead-acid batteries. <i>Journal of Energy Storage</i> , 2021, 34, 102193.	3.9	5
5	Electrochromic Polymer Ink Derived from a Sidechain-Modified EDOT for Electrochromic Devices with Colorless Bright State. <i>ChemElectroChem</i> , 2021, 8, 726-734.	1.7	4
6	Impact of electrochemical and mechanical interactions on lithium-ion battery performance investigated by operando dilatometry. <i>Journal of Power Sources</i> , 2021, 488, 229457.	4.0	30
7	A New In Situ and Operando Measurement Method to Determine the Electrical Conductivity of the Negative Active Material in Lead-Acid Batteries during Operation. <i>Journal of the Electrochemical Society</i> , 2021, 168, 050537.	1.3	0
8	Mixed metal oxides as optically-passive ion storage layers in electrochromic devices based on metallopolymers. <i>Solar Energy Materials and Solar Cells</i> , 2021, 223, 110950.	3.0	8
9	Long-Term Cycling Performance of Aqueous Processed Ni-Rich $\text{LiNi}_{0.8}\text{Co}_{0.15}\text{Al}_{0.05}\text{O}_2$ Cathodes. <i>Journal of the Electrochemical Society</i> , 2021, 168, 060511.	1.3	12
10	Charge balancing and optical contrast optimization in Fe-MEPE/ Ni_{1-x}O electrochromic devices containing a Li reference electrode. <i>Solar Energy Materials and Solar Cells</i> , 2021, 227, 111080.	3.0	3
11	Abrasive Blasting of Lithium Metal Surfaces Yields Clean and 3D-Structured Lithium Metal Anodes with Superior Properties. <i>Energy Technology</i> , 2021, 9, 2100455.	1.8	3
12	Influence of basic carbon additives on the electrochemical performance of lead-carbon batteries. <i>Journal of Energy Storage</i> , 2021, 44, 103400.	3.9	6
13	New Roll-to-Roll Processable PEDOT-Based Polymer with Colorless Bleached State for Flexible Electrochromic Devices. <i>Advanced Functional Materials</i> , 2020, 30, 1906254.	7.8	68
14	Avoiding Voltage-Induced Degradation in PET-ITO-Based Flexible Electrochromic Devices. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 36695-36705.	4.0	26
15	Surface Modification of $\text{LiNi}_{0.8}\text{Co}_{0.15}\text{Al}_{0.05}\text{O}_2$ Particles via Li_3PO_4 Coating to Enable Aqueous Electrode Processing. <i>ChemSusChem</i> , 2020, 13, 5962-5971.	3.6	33
16	Redox Electrolytes for Hybrid Type II Electrochromic Devices with Fe^{II} -MEPE or Ni_{1-x}O as Electrode Materials. <i>ChemElectroChem</i> , 2020, 7, 3274-3283.	1.7	8
17	Implications of Aqueous Processing for High Energy Density Cathode Materials: Part I. Ni-Rich Layered Oxides. <i>Journal of the Electrochemical Society</i> , 2020, 167, 140512.	1.3	22
18	Implications of Aqueous Processing for High Energy Density Cathode Materials: Part II. Water-Induced Surface Species on $\text{LiNi}_{0.8}\text{Co}_{0.15}\text{Al}_{0.05}\text{O}_2$. <i>Journal of the Electrochemical Society</i> , 2020, 167, 140535.	1.3	20

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19	Dielectric spectroscopy of Pyr14TFSI and Pyr12O1TFSI ionic liquids. <i>Electrochimica Acta</i> , 2018, 274, 400-405.	2.6	1
20	Connection between Lithium Coordination and Lithium Diffusion in [Pyr ₁₂ O1][TFSI] Ionic Liquid Electrolytes. <i>ChemSusChem</i> , 2018, 11, 1981-1989.	3.6	46
21	Relevance of ion clusters for Li transport at elevated salt concentrations in [Pyr ₁₂ O1][TFSI] ionic liquid-based electrolytes. <i>Chemical Communications</i> , 2018, 54, 4278-4281.	2.2	56
22	Dendrite Growth in Mg Metal Cells Containing Mg(TFSI) ₂ /Glyme Electrolytes. <i>Journal of the Electrochemical Society</i> , 2018, 165, A1983-A1990.	1.3	124
23	Insights into the Structure and Transport of the Lithium, Sodium, Magnesium, and Zinc Bis(trifluoromethanesulfonyl)imide Salts in Ionic Liquids. <i>Journal of Physical Chemistry C</i> , 2018, 122, 20108-20121.	1.5	64
24	Interplay between structure and properties in acid-base blend PBI-based membranes for HT-PEM fuel cells. <i>Journal of Membrane Science</i> , 2017, 535, 122-131.	4.1	54
25	Decoupling effective Li ⁺ ion conductivity from electrolyte viscosity for improved room-temperature cell performance. <i>Journal of Power Sources</i> , 2017, 342, 335-341.	4.0	50
26	A lipophilic ionic liquid based on formamidinium cations and TFSI: the electric response and the effect of CO ₂ on the conductivity mechanism. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 26230-26239.	1.3	2
27	Influence of oligo(ethylene oxide) substituents on pyrrolidinium-based ionic liquid properties, Li ⁺ solvation and transport. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 21539-21547.	1.3	29
28	Macromol. Rapid Commun. 14/2016. <i>Macromolecular Rapid Communications</i> , 2016, 37, 1228-1228.	2.0	0
29	Ionic liquid-based electrolytes for "beyond lithium" battery technologies. <i>Journal of Materials Chemistry A</i> , 2016, 4, 13378-13389.	5.2	168
30	Apple "Biowaste" Derived Hard Carbon as a Powerful Anode Material for Na-Ion Batteries. <i>ChemElectroChem</i> , 2016, 3, 292-298.	1.7	201
31	Non-Aqueous K-Ion Battery Based on Layered K _{0.3} MnO ₂ and Hard Carbon/Carbon Black. <i>Journal of the Electrochemical Society</i> , 2016, 163, A1295-A1299.	1.3	349
32	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. <i>Journal of Power Sources</i> , 2016, 325, 525-533.	4.0	49
33	Quaternary Polymer Electrolytes Containing an Ionic Liquid and a Ceramic Filler. <i>Macromolecular Rapid Communications</i> , 2016, 37, 1188-1193.	2.0	7
34	Crystalline Complexes of Pyr ₁₂ O1TFSI-Based Ionic Liquid Electrolytes. <i>Journal of Physical Chemistry C</i> , 2015, 119, 5878-5887.	1.5	11
35	Interplay between solid state transitions, conductivity mechanisms, and electrical relaxations in a [PVBTMA] [Br]-b-PMB diblock copolymer membrane for electrochemical applications. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 31125-31139.	1.3	29
36	Unfolding the Mechanism of Sodium Insertion in Anatase TiO ₂ Nanoparticles. <i>Advanced Energy Materials</i> , 2015, 5, 1401142.	10.2	293

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37	Microstructure Development and Dielectric Characterization of Forsterite-Based Ceramics from Silicone Resins and Oxide Fillers. <i>Advanced Engineering Materials</i> , 2014, 16, 806-813.	1.6	19
38	Mechanisms of Magnesium Ion Transport in Pyrrolidinium Bis(trifluoromethanesulfonyl)imide-Based Ionic Liquid Electrolytes. <i>Journal of Physical Chemistry C</i> , 2014, 118, 28361-28368.	1.5	28
39	Li-doped N-methoxyethyl-N-methylpyrrolidinium fluorosulfonyl-(trifluoromethanesulfonyl)imide as electrolyte for reliable lithium ion batteries. <i>Journal of Power Sources</i> , 2014, 269, 645-650.	4.0	26
40	Complex Nature of Ionic Coordination in Magnesium Ionic Liquid-Based Electrolytes: Solvates with Mobile Mg^{2+} Cations. <i>Journal of Physical Chemistry C</i> , 2014, 118, 9966-9973.	1.5	121
41	Single-ion-conducting nanocomposite polymer electrolytes based on PEG400 and anionic nanoparticles: Part 2. Electrical characterization. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 2884-2895.	3.8	38
42	A vibrational spectroscopic and modeling study of poly(2,5-benzimidazole) (ABPBI) - Phosphoric acid interactions in high temperature PEFC membranes. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 2776-2784.	3.8	27
43	New nanocomposite proton conducting membranes based on a core-shell nanofiller for low relative humidity fuel cells. <i>RSC Advances</i> , 2013, 3, 18960.	1.7	17
44	Interplay between chemical structure and ageing on mechanical and electric relaxations in poly(ether-block-amide)s. <i>Polymer Degradation and Stability</i> , 2013, 98, 1126-1137.	2.7	20
45	Interplay between Structure and Relaxations in Perfluorosulfonic Acid Proton Conducting Membranes. <i>Journal of the American Chemical Society</i> , 2013, 135, 822-834.	6.6	100
46	Conformations and Vibrational Assignments of the (Fluorosulfonyl)(trifluoromethanesulfonyl)imide Anion in Ionic Liquids. <i>Journal of Physical Chemistry C</i> , 2013, 117, 24206-24212.	1.5	24
47	Molecular Relaxations in Magnesium Polymer Electrolytes via GHz Broadband Electrical Spectroscopy. <i>ChemSusChem</i> , 2013, 6, 2157-2160.	3.6	25
48	(Keynote Lecture) Multi-Metal Nano-Electrocatalysts Based on Carbon Nitride Supports for the ORR and FOR in PEM Fuel Cells. <i>ECS Transactions</i> , 2012, 40, 3-10.	0.3	4
49	Synthesis-Structure-Morphology Interplay of Bimetallic Core-Shell Carbon Nitride Nano-electrocatalysts. <i>ChemSusChem</i> , 2012, 5, 2451-2459.	3.6	80
50	Interplay between the Structure and Relaxations in Selemion AMV Hydroxide Conducting Membranes for AEMFC Applications. <i>Journal of Physical Chemistry C</i> , 2012, 116, 23965-23973.	1.5	28
51	Influence of Anions on Proton-Conducting Membranes Based on Neutralized Nafion 117, Triethylammonium Methanesulfonate, and Triethylammonium Perfluorobutanesulfonate. 2. Electrical Properties. <i>Journal of Physical Chemistry C</i> , 2012, 116, 1370-1379.	1.5	44
52	Influence of Anions on Proton-Conducting Membranes Based on Neutralized Nafion 117, Triethylammonium Methanesulfonate, and Triethylammonium Perfluorobutanesulfonate. 1. Synthesis and Properties. <i>Journal of Physical Chemistry C</i> , 2012, 116, 1361-1369.	1.5	35
53	Interplay between Structural and Dielectric Features of New Low k Hybrid Organic-Organometallic Supramolecular Ribbons. <i>Crystal Growth and Design</i> , 2012, 12, 297-305.	1.4	48
54	Interplay between Mechanical, Electrical, and Thermal Relaxations in Nanocomposite Proton Conducting Membranes Based on Nafion and a $[(ZrO_2)_2 \cdot (TaO_5)_{0.119}]$ Core-Shell Nanofiller. <i>Journal of the American Chemical Society</i> , 2012, 134, 19099-19107.	6.6	79

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55	New Nanocomposite Hybrid Inorganic-Organic Proton-Conducting Membranes Based on Functionalized Silica and PTFE. <i>ChemSusChem</i> , 2012, 5, 1758-1766.	3.6	24
56	Inorganic-organic membranes based on Nafion, [(ZrO ₂)·(HfO ₂) _{0.25}] and [(SiO ₂)·(HfO ₂) _{0.28}]. Part I: Synthesis, thermal stability and performance in a single PEMFC. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 6199-6214.	3.8	50
57	Inorganic-organic membranes based on Nafion, [(ZrO ₂)·(HfO ₂) _{0.25}] and [(SiO ₂)·(HfO ₂) _{0.28}] nanoparticles. Part II: Relaxations and conductivity mechanism. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 6215-6227.	3.8	51
58	Characterization of sulfated-zirconia/Nafion® composite membranes for proton exchange membrane fuel cells. <i>Journal of Power Sources</i> , 2012, 198, 66-75.	4.0	58
59	Broadband electric spectroscopy of proton conducting SPEEK membranes. <i>Journal of Membrane Science</i> , 2012, 390-391, 58-67.	4.1	37
60	Structure-property interplay of proton conducting membranes based on PBI5N, SiO ₂ and H ₃ PO ₄ for high temperature fuel cells. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 12146.	1.3	35
61	Broadband Electric Spectroscopy at High CO ₂ Pressure: Dipole Moment of CO ₂ and Relaxation Phenomena of the CO ₂ -Poly(vinyl chloride) System. <i>Journal of Physical Chemistry B</i> , 2011, 115, 9014-9021.	1.2	10
62	New Sulfonated Poly(<i>p</i> -phenylenesulfone)/Poly(1-oxotrimethylene) Nanocomposite Proton-Conducting Membranes for PEMFCs. <i>Chemistry of Materials</i> , 2011, 23, 4452-4458.	3.2	12
63	Effect of High Pressure CO ₂ on the Structure of PMMA: A FT-IR Study. <i>Journal of Physical Chemistry B</i> , 2011, 115, 13519-13525.	1.2	23
64	Spectroscopic investigation of proton-conducting, cross-linked linear poly(ethylenimine) hydrochloride membranes. <i>Polymer</i> , 2009, 50, 171-176.	1.8	11
65	Vibrational Spectroscopy of Secondary Amine Salts: 1. Assignment of NH ₂ -Stretching Frequencies in Crystalline Phases. <i>Journal of Physical Chemistry B</i> , 2009, 113, 15914-15920.	1.2	21
66	Quantum Dots in a Polymer Composite: A Convenient Particle-in-a-Box Laboratory Experiment. <i>Journal of Chemical Education</i> , 2008, 85, 842.	1.1	14
67	Spectroscopic studies of polymer electrolytes based on poly(N-ethylethylenimine) and poly(N-methylethylenimine). <i>Electrochimica Acta</i> , 2005, 50, 3963-3968.	2.6	8
68	Flexible electrochromic devices prepared on ultra-thin ITO glass. <i>Materials Advances</i> , 0, , .	2.6	6
69	Comparison of Dynamic Charge Acceptance Tests on Lead-Acid Cells for Carbon Additive Screening. <i>Energy Technology</i> , 0, , 2101051.	1.8	5