

Justin G Connell

List of Publications by Year in descending order

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times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Increasing Ionic Conductivity of Poly(ethylene oxide) by Reaction with Metallic Li. <i>Advanced Energy and Sustainability Research</i> , 2022, 3, 2100142.	2.8	15
2	Electrochemically induced amorphous-to-rock-salt phase transformation in niobium oxide electrode for Li-ion batteries. <i>Nature Materials</i> , 2022, 21, 795-803.	13.3	69
3	Communication—Reduction of DC Resistance of Ni-Rich Lithium Transition Metal Oxide Cathode by Atomic Layer Deposition. <i>Journal of the Electrochemical Society</i> , 2021, 168, 040501.	1.3	6
4	(Invited) Developing Common Descriptors for Plating/Stripping of Divalent Metals in Organic Electrolytes. <i>ECS Meeting Abstracts</i> , 2021, MA2021-01, 418-418.	0.0	0
5	Improved Rate for the Oxygen Reduction Reaction in a Sulfuric Acid Electrolyte using a Pt(111) Surface Modified with Melamine. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 3369-3376.	4.0	29
6	Alkaline Ethanol Oxidation Reaction on Carbon Supported Ternary PdNiBi Nanocatalyst using Modified Instant Reduction Synthesis Method. <i>Electrocatalysis</i> , 2020, 11, 203-214.	1.5	18
7	Anion Association Strength as a Unifying Descriptor for the Reversibility of Divalent Metal Deposition in Nonaqueous Electrolytes. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 36137-36147.	4.0	22
8	Kinetic versus Thermodynamic Stability of LLZO in Contact with Lithium Metal. <i>Chemistry of Materials</i> , 2020, 32, 10207-10215.	3.2	68
9	4-(Trimethylsilyl) Morpholine as a Multifunctional Electrolyte Additive in High Voltage Lithium Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2020, 167, 070533.	1.3	12
10	Unusual Reduction of Graphene Oxide by Titanium Dioxide Electrons Produced by Ionizing Radiation: Reaction Products and Mechanism. <i>Journal of Physical Chemistry C</i> , 2020, 124, 5425-5435.	1.5	4
11	Developing Common Descriptors for Plating/Stripping of Divalent Metals in Organic Electrolytes. <i>ECS Meeting Abstracts</i> , 2020, MA2020-01, 172-172.	0.0	0
12	Control of Electrolyte Reactivity: A New Design of Electrolyte Additives for High Voltage Lithium Ion Batteries. <i>ECS Meeting Abstracts</i> , 2020, MA2020-02, 736-736.	0.0	0
13	Tuning the Selectivity and Activity of Electrochemical Interfaces with Defective Graphene Oxide and Reduced Graphene Oxide. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 34517-34525.	4.0	29
14	Widening Electrochemical Window of Mg Salt by Weakly Coordinating Perfluoroalkoxyaluminate Anion for Mg Battery Electrolyte. <i>Journal of the Electrochemical Society</i> , 2019, 166, A1510-A1519.	1.3	60
15	Dopant-Dependent Stability of Garnet Solid Electrolyte Interfaces with Lithium Metal. <i>Advanced Energy Materials</i> , 2019, 9, 1803440.	10.2	217
16	Hydrogen Evolution Reaction on Transition Metals: Promoting Water Dissociation By Tuning the Surface Oxophilicity. <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	0
17	Electrocatalytic transformation of HF impurity to H ₂ and LiF in lithium-ion batteries. <i>Nature Catalysis</i> , 2018, 1, 255-262.	16.1	128
18	Crystal Orientation-Dependent Reactivity of Oxide Surfaces in Contact with Lithium Metal. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 17471-17479.	4.0	9

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19	Role of structural hydroxyl groups in enhancing performance of electrochemically-synthesized bilayer V ₂ O ₅ . <i>Nano Energy</i> , 2018, 53, 449-457.	8.2	21
20	Real-Time Monitoring of Cation Dissolution/Deintercalation Kinetics from Transition-Metal Oxides in Organic Environments. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 4935-4940.	2.1	15
21	Amorphous boron nanorod as an anode material for lithium-ion batteries at room temperature. <i>Nanoscale</i> , 2017, 9, 10757-10763.	2.8	23
22	Lithium metal protected by atomic layer deposition metal oxide for high performance anodes. <i>Journal of Materials Chemistry A</i> , 2017, 5, 12297-12309.	5.2	150
23	Early Stage Anodic Instability of Glassy Carbon Electrodes in Propylene Carbonate Solvent Containing Lithium Hexafluorophosphate. <i>Langmuir</i> , 2017, 33, 11911-11918.	1.6	3
24	Long term stability of Li-S batteries using high concentration lithium nitrate electrolytes. <i>Nano Energy</i> , 2017, 40, 607-617.	8.2	160
25	Improved performance through tight coupling of redox cycles of sulfur and 2,6-polyanthraquinone in lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 24103-24109.	5.2	6
26	Molecular understanding of polyelectrolyte binders that actively regulate ion transport in sulfur cathodes. <i>Nature Communications</i> , 2017, 8, 2277.	5.8	117
27	Mechanistic Insight in the Function of Phosphite Additives for Protection of LiNi _{0.5} Co _{0.2} Mn _{0.3} O ₂ Cathode in High Voltage Li-Ion Cells. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 11450-11458.	4.0	121
28	Tuning the Reversibility of Mg Anodes via Controlled Surface Passivation by H ₂ O/Cl ⁻ in Organic Electrolytes. <i>Chemistry of Materials</i> , 2016, 28, 8268-8277.	3.2	147
29	Superoxide (Electro)Chemistry on Well-Defined Surfaces in Organic Environments. <i>Journal of Physical Chemistry C</i> , 2016, 120, 15909-15914.	1.5	25
30	Relationships between Atomic Level Surface Structure and Stability/Activity of Platinum Surface Atoms in Aqueous Environments. <i>ACS Catalysis</i> , 2016, 6, 2536-2544.	5.5	196
31	Double layer effects in electrocatalysis: The oxygen reduction reaction and ethanol oxidation reaction on Au(1 1 1), Pt(1 1 1) and Ir(1 1 1) in alkaline media containing Na and Li cations. <i>Catalysis Today</i> , 2016, 262, 41-47.	2.2	67
32	Water as a Promoter and Catalyst for Dioxygen Electrochemistry in Aqueous and Organic Media. <i>ACS Catalysis</i> , 2015, 5, 6600-6607.	5.5	98
33	Activity-stability relationship in the surface electrochemistry of the oxygen evolution reaction. <i>Faraday Discussions</i> , 2014, 176, 125-133.	1.6	83
34	In Situ Electron Microscopy Four-Point Electromechanical Characterization of Freestanding Metallic and Semiconducting Nanowires. <i>Small</i> , 2014, 10, 725-733.	5.2	40
35	Barrier Height Measurement of Metal Contacts to Si Nanowires Using Internal Photoemission of Hot Carriers. <i>Nano Letters</i> , 2013, 13, 6183-6188.	4.5	31
36	Demonstration of an Electrochemical Liquid Cell for Operando Transmission Electron Microscopy Observation of the Lithiation/Delithiation Behavior of Si Nanowire Battery Anodes. <i>Nano Letters</i> , 2013, 13, 6106-6112.	4.5	265

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37	Electron-Rich Driven Electrochemical Solid-State Amorphization in Li _x Si Alloys. Nano Letters, 2013, 13, 4511-4516.	4.5	51
38	Identification of an Intrinsic Source of Doping Inhomogeneity in Vapor-Liquid-Solid-Grown Nanowires. Nano Letters, 2013, 13, 199-206.	4.5	54
39	Electron Tomography of Au-Catalyzed Semiconductor Nanowires. Journal of Physical Chemistry C, 2013, 117, 1059-1063.	1.5	12
40	Spatially Resolved Correlation of Active and Total Doping Concentrations in VLS Grown Nanowires. Nano Letters, 2013, 13, 2598-2604.	4.5	40
41	Electronic Origin for the Phase Transition from Amorphous Li ₁₅ Si ₄ to Crystalline Li ₁₅ Si ₄ . ACS Nano, 2013, 7, 6303-6309.	7.3	135
42	Raman concentrators in Ge nanowires with dielectric coatings. Optics Express, 2012, 20, 5127.	1.7	4
43	Atypical Self-Activation of Ga Dopant for Ge Nanowire Devices. Nano Letters, 2011, 11, 3108-3112.	4.5	16
44	Silicon Nanowire Polytypes: Identification by Raman Spectroscopy, Generation Mechanism, and Misfit Strain in Homostructures. ACS Nano, 2011, 5, 8958-8966.	7.3	66
45	Growth of Ge Nanowires from Au-Cu Alloy Nanoparticle Catalysts Synthesized from Aqueous Solution. Journal of Physical Chemistry Letters, 2010, 1, 3360-3365.	2.1	23
46	Interaction of Antithrombin with Sulfated, Low Molecular Weight Lignins. Journal of Biological Chemistry, 2009, 284, 20897-20908.	1.6	38