

Susan A Odom

List of Publications by Year in descending order

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65
papers

4,829
citations

147801

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docs citations

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times ranked

6563
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#	ARTICLE	IF	CITATIONS
1	Steric Manipulation as a Mechanism for Tuning the Reduction and Oxidation Potentials of Phenothiazines. <i>Journal of Physical Chemistry A</i> , 2021, 125, 272-278.	2.5	9
2	Overcharge protection of lithium-ion batteries with phenothiazine redox shuttles. <i>New Journal of Chemistry</i> , 2021, 45, 3750-3755.	2.8	6
3	Dual function organic active materials for nonaqueous redox flow batteries. <i>Materials Advances</i> , 2021, 2, 1390-1401.	5.4	33
4	Ethynylated Acene Synthesis and Photophysics for an Organic Chemistry Laboratory Course. <i>Journal of Chemical Education</i> , 2021, 98, 1741-1749.	2.3	1
5	Comparison of Separators vs Membranes in Nonaqueous Redox Flow Battery Electrolytes Containing Small Molecule Active Materials. <i>ACS Applied Energy Materials</i> , 2021, 4, 5443-5451.	5.1	20
6	Comparative Study of Organic Radical Cation Stability and Coulombic Efficiency for Nonaqueous Redox Flow Battery Applications. <i>Journal of Physical Chemistry C</i> , 2021, 125, 14170-14179.	3.1	14
7	Crowded electrolytes containing redoxmers in different states of charge: Solution structure, properties, and fundamental limits on energy density. <i>Journal of Molecular Liquids</i> , 2021, 334, 116533.	4.9	18
8	Experimental Protocols for Studying Organic Non-aqueous Redox Flow Batteries. <i>ACS Energy Letters</i> , 2021, 6, 3932-3943.	17.4	25
9	A Nonaqueous Redox Flow Battery Operating over an 80 Degrees Celsius Temperature Range. <i>ECS Meeting Abstracts</i> , 2021, MA2021-02, 110-110.	0.0	0
10	Combined Computational and Experimental Approach to Determine and Understand the Solubility of Phenothiazines as Redoxmers. <i>ECS Meeting Abstracts</i> , 2021, MA2021-02, 1679-1679.	0.0	0
11	A stable, highly oxidizing radical cation. <i>New Journal of Chemistry</i> , 2020, 44, 18138-18148.	2.8	8
12	Viscous flow properties and hydrodynamic diameter of phenothiazine-based redox-active molecules in different supporting salt environments. <i>Physics of Fluids</i> , 2020, 32, .	4.0	17
13	Improved synthesis of N-ethyl-3,7-bis(trifluoromethyl)phenothiazine. <i>New Journal of Chemistry</i> , 2020, 44, 11349-11355.	2.8	7
14	Mitigating Chemical Paths to Capacity Fade in Organic Flow Batteries. <i>CheM</i> , 2020, 6, 1207-1209.	11.7	2
15	Quantifying Environmental Effects on the Solution and Solid-State Stability of a Phenothiazine Radical Cation. <i>Chemistry of Materials</i> , 2020, 32, 3007-3017.	6.7	26
16	Tailoring Two-Electron-Donating Phenothiazines To Enable High-Concentration Redox Electrolytes for Use in Nonaqueous Redox Flow Batteries. <i>Chemistry of Materials</i> , 2019, 31, 4353-4363.	6.7	92
17	Extending the Lifetime of Organic Flow Batteries via Redox State Management. <i>Journal of the American Chemical Society</i> , 2019, 141, 8014-8019.	13.7	151
18	Preventing Crossover in Redox Flow Batteries through Active Material Oligomerization. <i>ACS Central Science</i> , 2018, 4, 140-141.	11.3	15

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19	Application of Cross-Linked Polyborosiloxanes and Organically Modified Boron Silicate Binders in Silicon-Containing Anodes for Lithium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2018, 165, A731-A735.	2.9	9
20	Determining Parasitic Reaction Enthalpies in Lithium-Ion Cells Using Isothermal Microcalorimetry. <i>Journal of the Electrochemical Society</i> , 2018, 165, A3449-A3458.	2.9	16
21	A Less Basic, Basic Organic Flow Battery. <i>Joule</i> , 2018, 2, 1652-1653.	24.0	0
22	Beyond the Hammett Effect: Using Strain to Alter the Landscape of Electrochemical Potentials. <i>ChemPhysChem</i> , 2017, 18, 2142-2146.	2.1	10
23	A stable two-electron-donating phenothiazine for application in nonaqueous redox flow batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 24371-24379.	10.3	105
24	Molten Zinc Alloys for Lower Temperature, Lower Cost Liquid Metal Batteries. <i>Advanced Materials Technologies</i> , 2016, 1, 1600035.	5.8	10
25	High current density, long duration cycling of soluble organic active species for non-aqueous redox flow batteries. <i>Energy and Environmental Science</i> , 2016, 9, 3531-3543.	30.8	196
26	Cathode candidates for zinc-based thermal-electrochemical energy storage. <i>International Journal of Energy Research</i> , 2016, 40, 393-399.	4.5	7
27	Overcharge protection of lithium-ion batteries above 4 V with a perfluorinated phenothiazine derivative. <i>Journal of Materials Chemistry A</i> , 2016, 4, 5410-5414.	10.3	24
28	Carbonic anhydrase mimics for enhanced CO ₂ absorption in an amine-based capture solvent. <i>Dalton Transactions</i> , 2016, 45, 324-333.	3.3	23
29	Overcharge Performance of 3,7-Bis(trifluoromethyl)-N-ethylphenothiazine at High Concentration in Lithium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2016, 163, A1-A7.	2.9	31
30	On the Stability and Reactivity of Redox Shuttles in Their Neutral and Radical Cation Forms. <i>Materials Research Society Symposia Proceedings</i> , 2015, 1740, 58.	0.1	0
31	A Highly Soluble Organic Catholyte for Non-Aqueous Redox Flow Batteries. <i>Energy Technology</i> , 2015, 3, 476-480.	3.8	108
32	The fate of phenothiazine-based redox shuttles in lithium-ion batteries. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 6905-6912.	2.8	40
33	A Highly Soluble Redox Shuttle with Superior Rate Performance in Overcharge Protection. <i>Materials Research Society Symposia Proceedings</i> , 2015, 1740, 19.	0.1	0
34	Substituted Phenothiazine Derivatives: How the Stability of the Neutral and Radical Cation Forms Affects Overcharge Performance in Lithium-Ion Batteries. <i>ChemPhysChem</i> , 2015, 16, 1179-1189.	2.1	59
35	Overcharge performance of 3,7-disubstituted N-ethylphenothiazine derivatives in lithium-ion batteries. <i>Chemical Communications</i> , 2014, 50, 5339-5341.	4.1	47
36	A fast, inexpensive method for predicting overcharge performance in lithium-ion batteries. <i>Energy and Environmental Science</i> , 2014, 7, 760-767.	30.8	45

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37	Improving carbon capture from power plant emissions with zinc- and cobalt-based catalysts. <i>Catalysis Science and Technology</i> , 2014, 4, 3620-3625.	4.1	28
38	3,7-Bis(trifluoromethyl)-N-ethylphenothiazine: a redox shuttle with extensive overcharge protection in lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 18190-18193.	10.3	41
39	Controlling Oxidation Potentials in Redox Shuttle Candidates for Lithium-Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2014, 118, 14824-14832.	3.1	31
40	Tuning Delocalization in the Radical Cations of 1,4-Bis[4-(diarylamino)styryl]benzenes, 2,5-Bis[4-(diarylamino)styryl]thiophenes, and 2,5-Bis[4-(diarylamino)styryl]pyrroles through Substituent Effects. <i>Journal of the American Chemical Society</i> , 2012, 134, 10146-10155.	13.7	72
41	A Self-Healing Conductive Ink. <i>Advanced Materials</i> , 2012, 24, 2578-2581.	21.0	143
42	Visual Indication of Mechanical Damage Using Core-Shell Microcapsules. <i>ACS Applied Materials & Interfaces</i> , 2011, 3, 4547-4551.	8.0	57
43	Triggered Release from Polymer Capsules. <i>Macromolecules</i> , 2011, 44, 5539-5553.	4.8	534
44	Restoration of Conductivity with TTF-CNQ Charge-Transfer Salts. <i>Advanced Functional Materials</i> , 2010, 20, 1721-1727.	14.9	127
45	Electronic Properties of the 2,6-Diiododithieno[3,2- <i>b</i> :5,6- <i>b'</i>]thiophene Molecule and Crystal: A Joint Experimental and Theoretical Study. <i>Journal of Physical Chemistry B</i> , 2010, 114, 749-755.	2.6	21
46	Electronic and Optical Properties of 4-Hydroxy-Cyclopenta[2,1- <i>b</i> :3,4- <i>b'</i>]bithiophene Derivatives and Their 4-Heteroatom-Substituted Analogues: A Joint Theoretical and Experimental Comparison. <i>Journal of Physical Chemistry B</i> , 2010, 114, 14397-14407.	2.6	64
47	Masked Cyanoacrylates Unveiled by Mechanical Force. <i>Journal of the American Chemical Society</i> , 2010, 132, 4558-4559.	13.7	149
48	Photophysical Properties of an Alkyne-Bridged Bis(zinc porphyrin)-Perylene Bis(dicarboximide) Derivative. <i>Journal of Physical Chemistry A</i> , 2009, 113, 10826-10832.	2.5	41
49	Synthesis and Two-Photon Spectrum of a Bis(Porphyrin)-Substituted Squaraine. <i>Journal of the American Chemical Society</i> , 2009, 131, 7510-7511.	13.7	81
50	Linear and Nonlinear Spectroscopy of a Porphyrin-Squaraine-Porphyrin Conjugated System. <i>Journal of Physical Chemistry B</i> , 2009, 113, 14854-14867.	2.6	42
51	Synthesis and Photophysical Properties of Donor- and Acceptor-Substituted 1,7-Bis(aryalkynyl)perylene-3,4:9,10-bis(dicarboximide)s. <i>Journal of Physical Chemistry A</i> , 2009, 113, 5585-5593.	2.5	82
52	Intramolecular Electron-Transfer Rates in Mixed-Valence Triarylamines: Measurement by Variable-Temperature ESR Spectroscopy and Comparison with Optical Data. <i>Journal of the American Chemical Society</i> , 2009, 131, 1717-1723.	13.7	75
53	Mechanically-Induced Chemical Changes in Polymeric Materials. <i>Chemical Reviews</i> , 2009, 109, 5755-5798.	47.7	1,130
54	A Spray-Processable, Low Bandgap, and Ambipolar Donor-Acceptor Conjugated Polymer. <i>Journal of the American Chemical Society</i> , 2009, 131, 2824-2826.	13.7	214

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55	Thick Optical-Quality Films of Substituted Polyacetylenes with Large, Ultrafast Third-Order Nonlinearities and Application to Image Correlation. <i>Advanced Materials</i> , 2008, 20, 3199-3203.	21.0	18
56	Stabilisation of a heptamethine cyanine dye by rotaxane encapsulation. <i>Chemical Communications</i> , 2008, , 2897.	4.1	79
57	Processible Polyacetylene-Based π^3 Materials for Photonic Applications. , 2007, , .		0
58	Bis[bis(alkoxyphenyl)amino] Derivatives of Dithienylethene, Bithiophene, Dithienothiophene and Dithienopyrrole: Palladium-Catalysed Synthesis and Highly Delocalised Radical Cations. <i>Chemistry - A European Journal</i> , 2007, 13, 9637-9646.	3.3	72
59	Toward the realization of practicable materials for π^3 based photonic applications. , 2006, , .		0
60	Persistent photo-excited conducting states in functionalized pentacene. <i>Synthetic Metals</i> , 2005, 152, 449-452.	3.9	5
61	Aromatic Amines: A Comparison of Electron-Donor Strengths. <i>Journal of Physical Chemistry A</i> , 2005, 109, 9346-9352.	2.5	134
62	Persistent photoexcited conducting states in functionalized pentacene. <i>Journal of Applied Physics</i> , 2004, 96, 3312-3318.	2.5	23
63	Transport and melt processing in functionalized pentacene with π -organic wire-connections. <i>Current Applied Physics</i> , 2004, 4, 479-483.	2.4	1
64	Stable, Crystalline Acenedithiophenes with up to Seven Linearly Fused Rings. <i>Organic Letters</i> , 2004, 6, 3325-3328.	4.6	199
65	Tetracene Derivatives as Potential Red Emitters for Organic LEDs. <i>Organic Letters</i> , 2003, 5, 4245-4248.	4.6	182