

# Martin SjÅrdin

## List of Publications by Year in descending order

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57  
papers

2,180  
citations

257357

24  
h-index

223716

46  
g-index

59  
all docs

59  
docs citations

59  
times ranked

2197  
citing authors

#	ARTICLE	IF	CITATIONS
1	Proton-Coupled Electron Transfer from Tyrosine in a Tyrosine <sup>+</sup> Ruthenium <sup>+</sup> tris-Bipyridine Complex: A Comparison with Tyrosine Oxidation in Photosystem II. <i>Journal of the American Chemical Society</i> , 2000, 122, 3932-3936.	6.6	262
2	Switching the Redox Mechanism: A Models for Proton-Coupled Electron Transfer from Tyrosine and Tryptophan. <i>Journal of the American Chemical Society</i> , 2005, 127, 3855-3863.	6.6	224
3	An All-Organic Proton Battery. <i>Journal of the American Chemical Society</i> , 2017, 139, 4828-4834.	6.6	194
4	Proton-Coupled Electron Transfer of Tyrosine Oxidation: A Buffer Dependence and Parallel Mechanisms. <i>Journal of the American Chemical Society</i> , 2007, 129, 15462-15464.	6.6	193
5	Paper-Based Energy Storage Devices Comprising Carbon Fiber-Reinforced Polypyrrole-Cladophora Nanocellulose Composite Electrodes. <i>Advanced Energy Materials</i> , 2012, 2, 445-454.	10.2	154
6	An Aqueous Conducting Redox-Polymer-Based Proton Battery that Can Withstand Rapid Constant Voltage Charging and Sub-Zero Temperatures. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 9631-9638.	7.2	80
7	Tuning proton coupled electron transfer from tyrosine: A competition between concerted and step-wise mechanisms. <i>Physical Chemistry Chemical Physics</i> , 2004, 6, 4851-4858.	1.3	72
8	Designing strategies to tune reduction potential of organic molecules for sustainable high capacity battery application. <i>Journal of Materials Chemistry A</i> , 2017, 5, 4430-4454.	5.2	61
9	The mechanism for proton-coupled electron transfer from tyrosine in a model complex and comparisons with Y Z oxidation in photosystem II. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2002, 357, 1471-1479.	1.8	54
10	Characterization of PEDOT-Quinone Conducting Redox Polymers for Water Based Secondary Batteries. <i>Electrochimica Acta</i> , 2017, 235, 356-364.	2.6	54
11	Structural Changes of Mercaptohexanol Self-Assembled Monolayers on Gold and Their Influence on Impedimetric Aptamer Sensors. <i>Analytical Chemistry</i> , 2019, 91, 14697-14704.	3.2	52
12	Computational Electrochemistry Study of 16 Isoindole-4,7-diones as Candidates for Organic Cathode Materials. <i>Journal of Physical Chemistry C</i> , 2012, 116, 3793-3801.	1.5	43
13	Polymer Pendant Interactions in Poly(pyrrol-3-ylhydroquinone): A Solution for the Use of Conducting Polymers at Stable Conditions. <i>Journal of Physical Chemistry C</i> , 2013, 117, 23558-23567.	1.5	38
14	Ion- and Electron Transport in Pyrrole/Quinone Conducting Redox Polymers Investigated by In Situ Conductivity Methods. <i>Electrochimica Acta</i> , 2015, 179, 336-342.	2.6	37
15	Impact of linker in polypyrrole/quinone conducting redox polymers. <i>RSC Advances</i> , 2015, 5, 11309-11316.	1.7	31
16	Nonstoichiometric Triazolium Protic Ionic Liquids for All-Organic Batteries. <i>ACS Applied Energy Materials</i> , 2018, 1, 6451-6462.	2.5	31
17	Stable Deep Doping of Vapor-Phase Polymerized Poly(3,4-ethylenedioxythiophene)/Ionic Liquid Supercapacitors. <i>ChemSusChem</i> , 2016, 9, 2112-2121.	3.6	30
18	Characterization of PEDOT-Quinone conducting redox polymers in water-in-salt electrolytes for safe and high-energy Li-ion batteries. <i>Electrochemistry Communications</i> , 2019, 105, 106489.	2.3	30

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19	Probing Polymerâ€“Pendant Interactions in the Conducting Redox Polymer Poly(pyrrol-3-ylhydroquinone). <i>Journal of Physical Chemistry C</i> , 2014, 118, 23499-23508.	1.5	29
20	Investigating electron transport in a PEDOT/Quinone conducting redox polymer with in situ methods. <i>Electrochimica Acta</i> , 2019, 308, 277-284.	2.6	28
21	Rocking-Chair Proton Batteries with Conducting Redox Polymer Active Materials and Protic Ionic Liquid Electrolytes. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 19099-19108.	4.0	27
22	Investigation of the Redox Chemistry of Isoindole-4,7-diones. <i>Journal of Physical Chemistry C</i> , 2013, 117, 894-901.	1.5	26
23	Quinone pendant group kinetics in poly(pyrrol-3-ylhydroquinone). <i>Journal of Electroanalytical Chemistry</i> , 2014, 735, 95-98.	1.9	25
24	Conducting Redox Polymer Based Anode Materials for High Power Electrical Energy Storage. <i>Electrochimica Acta</i> , 2016, 204, 270-275.	2.6	25
25	Conducting Redox Polymer as a Robust Organic Electrodeâ€“Active Material in Acidic Aqueous Electrolyte towards Polymerâ€“Air Secondary Batteries. <i>ChemSusChem</i> , 2020, 13, 2280-2285.	3.6	25
26	Effect of Cycling Ion and Solvent on the Redox Chemistry of Substituted Quinones and Solvent-Induced Breakdown of the Correlation between Redox Potential and Electron-Withdrawing Power of Substituents. <i>Journal of Physical Chemistry C</i> , 2020, 124, 13609-13617.	1.5	22
27	Matching Diethyl Terephthalate with n-Doped Conducting Polymers. <i>Journal of Physical Chemistry C</i> , 2015, 119, 18956-18963.	1.5	21
28	The Proton Trap Technologyâ€“Toward High Potential Quinoneâ€“Based Organic Energy Storage. <i>Advanced Energy Materials</i> , 2017, 7, 1700259.	10.2	20
29	Conjugated Pyridine-Based Polymers Characterized as Conductivity Carrying Components in Anode Materials. <i>Journal of Physical Chemistry C</i> , 2014, 118, 25956-25963.	1.5	19
30	Self-discharge in positively charged polypyrroleâ€“cellulose composite electrodes. <i>Electrochemistry Communications</i> , 2015, 50, 43-46.	2.3	19
31	An Aqueous Conducting Redoxâ€“Polymerâ€“Based Proton Battery that Can Withstand Rapid Constantâ€“Voltage Charging and Subâ€“Zero Temperatures. <i>Angewandte Chemie</i> , 2020, 132, 9718-9725.	1.6	18
32	Activation Barriers Provide Insight into the Mechanism of Self-Discharge in Polypyrrole. <i>Journal of Physical Chemistry C</i> , 2014, 118, 29643-29649.	1.5	17
33	Enthalpic versus Entropic Contribution to the Quinone Formal Potential in a Polypyrrole-Based Conducting Redox Polymer. <i>Journal of Physical Chemistry C</i> , 2016, 120, 21178-21183.	1.5	17
34	Identifying the tuning key of disproportionation redox reaction in terephthalate: A Li-based anode for sustainable organic batteries. <i>Nano Energy</i> , 2018, 47, 301-308.	8.2	17
35	Redox-State-Dependent Interplay between Pendant Group and Conducting Polymer Backbone in Quinone-Based Conducting Redox Polymers for Lithium Ion Batteries. <i>ACS Applied Energy Materials</i> , 2019, 2, 7162-7170.	2.5	17
36	Conducting Redox Polymer as Organic Anode Material for Polymerâ€“Manganese Secondary Batteries. <i>ChemElectroChem</i> , 2020, 7, 3336-3340.	1.7	17

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37	Assessing the electrochemical properties of polypyridine and polythiophene for prospective applications in sustainable organic batteries. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 3307-3314.	1.3	15
38	In situ Investigations of a Proton Trap Material: A PEDOT-Based Copolymer with Hydroquinone and Pyridine Side Groups Having Robust Cyclability in Organic Electrolytes and Ionic Liquids. <i>ACS Applied Energy Materials</i> , 2019, 2, 4486-4495.	2.5	15
39	Conjugated redox polymer with poly(3,4-ethylenedioxythiophene) backbone and hydroquinone pendant groups as the solid contact in potassium-selective electrodes. <i>Sensors and Actuators B: Chemical</i> , 2021, 329, 129231.	4.0	14
40	Synthesis and Redox Properties of Thiophene Terephthalate Building Blocks for Low-Potential Conducting Redox Polymers. <i>Journal of Physical Chemistry C</i> , 2015, 119, 27247-27254.	1.5	11
41	A versatile route to polythiophenes with functional pendant groups using alkyne chemistry. <i>Beilstein Journal of Organic Chemistry</i> , 2016, 12, 2682-2688.	1.3	11
42	Polaron Disproportionation Charge Transport in a Conducting Redox Polymer. <i>Journal of Physical Chemistry C</i> , 2017, 121, 13078-13083.	1.5	11
43	Conducting redox polymers with non-activated charge transport properties. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 25052-25058.	1.3	11
44	An Alternative to Carbon Additives: The Fabrication of Conductive Layers Enabled by Soluble Conducting Polymer Precursors – A Case Study for Organic Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 5349-5356.	4.0	11
45	Self-discharge Reactions in Energy Storage Devices Based on Polypyrrole-cellulose Composite Electrodes. <i>Green</i> , 2014, 4, .	0.4	9
46	Effect of the Linker in Terephthalate-Functionalized Conducting Redox Polymers. <i>Electrochimica Acta</i> , 2016, 222, 149-155.	2.6	7
47	Synthesis and characterization of poly-3-((2,5-hydroquinone)vinyl)-1H-pyrrole: investigation on backbone/pendant interactions in a conducting redox polymer. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 10427-10435.	1.3	7
48	Life cycle assessment of an all-organic battery: Hotspots and opportunities for improvement. <i>Journal of Cleaner Production</i> , 2022, 337, 130454.	4.6	7
49	A conducting additive-free high potential quinone-based conducting redox polymer as lithium ion battery cathode. <i>Electrochimica Acta</i> , 2021, 391, 138901.	2.6	6
50	A crosslinked conducting polymer with well-defined proton trap function for reversible proton cycling in aprotic environments. <i>Journal of Materials Chemistry A</i> , 2020, 8, 12114-12123.	5.2	5
51	Characterization of a porphyrin-functionalized conducting polymer: A first step towards sustainable electrocatalysis. <i>Electrochimica Acta</i> , 2022, 424, 140616.	2.6	4
52	Hydroquinone-pyrrole dyads with varied linkers. <i>Beilstein Journal of Organic Chemistry</i> , 2016, 12, 89-96.	1.3	3
53	Proton-coupled electron transfer from an interfacial phenol monolayer. <i>Journal of Electroanalytical Chemistry</i> , 2020, 859, 113856.	1.9	2
54	Potential-tuning in quinone-pyrrole dyad-based conducting redox polymers. <i>Electrochimica Acta</i> , 2021, 389, 138758.	2.6	1

#	ARTICLE	IF	CITATIONS
55	Multifunctional metal-free rechargeable polymer composite nanoparticles boosted by CO <sub>2</sub> . <i>Materials Today Sustainability</i> , 2020, 10, 100048.	1.9	0
56	(Keynote) Conducting Redox Polymer Batteries. <i>ECS Meeting Abstracts</i> , 2018, , .	0.0	0
57	Reprint of "Proton-coupled electron transfer from an interfacial phenol monolayer". <i>Journal of Electroanalytical Chemistry</i> , 2020, 875, 114760.	1.9	0