Christo S Sevov

List of Publications by Year
in descending order

18 papers	1,391 citations	471509 17 h-index	888059 17 g-index
18 all docs	18 docs citations	18 times ranked	1025 citing authors

#	Article	IF	Citations
1	Evolutionary Design of Low Molecular Weight Organic Anolyte Materials for Applications in Nonaqueous Redox Flow Batteries. Journal of the American Chemical Society, 2015, 137, 14465-14472.	13.7	191
2	Physical Organic Approach to Persistent, Cyclable, Low-Potential Electrolytes for Flow Battery Applications. Journal of the American Chemical Society, 2017, 139, 2924-2927.	13.7	165
3	High-Performance Oligomeric Catholytes for Effective Macromolecular Separation in Nonaqueous Redox Flow Batteries. ACS Central Science, 2018, 4, 189-196.	11.3	134
4	Macromolecular Design Strategies for Preventing Activeâ€Material Crossover in Nonâ€Aqueous Allâ€Organic Redoxâ€Flow Batteries. Angewandte Chemie - International Edition, 2017, 56, 1595-1599.	13.8	116
5	General C(sp²)â€“C(sp³) Cross-Electrophile Coupling Reactions Enabled by Overcharge Protection of Homogeneous Electrocatalysts. Journal of the American Chemical Society, 2020, 142, 5884-5893.	13.7	103
6	Mechanism-Based Development of a Low-Potential, Soluble, and Cyclable Multielectron Anolyte for Nonaqueous Redox Flow Batteries. Journal of the American Chemical Society, 2016, 138, 15378-15384.	13.7	99
7	Cyclopropenium Salts as Cyclable, Highâ€Potential Catholytes in Nonaqueous Media. Advanced Energy Materials, 2017, 7, 1602027.	19.5	94
8	Controlling Ni redox states by dynamic ligand exchange for electroreductive Csp3â€“Csp2 coupling. Science, 2022, 376, 410-416.	12.6	74
9	Multielectron Cycling of a Low-Potential Anolyte in Alkali Metal Electrolytes for Nonaqueous Redox Flow Batteries. ACS Energy Letters, 2017, 2, 2430-2435.	17.4	72
10	Direct and Scalable Electroreduction of Triphenylphosphine Oxide to Triphenylphosphine. Journal of the American Chemical Society, 2020, 142, 3024-3031.	13.7	72
11	An Electrochemically Promoted, Nickel-Catalyzed Mizorokiâ€“Heck Reaction. ACS Catalysis, 2019, 9, 7197-7203.	11.2	45
12	Low-Potential Pyridinium Anolyte for Aqueous Redox Flow Batteries. Journal of Physical Chemistry C, 2017, 121, 24376-24380.	3.1	44
13	Mediator-Enabled Electrocatalysis with Ligandless Copper for Anaerobic Chanâ€“Lam Coupling Reactions. Journal of the American Chemical Society, 2021, 143, 6257-6265.	13.7	44
14	Effect of the Backbone Tether on the Electrochemical Properties of Soluble Cyclopropenium Redox-Active Polymers. Macromolecules, 2018, 51, 3539-3546.	4.8	43
15	All-Organic Storage Solids and Redox Shuttles for Redox-Targeting Flow Batteries. ACS Energy Letters, 0, , 1271-1279.	17.4	27
16	Macromolecular Design Strategies for Preventing Activeâ€Material Crossover in Nonâ€Aqueous Allâ€Organic Redoxâ€Flow Batteries. Angewandte Chemie, 2017, 129, 1617-1621.	2.0	25
17	Synergistic Catalystâ€“Mediator Pairings for Electroreductive Cross-Electrophile Coupling Reactions. ACS Catalysis, 2022, 12, 1161-1166.	11.2	24
18	Catalyst-controlled functionalization of carboxylic acids by electrooxidation of self-assembled carboxyl monolayers. Nature Communications, 2022, 13, 1319.	12.8	19