

Olivier Fontaine

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

41 papers	2,112 citations	20 h-index	45 g-index
46 ext. papers	2,520 ext. citations	10.8 avg, IF	5.11 L-index

#	Paper	IF	Citations
41	Charging a Li-O ₂ battery using a redox mediator. <i>Nature Chemistry</i> , 2013 , 5, 489-94	17.6	675
40	Singlet oxygen generation as a major cause for parasitic reactions during cycling of aprotic lithium-oxygen batteries. <i>Nature Energy</i> , 2017 , 2,	62.3	243
39	Biredox ionic liquids with solid-like redox density in the liquid state for high-energy supercapacitors. <i>Nature Materials</i> , 2017 , 16, 446-453	27	233
38	Mechanism and performance of lithium-oxygen batteries - a perspective. <i>Chemical Science</i> , 2017 , 8, 6716-6729	9.4	116
37	Water-in-Salt For Supercapacitors: A Compromise between Voltage, Power Density, Energy Density and Stability. <i>Journal of the Electrochemical Society</i> , 2018 , 165, A657-A663	3.9	83
36	Singlet oxygen from cation driven superoxide disproportionation and consequences for aprotic metal-O ₂ batteries. <i>Energy and Environmental Science</i> , 2019 , 12, 2559-2568	35.4	82
35	Mass transport and heterogeneous electron transfer of a ferrocene derivative in a room-temperature ionic liquid. <i>Journal of Electroanalytical Chemistry</i> , 2009 , 632, 88-96	4.1	78
34	Modifications of MXene layers for supercapacitors. <i>Nano Energy</i> , 2020 , 73, 104734	17.1	74
33	Ionic liquid viscosity effects on the functionalization of electrode material through the electroreduction of diazonium. <i>Langmuir</i> , 2010 , 26, 18542-9	4	57
32	Water-in-Salt Electrolyte (WiSE) for Aqueous Batteries: A Long Way to Practicality. <i>Advanced Energy Materials</i> , 2020 , 10, 2002440	21.8	52
31	Modification of carbon electrode in ionic liquid through the reduction of phenyl diazonium salt. Electrochemical evidence in ionic liquid. <i>Electrochemistry Communications</i> , 2008 , 10, 1060-1063	5.1	44
30	Transport Properties of Li-TFSI Water-in-Salt Electrolytes. <i>Journal of Physical Chemistry B</i> , 2019 , 123, 10514-10521	3.4	39
29	Aprotic Li-O ₂ Battery: Influence of Complexing Agents on Oxygen Reduction in an Aprotic Solvent. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 3393-3401	3.8	33
28	Competitive Salt Precipitation/Dissolution During Free-Water Reduction in Water-in-Salt Electrolyte. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 15913-15917	16.4	28
27	Biredox ionic liquids: electrochemical investigation and impact of ion size on electron transfer. <i>Electrochimica Acta</i> , 2016 , 206, 513-523	6.7	27
26	Single-ion conductor nanocomposite organic/inorganic hybrid membranes for lithium batteries. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 12162-12165	13	27
25	Biredox ionic liquids: new opportunities toward high performance supercapacitors. <i>Faraday Discussions</i> , 2018 , 206, 393-404	3.6	24

24	Multiwalled Carbon Nanotube/Cellulose Composite: From Aqueous Dispersions to Pickering Emulsions. <i>Langmuir</i> , 2016 , 32, 3907-16	4	24
23	3D self-supported porous vanadium-doped nickel nitride nanosheet arrays as efficient bifunctional electrocatalysts for urea electrolysis. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 4159-4166	13	23
22	Formation of negative oxidation states of platinum and gold in redox ionic liquid: Electrochemical evidence. <i>Electrochemistry Communications</i> , 2008 , 10, 1205-1209	5.1	22
21	Synthesis of Titania@Carbon Nanocomposite from Urea-Impregnated Cellulose for Efficient Lithium and Sodium Batteries. <i>ChemSusChem</i> , 2016 , 9, 264-73	8.3	20
20	Mechanism of mediated alkali peroxide oxidation and triplet versus singlet oxygen formation. <i>Nature Chemistry</i> , 2021 , 13, 465-471	17.6	18
19	Sol-gel route to zirconia-Pt-nanoelectrode arrays 8 nm in radius: their geometrical impact in mass transport. <i>Langmuir</i> , 2012 , 28, 3650-7	4	14
18	Competitive Salt Precipitation/Dissolution During Free-Water Reduction in Water-in-Salt Electrolyte. <i>Angewandte Chemie</i> , 2020 , 132, 16047-16051	3.6	11
17	Investigation of Ba _{0.5} Sr _{0.5} CoxFe _{1-x} O _{3-δ} as a pseudocapacitive electrode material with high volumetric capacitance. <i>Electrochimica Acta</i> , 2018 , 271, 677-684	6.7	8
16	PEO-Silsesquioxane Flexible Membranes: Organic-Inorganic Solid Electrolytes with Controlled Homogeneity and Nanostructure. <i>ChemistrySelect</i> , 2017 , 2, 2088-2093	1.8	7
15	Can an Inorganic Coating Serve as Stable SEI for Aqueous Superconcentrated Electrolytes?. <i>ACS Energy Letters</i> , 2021 , 6, 2575-2583	20.1	7
14	A deeper understanding of the electron transfer is the key to the success of biredox ionic liquids. <i>Energy Storage Materials</i> , 2019 , 21, 240-245	19.4	6
13	An aqueous zinc-ion battery working at 50°C enabled by low-concentration perchlorate-based chaotropic salt electrolyte. <i>EcoMat</i> ,	9.4	6
12	Self-Limited Grafting of Sub-Monolayers via Diels-Alder Reaction on Glassy Carbon Electrodes: An Electrochemical Insight. <i>ACS Omega</i> , 2019 , 4, 20540-20546	3.9	6
11	Redox bucky gels: mixture of carbon nanotubes and room temperature redox ionic liquids. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 13382-13388	13	4
10	Electrochemical investigations of Nb ₂ O ₅ /carbon materials from filter paper, microfibrillated and bacterial celluloses by sustainable reductive mineralization. <i>Electrochimica Acta</i> , 2019 , 313, 478-487	6.7	4
9	Investigation of Electrochemical and Chemical Processes Occurring at Positive Potentials in Water-in-Salt Electrolytes. <i>Journal of the Electrochemical Society</i> , 2021 , 168, 050550	3.9	4
8	Evaluation of the Properties of an Electrolyte Based on Formamide and LiTFSI for Electrochemical Capacitors. <i>Journal of the Electrochemical Society</i> , 2020 , 167, 110508	3.9	3
7	Nanocomposites with both structural and porous hierarchy synthesized from Pickering emulsions. <i>New Journal of Chemistry</i> , 2016 , 40, 4344-4350	3.6	3

6	Electrochemical study of asymmetric aqueous supercapacitors based on high density oxides: C/Ba _{0.5} Sr _{0.5} Co _{0.8} Fe _{0.2} O _{3-δ} and FeWO ₄ /Ba _{0.5} Sr _{0.5} Co _{0.8} Fe _{0.2} O _{3-δ} <i>Electrochimica Acta</i> , 2019 , 326, 134886	6.7	2
5	Shuttle Effect Quantification for Redox Ionic Liquid Electrolyte Correlated to the Coulombic Efficiency of Supercapacitors. <i>Batteries and Supercaps</i> , 2020 , 3, 1193-1200	5.6	1
4	Constructing an efficient conductive network with carbon-based additives in metal hydroxide electrode for high-performance hybrid supercapacitor. <i>Electrochimica Acta</i> , 2021 , 397, 139242	6.7	1
3	Coulombic Force Gated Molecular Transport in Redox Flow Batteries. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 1374-1383	6.4	0
2	MnO ₂ -MXene Composite as Electrode for Supercapacitor. <i>Journal of the Electrochemical Society</i> , 2022 , 169, 030524	3.9	0
1	Water-in-salt electrolytes towards sustainable and cost-effective alternatives - Example for Zinc-ion batteries. <i>Current Opinion in Electrochemistry</i> , 2022 , 101070	7.2	0