

# Carlotta Francia

## List of Publications by Year in descending order

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Version: 2024-02-01

30  
papers

993  
citations

516215

16  
h-index

454577

30  
g-index

31  
all docs

31  
docs citations

31  
times ranked

1170  
citing authors

#	ARTICLE	IF	CITATIONS
1	Integrated energy conversion and storage devices: Interfacing solar cells, batteries and supercapacitors. <i>Energy Storage Materials</i> , 2022, 51, 400-434.	9.5	133
2	Platinum catalyst supported on mesoporous carbon for PEMFC. <i>International Journal of Hydrogen Energy</i> , 2008, 33, 3142-3145.	3.8	90
3	Estimation of hydrogen crossover through Nafion® membranes in PEMFCs. <i>Journal of Power Sources</i> , 2011, 196, 1833-1839.	4.0	80
4	Mesoporous carbons supported non-noble metal Fe-N X electrocatalysts for PEM fuel cell oxygen reduction reaction. <i>Journal of Applied Electrochemistry</i> , 2013, 43, 159-169.	1.5	78
5	Nanosponge-Based Composite Gel Polymer Electrolyte for Safer Li-O <sub>2</sub> Batteries. <i>Polymers</i> , 2021, 13, 1625.	2.0	73
6	Electrochemical Performance of Pt-Based Catalysts Supported on Different Ordered Mesoporous Carbons (Pt/OMCs) for Oxygen Reduction Reaction. <i>Industrial &amp; Engineering Chemistry Research</i> , 2012, 51, 7500-7509.	1.8	56
7	Platinum-free photoelectrochromic devices working with copper-based electrolytes for ultrastable smart windows. <i>Journal of Materials Chemistry A</i> , 2021, 9, 19687-19691.	5.2	53
8	Micro-Mesoporous Carbons from Cyclodextrin Nanosponges Enabling High-Capacity Silicon Anodes and Sulfur Cathodes for Lithiated Si Batteries. <i>Chemistry - A European Journal</i> , 2022, 28, .	1.7	48
9	Bimetallic MPt (M: Co, Cu, Ni) alloy nanoparticles assembled on reduced graphene oxide as high performance cathode catalysts for rechargeable lithium-oxygen batteries. <i>Journal of Alloys and Compounds</i> , 2016, 683, 231-240.	2.8	41
10	The oxidation of glutathione by cobalt/tungsten carbide contributes to hard metal-induced oxidative stress. <i>Free Radical Research</i> , 2008, 42, 437-745.	1.5	39
11	Mesoporous carbons as low temperature fuel cell platinum catalyst supports. <i>Journal of Applied Electrochemistry</i> , 2008, 38, 1019-1027.	1.5	38
12	Protective PVDF-HFP-based membranes for air de-hydration at the cathode of the rechargeable Li-air cell. <i>Journal of Applied Electrochemistry</i> , 2016, 46, 617-626.	1.5	28
13	Influence of Binders and Solvents on Stability of Ru/RuO <sub>2</sub> Nanoparticles on ITO Nanocrystals as Li-O <sub>2</sub> Battery Cathodes. <i>ChemSusChem</i> , 2017, 10, 575-586.	3.6	25
14	The Use of C-MnO <sub>2</sub> as Hybrid Precursor Support for a Pt/C-Mn <sub>x</sub> O <sub>1+x</sub> Catalyst with Enhanced Activity for the Methanol Oxidation Reaction (MOR). <i>Catalysts</i> , 2015, 5, 1399-1416.	1.6	23
15	Molybdenum disulfide/polyaniline interlayer for lithium polysulphide trapping in lithium-sulphur batteries. <i>Journal of Power Sources</i> , 2022, 521, 230945.	4.0	21
16	What do we need for the lithium-air batteries: A promoter or a catalyst?. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 20583-20591.	3.8	20
17	Ultrasml SnO <sub>2</sub> directly grown on commercial C45 carbon as lithium-ion battery anodes for long cycling performance. <i>Electrochimica Acta</i> , 2021, 367, 137489.	2.6	18
18	Electrochemical characterisation of expander materials. <i>Journal of Power Sources</i> , 2001, 95, 119-124.	4.0	17

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19	Electrochemical techniques for the characterisation of expander materials. <i>Journal of Power Sources</i> , 2000, 85, 102-109.	4.0	16
20	PEEK $\kappa$ WC/Nanosponge Membranes for Lithium $\kappa$ Anode Protection in Rechargeable Li $\kappa$ O <sub>2</sub> Batteries. <i>ChemElectroChem</i> , 2018, 5, 1599-1605.	1.7	14
21	Rational design of porous carbon matrices to enable efficient lithiated silicon sulfur full cell. <i>Carbon</i> , 2019, 145, 100-111.	5.4	14
22	Composite polymer electrolyte with high inorganic additive contents to enable metallic lithium anode. <i>Electrochimica Acta</i> , 2022, 404, 139772.	2.6	12
23	The effect of expanders on lead-sulphate formation and reduction. <i>Journal of Power Sources</i> , 2000, 85, 110-116.	4.0	11
24	Effect of Freezing Conditions on PEM-FC Components. <i>ECS Transactions</i> , 2009, 17, 359-368.	0.3	8
25	Synthesis of mesoporous carbons and reduced graphene oxide and their influence on the cycling performance of rechargeable Li-O <sub>2</sub> batteries. <i>Journal of Solid State Electrochemistry</i> , 2017, 21, 503-514.	1.2	8
26	Lithium polysulfides immobilization exploiting formate-ion doped polyaniline wrapped carbon for Long cycle life sulfur cathodes via conventional electrode processing. <i>Materials Today Communications</i> , 2021, 26, 101970.	0.9	6
27	Synergic effect of catalyst/binder in passivation side-products of Li-oxygen cells. <i>Journal of Solid State Electrochemistry</i> , 2019, 23, 3309-3317.	1.2	5
28	UV-Induced Radical Photo-Polymerization: A Smart Tool for Preparing Polymer Electrolyte Membranes for Energy Storage Devices. <i>Membranes</i> , 2012, 2, 307-324.	1.4	4
29	Cathodes Based on Noncatalyzed Ordered Mesoporous Carbon for Li $\kappa$ O <sub>2</sub> Rechargeable Batteries. <i>ChemElectroChem</i> , 2014, 1, 1382-1387.	1.7	4
30	Nanostructured bimetallic alloys prepared via mechanochemical synthesis as PEMFC electrocatalysts for automotive applications. <i>Journal of Applied Electrochemistry</i> , 2009, 39, 2115-2121.	1.5	1