

# Sonia Dsoke

## List of Publications by Year in descending order

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66  
papers

1,775  
citations

236925

25  
h-index

289244

40  
g-index

68  
all docs

68  
docs citations

68  
times ranked

2384  
citing authors

#	ARTICLE	IF	CITATIONS
1	The importance of the electrode mass ratio in a Li-ion capacitor based on activated carbon and Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> . Journal of Power Sources, 2015, 282, 385-393.	7.8	151
2	Low-temperature behavior of graphite-tin composite anodes for Li-ion batteries. Journal of Power Sources, 2010, 195, 7090-7097.	7.8	102
3	Lithium intercalation and interfacial kinetics of composite anodes formed by oxidized graphite and copper. Journal of Power Sources, 2009, 190, 141-148.	7.8	74
4	Strategies to reduce the resistance sources on Electrochemical Double Layer Capacitor electrodes. Journal of Power Sources, 2013, 238, 422-429.	7.8	74
5	An ac impedance spectroscopic study of Mg-doped LiCoO <sub>2</sub> at different temperatures: electronic and ionic transport properties. Electrochimica Acta, 2005, 50, 2307-2313.	5.2	71
6	<i>In Operando</i> Synchrotron Diffraction and <i>In Operando</i> X-ray Absorption Spectroscopy Investigations of Orthorhombic V <sub>2</sub> O <sub>5</sub> Nanowires as Cathode Materials for Mg-Ion Batteries. Journal of the American Chemical Society, 2019, 141, 2305-2315.	13.7	69
7	Can Metallic Sodium Electrodes Affect the Electrochemistry of Sodium-Ion Batteries? Reactivity Issues and Perspectives. ChemSusChem, 2019, 12, 3312-3319.	6.8	62
8	Elucidating the energy storage mechanism of ZnMn <sub>2</sub> O <sub>4</sub> as promising anode for Li-ion batteries. Journal of Materials Chemistry A, 2018, 6, 19381-19392.	10.3	57
9	Metal-oxidized graphite composite electrodes for lithium-ion batteries. Electrochimica Acta, 2005, 51, 536-544.	5.2	54
10	Synthesis and electrochemical properties of rGO/polypyrrole/ferrites nanocomposites obtained via a hydrothermal route for hybrid aqueous supercapacitors. Journal of Electroanalytical Chemistry, 2019, 845, 72-83.	3.8	54
11	Understanding the Li-ion storage mechanism in a carbon composited zinc sulfide electrode. Journal of Materials Chemistry A, 2019, 7, 15640-15653.	10.3	48
12	Electrochemical behavior and stability of a commercial activated carbon in various organic electrolyte combinations containing Li-salts. Electrochimica Acta, 2016, 218, 163-173.	5.2	47
13	Correlation of Ac-Impedance and In Situ X-ray Spectra of LiCoO <sub>2</sub> . Journal of Physical Chemistry B, 2006, 110, 11310-11313.	2.6	46
14	Electrochemical investigation of polarization phenomena and intercalation kinetics of oxidized graphite electrodes coated with evaporated metal layers. Journal of Power Sources, 2008, 180, 845-851.	7.8	46
15	An XAS experimental approach to study low Pt content electrocatalysts operating in PEM fuel cells. Physical Chemistry Chemical Physics, 2009, 11, 9987.	2.8	41
16	High-Voltage Aqueous Mg-Ion Batteries Enabled by Solvation Structure Reorganization. Advanced Functional Materials, 2022, 32, 2110674.	14.9	38
17	Are Functional Groups Beneficial or Harmful on the Electrochemical Performance of Activated Carbon Electrodes?. Journal of the Electrochemical Society, 2019, 166, A1004-A1014.	2.9	36
18	Electrochemical and structural investigations of different polymorphs of TiO <sub>2</sub> in magnesium and hybrid lithium/magnesium batteries. Electrochimica Acta, 2018, 277, 20-29.	5.2	35

#	ARTICLE	IF	CITATIONS
19	Choosing the right carbon additive is of vital importance for high-performance Sb-based Na-ion batteries. <i>Journal of Materials Chemistry A</i> , 2020, 8, 6092-6104.	10.3	35
20	High rate capability $\text{Li}_3\text{V}_2\text{As}_x\text{Ni}_{1-x}(\text{PO}_4)_3/\text{C}$ ( $x = 0, 0.05, \text{ and } 0.1$ ) cathodes for Li-ion asymmetric supercapacitors. <i>Journal of Materials Chemistry A</i> , 2015, 3, 11807-11816.	10.3	34
21	Activation of carbon-supported platinum nanoparticles by zeolite-type cesium salts of polyoxometallates of molybdenum and tungsten towards more efficient electrocatalytic oxidation of methanol and ethanol. <i>Journal of Electroanalytical Chemistry</i> , 2010, 649, 238-247.	3.8	33
22	Understanding the Lithium Storage Mechanism in Core-Shell $\text{Fe}_2\text{O}_3/\text{C}$ Hollow Nanospheres Derived from Metal-Organic Frameworks: An In operando Synchrotron Radiation Diffraction and in operando X-ray Absorption Spectroscopy Study. <i>Chemistry of Materials</i> , 2019, 31, 5633-5645.	6.7	28
23	Effect of Continuous Capacity Rising Performed by $\text{FeS}/\text{Fe}_3\text{C}/\text{C}$ Composite Electrodes for Lithium-Ion Batteries. <i>ChemSusChem</i> , 2020, 13, 986-995.	6.8	28
24	Pt-Co cathode electrocatalyst behaviour viewed by in situ XAFS fuel cell measurements. <i>Journal of Power Sources</i> , 2008, 178, 603-609.	7.8	27
25	Rotating disk electrode study of $\text{Cs}_{2.5}\text{H}_0.5\text{PW}_{12}\text{O}_{40}$ as mesoporous support for Pt nanoparticles for PEM fuel cells electrodes. <i>Journal of Power Sources</i> , 2011, 196, 10591-10600.	7.8	27
26	$\text{Na}_3\text{V}_2(\text{PO}_4)_3$ A Highly Promising Anode and Cathode Material for Sodium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2021, 4, 12688-12695.	5.1	26
27	Local Ordering Changes in Pt-Co Nanocatalyst Induced by Fuel Cell Working Conditions. <i>Journal of Physical Chemistry C</i> , 2012, 116, 12791-12802.	3.1	25
28	Influence of the binder nature on the performance and cycle life of activated carbon electrodes in electrolytes containing Li-salt. <i>Journal of Power Sources</i> , 2017, 342, 301-312.	7.8	24
29	Interfacial Properties of Copper-coated Graphite Electrodes: Coating Thickness Dependence. <i>Fuel Cells</i> , 2009, 9, 264-268.	2.4	21
30	Aprotic and Protic Ionic Liquids Combined with Olive Pits Derived Hard Carbon for Potassium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2019, 166, A3504-A3510.	2.9	21
31	The synergic effect of activated carbon and $\text{Li}_3\text{V}_{1.95}\text{Ni}_{0.05}(\text{PO}_4)_3/\text{C}$ for the development of high energy and power electrodes. <i>Electrochimica Acta</i> , 2016, 219, 425-434.	5.2	20
32	Electrochemical and Structural Investigation of Calcium Substituted Monoclinic $\text{Li}_3\text{V}_2(\text{PO}_4)_3$ Anode Materials for Li-Ion Batteries. <i>Advanced Energy Materials</i> , 2019, 9, 1901864.	19.5	19
33	Electrochemical performance and reaction mechanism investigation of $\text{V}_2\text{O}_5$ positive electrode material for aqueous rechargeable zinc batteries. <i>Journal of Materials Chemistry A</i> , 2021, 9, 16776-16786.	10.3	19
34	Rotating disc electrode study of Pt-Co- $\text{Cs}_{2.5}\text{PW}_{12}\text{O}_{40}$ composite electrodes toward oxygen reduction reaction. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 8098-8102.	7.1	18
35	Mechanism Study of Carbon Coating Effects on Conversion-Type Anode Materials in Lithium-Ion Batteries: Case Study of $\text{ZnMn}_2\text{O}_4$ and $\text{ZnO}/\text{MnO}$ Composites. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 29888-29900.	8.0	18
36	Evidence of a Pseudo-Capacitive Behavior Combined with an Insertion/Extraction Reaction Upon Cycling of the Positive Electrode Material $\text{P}_2\text{Na}_x\text{Co}_{0.9}\text{Ti}_{0.1}\text{O}_2$ for Sodium-Ion Batteries. <i>ChemElectroChem</i> , 2019, 6, 892-903.	3.4	18

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37	Temperature and potential-dependent structural changes in a Pt cathode electrocatalyst viewed by in situ XAFS. <i>Journal of Non-Crystalline Solids</i> , 2008, 354, 4227-4232.	3.1	16
38	Shift to Post-Li-Ion Capacitors: Electrochemical Behavior of Activated Carbon Electrodes in Li-, Na- and K-Salt Containing Organic Electrolytes. <i>Journal of the Electrochemical Society</i> , 2018, 165, A2807-A2814.	2.9	14
39	Electrochemical study on nickel aluminum layered double hydroxides as high-performance electrode material for lithium-ion batteries based on sodium alginate binder. <i>Journal of Solid State Electrochemistry</i> , 2022, 26, 49-61.	2.5	12
40	ZnS nanoparticles embedded in N-doped porous carbon xerogel as electrode materials for sodium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2021, 877, 160299.	5.5	12
41	In operando study of orthorhombic V <sub>2</sub> O <sub>5</sub> as positive electrode materials for K-ion batteries. <i>Journal of Energy Chemistry</i> , 2021, 62, 627-636.	12.9	12
42	Immobilization of Polyiodide Redox Species in Porous Carbon for Battery-Like Electrodes in Eco-Friendly Hybrid Electrochemical Capacitors. <i>Nanomaterials</i> , 2019, 9, 1413.	4.1	11
43	Study on Na <sub>2</sub> V <sub>0.67</sub> Mn <sub>0.33</sub> Ti(PO <sub>4</sub> ) <sub>3</sub> electrodes with ultralow voltage hysteresis for high performance sodium-ion batteries. <i>Chemical Engineering Journal</i> , 2022, 444, 136608.	12.7	11
44	<i>In Operando</i> analysis of the charge storage mechanism in a conversion ZnCo <sub>2</sub> O <sub>4</sub> anode and the application in flexible Li-ion batteries. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 1861-1872.	6.0	10
45	Hybrid aqueous supercapacitors based on mesoporous spinel-analogous Zn-Ni-Co-O nanorods: Effect of Ni content on the structure and energy storage. <i>Journal of Alloys and Compounds</i> , 2021, 882, 160712.	5.5	10
46	Development of Non-Fluorinated Cathodes Based on Li <sub>3</sub> V <sub>1.95</sub> Ni <sub>0.05</sub> (PO <sub>4</sub> ) <sub>3</sub> /C with Prolonged Cycle Life: A Comparison among Na-Alginate, Na-Carboxymethyl Cellulose and Poly(acrylic acid) Binders. <i>Journal of the Electrochemical Society</i> , 2017, 164, A672-A683.	2.9	9
47	One step <i>in situ</i> synthesis of ZnS/N and S co-doped carbon composites <i>via</i> salt templating for lithium-ion battery applications. <i>New Journal of Chemistry</i> , 2019, 43, 13038-13047.	2.8	9
48	Elucidating the Mechanism of Li Insertion into Fe <sub>1-x</sub> S/Carbon <i>via</i> In Operando Synchrotron Studies. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 52691-52700.	8.0	9
49	Investigation of Na <sub>2</sub> /3Co <sub>2</sub> /3Ti <sub>1</sub> /3O <sub>2</sub> as a multi-phase positive electrode material for sodium batteries. <i>Journal of Power Sources</i> , 2021, 481, 229120.	7.8	9
50	Interaction between Electrolytes and Sb <sub>2</sub> O <sub>3</sub> -Based Electrodes in Sodium Batteries: Uncovering the Detrimental Effects of Diglyme. <i>ChemElectroChem</i> , 2020, 7, 3487-3495.	3.4	8
51	Benefits of Organo-Aqueous Binary Solvents for Redox Supercapacitors Based on Polyoxometalates. <i>ChemElectroChem</i> , 2020, 7, 2466-2476.	3.4	8
52	Study of the Lithium Storage Mechanism of N-Doped Carbon-Modified Cu <sub>2</sub> S Electrodes for Lithium-Ion Batteries. <i>Chemistry - A European Journal</i> , 2021, 27, 13774-13782.	3.3	8
53	An asymmetric MnO <sub>2</sub>   activated carbon supercapacitor with highly soluble choline nitrate-based aqueous electrolyte for sub-zero temperatures. <i>Electrochimica Acta</i> , 2022, 425, 140708.	5.2	8
54	Expanding the Cathodic Potential Window of Activated Carbon Electrodes in a Lithium-Salt Containing Electrolyte. <i>Batteries and Supercaps</i> , 2018, 1, 215-222.	4.7	7

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55	Investigation of N and S Co-doped Porous Carbon for Sodium-Ion Battery, Synthesized by Using Ammonium Sulphate for Simultaneous Activation and Heteroatom Doping. Journal of the Electrochemical Society, 2020, 167, 100531.	2.9	7
56	Study of Polyoxometalates as Electrode Materials for Lithium-Ion Batteries: Thermal Stability Paves the Way to Improved Cycle Stability. ChemElectroChem, 2021, 8, 656-664.	3.4	6
57	Influence of phase variation of $ZnMn_2O_4$ /carbon electrodes on cycling performances of Li-ion batteries. Inorganic Chemistry Frontiers, 2020, 7, 3657-3666.	6.0	5
58	The role of nanomaterials for supercapacitors and hybrid devices. Frontiers of Nanoscience, 2021, 19, 99-136.	0.6	5
59	Structural change of carbon supported Pt nanocatalyst subjected to a step-like potential cycling in PEM FC. Journal of Non-Crystalline Solids, 2014, 401, 169-174.	3.1	4
60	High Energy and High Power Lithium-Ion Hybrid Supercapacitors with Prolonged Cycle Life Based on High-Rate Capability Materials: $Li_4Ti_5O_{12}$ , Activated Carbon, $Li_3V_1.95Ni_{0.05}(PO_4)_3/C$ . ChemElectroChem, 2020, 7, 1631-1643.	3.4	4
61	Electrocatalytic properties of platinum nanocenters electrogenerated at ultra-trace levels within zeolitic phosphododecatungstate cesium salt matrices. Journal of Solid State Electrochemistry, 2014, 18, 2993-3001.	2.5	3
62	Impact of 3-Cyanopropionic Acid Methyl Ester on the Electrochemical Performance of $ZnMn_2O_4$ as Negative Electrode for Li-Ion Batteries. Energy Technology, 2021, 9, 2100247.	3.8	3
63	Glyoxal-Based Electrolytes in Combination with $Fe_2O_3@C$ -Based Electrodes for Lithium-Ion Batteries. Batteries and Supercaps, 2022, 5, .	4.7	3
64	Nano-structured Pt embedded in acidic salts of heteropolymolybdate matrices: MS EXAFS study. Nuclear Instruments & Methods in Physics Research B, 2015, 364, 65-69.	1.4	2
65	Probing the Effect of Titanium Substitution on the Sodium Storage in $Na_3Ni_2BiO_6$ Honeycomb-Type Structure. Energies, 2020, 13, 6498.	3.1	2
66	Foreword to the memorial issue for Professor Roberto Marassi. Journal of Solid State Electrochemistry, 2022, 26, 1-2.	2.5	2