

# Ivana Hasa

## List of Publications by Year in descending order

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Version: 2024-02-01

37  
papers

3,167  
citations

201575

27  
h-index

395590

33  
g-index

37  
all docs

37  
docs citations

37  
times ranked

3940  
citing authors

#	ARTICLE	IF	CITATIONS
1	Hard carbons for sodium-ion batteries: Structure, analysis, sustainability, and electrochemistry. <i>Materials Today</i> , 2019, 23, 87-104.	8.3	537
2	Challenges and Strategies for High-Energy Aqueous Electrolyte Rechargeable Batteries. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 598-616.	7.2	272
3	Beyond Insertion for Na-ion Batteries: Nanostructured Alloying and Conversion Anode Materials. <i>Advanced Energy Materials</i> , 2018, 8, 1702582.	10.2	231
4	High Performance Na <sub>0.5</sub> [Ni <sub>0.23</sub> Fe <sub>0.13</sub> Mn <sub>0.63</sub> ]O <sub>2</sub> Cathode for Sodium-ion Batteries. <i>Advanced Energy Materials</i> , 2014, 4, 1400083.	10.2	204
5	Challenges of today for Na-based batteries of the future: From materials to cell metrics. <i>Journal of Power Sources</i> , 2021, 482, 228872.	4.0	169
6	A Comparative Study of Layered Transition Metal Oxide Cathodes for Application in Sodium-ion Battery. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 5206-5212.	4.0	162
7	A sodium-ion battery exploiting layered oxide cathode, graphite anode and glyme-based electrolyte. <i>Journal of Power Sources</i> , 2016, 310, 26-31.	4.0	144
8	Alternative materials for sodium ion-sulphur batteries. <i>Journal of Materials Chemistry A</i> , 2013, 1, 5256.	5.2	141
9	Pectin, Hemicellulose, or Lignin? Impact of the Biowaste Source on the Performance of Hard Carbons for Sodium-ion Batteries. <i>ChemSusChem</i> , 2017, 10, 2668-2676.	3.6	125
10	Insights into the reversibility of aluminum graphite batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 9682-9690.	5.2	112
11	Toward high energy density cathode materials for sodium-ion batteries: investigating the beneficial effect of aluminum doping on the P2-type structure. <i>Journal of Materials Chemistry A</i> , 2017, 5, 4467-4477.	5.2	108
12	Characteristics of an ionic liquid electrolyte for sodium-ion batteries. <i>Journal of Power Sources</i> , 2016, 303, 203-207.	4.0	95
13	Nanostructured Na-ion and Li-ion anodes for battery application: A comparative overview. <i>Nano Research</i> , 2017, 10, 3942-3969.	5.8	88
14	Transition metal oxide-carbon composites as conversion anodes for sodium-ion battery. <i>Electrochimica Acta</i> , 2015, 173, 613-618.	2.6	78
15	Understanding the Electrode/Electrolyte Interface Layer on the Li-Rich Nickel Manganese Cobalt Layered Oxide Cathode by XPS. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 43166-43179.	4.0	74
16	A rechargeable sodium-ion battery using a nanostructured Sb-C anode and P2-type layered Na <sub>0.6</sub> Ni <sub>0.22</sub> Fe <sub>0.11</sub> Mn <sub>0.66</sub> O <sub>2</sub> cathode. <i>RSC Advances</i> , 2015, 5, 48928-48934.	1.7	59
17	Sodium-ion Battery based on an Electrochemically Converted NaFePO <sub>4</sub> Cathode and Nanostructured Tin-Carbon Anode. <i>ChemPhysChem</i> , 2014, 15, 2152-2155.	1.0	57
18	Effects of nitrogen doping on the structure and performance of carbon coated Na <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> cathodes for sodium-ion batteries. <i>Carbon</i> , 2017, 124, 334-341.	5.4	55

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19	Exploring the Ni redox activity in polyanionic compounds as conceivable high potential cathodes for Na rechargeable batteries. <i>NPG Asia Materials</i> , 2017, 9, e370-e370.	3.8	52
20	Impact of the Acid Treatment on Lignocellulosic Biomass Hard Carbon for Sodium-Ion Battery Anodes. <i>ChemSusChem</i> , 2018, 11, 3276-3285.	3.6	49
21	Ionic Liquid-Based Electrolytes for Sodium-Ion Batteries: Tuning Properties To Enhance the Electrochemical Performance of Manganese-Based Layered Oxide Cathode. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 22278-22289.	4.0	49
22	Sodium-Ion Batteries: Beyond Insertion for Na-Ion Batteries: Nanostructured Alloying and Conversion Anode Materials ( <i>Adv. Energy Mater.</i> 17/2018). <i>Advanced Energy Materials</i> , 2018, 8, 1870082.	10.2	47
23	Electrochemical Reactivity and Passivation of Silicon Thin-Film Electrodes in Organic Carbonate Electrolytes. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 40879-40890.	4.0	42
24	Assessment on the Use of High Capacity $\text{Sn}_4\text{P}_3$ /NHC Composite Electrodes for Sodium-Ion Batteries with Ether and Carbonate Electrolytes. <i>Advanced Functional Materials</i> , 2020, 30, 2004798.	7.8	41
25	Effect of Electrolyte Additives on the $\text{LiNi}_{0.5}\text{Mn}_{0.3}\text{Co}_{0.2}\text{O}_2$ Surface Film Formation with Lithium and Graphite Negative Electrodes. <i>Advanced Materials Interfaces</i> , 2020, 7, 1901500.	1.9	34
26	Excellent Cycling Stability and Superior Rate Capability of $\text{Na}_3\text{V}_2(\text{PO}_4)_3$ Cathodes Enabled by Nitrogen-Doped Carbon Interpenetration for Sodium-Ion Batteries. <i>ChemElectroChem</i> , 2017, 4, 1256-1263.	1.7	32
27	Tin-Containing Graphite for Sodium-Ion Batteries and Hybrid Capacitors. <i>Batteries and Supercaps</i> , 2021, 4, 173-182.	2.4	27
28	Assessing the Reactivity of Hard Carbon Anodes: Linking Material Properties with Electrochemical Response Upon Sodium- and Lithium-Ion Storage. <i>Batteries and Supercaps</i> , 2021, 4, 960-977.	2.4	23
29	Characterization of a reversible, low-polarization sodium-oxygen battery. <i>Electrochimica Acta</i> , 2016, 191, 516-520.	2.6	22
30	WÄssrige Hochleistungsbatterien: Herausforderungen und Strategien. <i>Angewandte Chemie</i> , 2021, 133, 608-626.	1.6	14
31	<i>Batteries &amp; Supercaps</i> : Beyond Lithium-Ion Batteries. <i>Batteries and Supercaps</i> , 2021, 4, 1036-1038.	2.4	12
32	Monitoring the Sodiation Mechanism of Anatase $\text{TiO}_2$ Nanoparticle-Based Electrodes for Sodium-Ion Batteries by <i>Operando</i> XANES Measurements. <i>ACS Applied Energy Materials</i> , 2021, 4, 164-175.	2.5	9
33	Silicon anode systems for lithium-ion batteries. , 2022, , 3-46.		2
34	Hard Carbon Particle Size and Mass Loading Influence on Sodium Ion Battery Rate Performance. <i>ECS Meeting Abstracts</i> , 2022, MA2022-01, 67-67.	0.0	1
35	Cathode Interfaces: Effect of Electrolyte Additives on the $\text{LiNi}_{0.5}\text{Mn}_{0.3}\text{Co}_{0.2}\text{O}_2$ Surface Film Formation with Lithium and Graphite Negative Electrodes ( <i>Adv. Mater. Interfaces</i> 1/2020). <i>Advanced Materials Interfaces</i> , 2020, 7, 2070005.	1.9	0
36	On the Road Toward High Performance Layered Transition Metal Oxide Cathodes for Application in Full Sodium-Ion Battery. <i>ECS Meeting Abstracts</i> , 2016, , .	0.0	0

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37	(Invited) Mechanistic Study of Sodium Insertion into Bio-Waste Derived Hard Carbon Anode for Sodium-Ion Batteries. ECS Meeting Abstracts, 2020, MA2020-02, 5-5.	0.0	0