

# Jelena Popovic

## List of Publications by Year in descending order

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Version: 2024-02-01

29  
papers

1,820  
citations

394421

19  
h-index

501196

28  
g-index

31  
all docs

31  
docs citations

31  
times ranked

2415  
citing authors

#	ARTICLE	IF	CITATIONS
1	Fundamentals, status and promise of sodium-based batteries. <i>Nature Reviews Materials</i> , 2021, 6, 1020-1035.	48.7	496
2	Towards better Li metal anodes: Challenges and strategies. <i>Materials Today</i> , 2020, 33, 56-74.	14.2	404
3	Ultrafast lithium diffusion in bilayer graphene. <i>Nature Nanotechnology</i> , 2017, 12, 895-900.	31.5	149
4	Soggy-sand electrolytes: status and perspectives. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 18318.	2.8	91
5	LiFePO <sub>4</sub> Mesocrystals for Lithium-Ion Batteries. <i>Small</i> , 2011, 7, 1127-1135.	10.0	83
6	Interfacial Effects in Solid-Liquid Electrolytes for Improved Stability and Performance of Dye-Sensitized Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 37797-37803.	8.0	76
7	The importance of electrode interfaces and interphases for rechargeable metal batteries. <i>Nature Communications</i> , 2021, 12, 6240.	12.8	49
8	Size-Dependent Staging and Phase Transition in LiFePO <sub>4</sub> /FePO <sub>4</sub> . <i>Advanced Functional Materials</i> , 2014, 24, 312-318.	14.9	48
9	Dielectric resonator antenna with Y <sub>3</sub> Al <sub>5</sub> O <sub>12</sub> transparent dielectric ceramics for 5G millimeter-wave applications. <i>Journal of the American Ceramic Society</i> , 2021, 104, 4659-4668.	3.8	41
10	Polymer-based hybrid battery electrolytes: theoretical insights, recent advances and challenges. <i>Journal of Materials Chemistry A</i> , 2021, 9, 6050-6069.	10.3	40
11	Dielectric resonator antennas based on high quality factor MgAl <sub>2</sub> O <sub>4</sub> transparent dielectric ceramics. <i>Journal of Materials Chemistry C</i> , 2020, 8, 14880-14885.	5.5	37
12	High Lithium Transference Number Electrolytes Containing Tetratriflylpropene's Lithium Salt. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 5116-5120.	4.6	35
13	Lithium Potential Variations for Metastable Materials: Case Study of Nanocrystalline and Amorphous LiFePO <sub>4</sub> . <i>Nano Letters</i> , 2014, 14, 5342-5349.	9.1	33
14	Solid Electrolyte Interphase Evolution on Lithium Metal in Contact with Glyme-Based Electrolytes. <i>Small</i> , 2020, 16, e2000756.	10.0	31
15	Soggy-sand effects in liquid composite electrolytes with mesoporous materials as fillers. <i>Journal of Materials Chemistry A</i> , 2013, 1, 12560.	10.3	29
16	Infiltrated porous oxide monoliths as high lithium transference number electrolytes. <i>Journal of Materials Chemistry A</i> , 2016, 4, 7135-7140.	10.3	29
17	Porosity of Solid Electrolyte Interphases on Alkali Metal Electrodes with Liquid Electrolytes. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 51767-51774.	8.0	21
18	Charging and Discharging Behavior of Solvothermal LiFePO <sub>4</sub> Cathode Material Investigated by Combined EELS/NEXAFS Study. <i>Chemistry of Materials</i> , 2014, 26, 1040-1047.	6.7	20

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19	Solid Electrolyte Interphase Growth on Mg Metal Anode: Case Study of Glyme-Based Electrolytes. <i>Energy Technology</i> , 2021, 9, 2001056.	3.8	19
20	High-Quality-Factor AlON Transparent Ceramics for 5 GHz Wi-Fi Aesthetically Decorative Antennas. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 46866-46874.	8.0	16
21	Review—Recent Advances in Understanding Potassium Metal Anodes. <i>Journal of the Electrochemical Society</i> , 2022, 169, 030510.	2.9	15
22	Determination of individual contributions to the ionic conduction in liquid electrolytes: Case study of LiTf/PEGDME-150. <i>Electrochemistry Communications</i> , 2015, 60, 195-198.	4.7	13
23	Glyme-based liquid—solid electrolytes for lithium metal batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 13331-13338.	10.3	13
24	Influence of Porosity of Sulfide-Based Artificial Solid Electrolyte Interphases on Their Performance with Liquid and Solid Electrolytes in Li and Na Metal Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 16147-16156.	8.0	11
25	Dual-Band Filtering Dielectric Antenna Using High-Quality-Factor $Y_{3}Al_{5}O_{12}$ Transparent Dielectric Ceramic. <i>Advanced Engineering Materials</i> , 2021, 23, 2100115.	3.5	10
26	Dry Polymer Electrolyte Concepts for Solid-State Batteries. <i>Macromolecular Chemistry and Physics</i> , 2022, 223, 2100344.	2.2	7
27	Interfacial Layering and Screening Behavior of Glyme-Based Lithium Electrolytes. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 577-582.	4.6	3
28	Nanostructured alkali and alkaline earth metal interfaces for high-energy batteries. <i>Frontiers of Nanoscience</i> , 2021, 19, 327-359.	0.6	1
29	Solid Electrolyte Interphase on Li/Na Anodes in Contact with Liquid Electrolytes. <i>ECS Meeting Abstracts</i> , 2021, MA2021-01, 445-445.	0.0	0