

# B Reeja-Jayan

## List of Publications by Year in descending order

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Version: 2024-02-01

25  
papers

582  
citations

840776

11  
h-index

610901

24  
g-index

25  
all docs

25  
docs citations

25  
times ranked

1014  
citing authors

#	ARTICLE	IF	CITATIONS
1	Conductive Surface Modification with Aluminum of High Capacity Layered $\text{Li}[\text{Li}_{0.2}\text{Mn}_{0.54}\text{Ni}_{0.13}\text{Co}_{0.13}]_2\text{O}_7$ Cathodes. <i>Journal of Physical Chemistry C</i> , 2010, 114, 9528-9533.	3.1	152
2	Microwave-assisted Low-temperature Growth of Thin Films in Solution. <i>Scientific Reports</i> , 2012, 2, 1003.	3.3	56
3	Rechargeable Soft-Matter $\text{EGaIn-MnO}_2$ Battery for Stretchable Electronics. <i>Advanced Energy Materials</i> , 2019, 9, 1902798.	19.5	54
4	The effects of external fields in ceramic sintering. <i>Journal of the American Ceramic Society</i> , 2019, 102, 5-31.	3.8	44
5	Surface Engineering of a $\text{LiMn}_2\text{O}_4$ Electrode Using Nanoscale Polymer Thin Films via Chemical Vapor Deposition Polymerization. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 27063-27073.	8.0	43
6	Thermal conductivity of poly(3,4-ethylenedioxythiophene) films engineered by oxidative chemical vapor deposition (oCVD). <i>RSC Advances</i> , 2018, 8, 19348-19352.	3.6	28
7	Tailoring Electrode-Electrolyte Interfaces in Lithium-Ion Batteries Using Molecularly Engineered Functional Polymers. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 9919-9931.	8.0	27
8	Effects of bifunctional metal sulfide interlayers on photovoltaic properties of organic-inorganic hybrid solar cells. <i>RSC Advances</i> , 2013, 3, 5412.	3.6	26
9	Unlocking the structure of mixed amorphous-crystalline ceramic oxide films synthesized under low temperature electromagnetic excitation. <i>Journal of Materials Chemistry A</i> , 2017, 5, 18434-18441.	10.3	20
10	Multiscale operando X-ray investigations provide insights into electro-chemo-mechanical behavior of lithium intercalation cathodes. <i>Applied Energy</i> , 2021, 299, 117315.	10.1	17
11	Understanding the Improved Stability of Hybrid Polymer Solar Cells Fabricated with Copper Electrodes. <i>ACS Applied Materials &amp; Interfaces</i> , 2011, 3, 1492-1501.	8.0	16
12	<i>in situ</i> synchrotron pair distribution function analysis to monitor synthetic pathways under electromagnetic excitation. <i>Journal of Materials Chemistry A</i> , 2020, 8, 15909-15918.	10.3	11
13	Design for low-temperature microwave-assisted crystallization of ceramic thin films. <i>Applied Stochastic Models in Business and Industry</i> , 2017, 33, 314-321.	1.5	10
14	Engineering lithium-ion battery cathodes for high-voltage applications using electromagnetic excitation. <i>Journal of Materials Science</i> , 2020, 55, 12177-12190.	3.7	10
15	Far-from-equilibrium effects of electric and electromagnetic fields in ceramics synthesis and processing. <i>MRS Bulletin</i> , 2021, 46, 26-35.	3.5	10
16	Low-cost, $\text{Mo}(\text{S},\text{Se})_2$ -free superstrate-type solar cells fabricated with tunable band gap $\text{Cu}_2\text{ZnSn}(\text{S}_{1-x}\text{Se}_x)_4$ nanocrystal-based inks and the effect of sulfurization. <i>RSC Advances</i> , 2013, 3, 19946.	3.6	9
17	Effect of interfacial dipoles on charge traps in organic-inorganic hybrid solar cells. <i>Journal of Materials Chemistry A</i> , 2013, 1, 3258.	10.3	9
18	<i>Operando</i> Particle-Scale Characterization of Silicon Anode Degradation during Cycling by Ultrahigh-Resolution X-ray Microscopy and Computed Tomography. <i>ACS Applied Energy Materials</i> , 2021, 4, 1657-1665.	5.1	9

#	ARTICLE	IF	CITATIONS
19	Synchrotron X-ray characterization of materials synthesized under microwave irradiation. Journal of Materials Research, 2019, 34, 194-205.	2.6	8
20	Oligomeric interface modifiers in hybrid polymer solar cell prototypes investigated by fluorescence voltage spectroscopy. Physical Chemistry Chemical Physics, 2015, 17, 10640-10647.	2.8	6
21	Defect-Mediated Anisotropic Lattice Expansion in Ceramics as Evidence for Nonthermal Coupling between Electromagnetic Fields and Matter. Advanced Engineering Materials, 2019, 21, 1900762.	3.5	6
22	Designing reliable electrochemical cells for operando lithium-ion battery study. MethodsX, 2021, 8, 101562.	1.6	5
23	Isolating Specific vs. Non-Specific Binding Responses in Conducting Polymer Biosensors for Bio-Fingerprinting. Sensors, 2021, 21, 6335.	3.8	2
24	Linking far-from-equilibrium defect structures in ceramics to electromagnetic driving forces. Journal of Materials Chemistry A, 2021, 9, 8425-8434.	10.3	2
25	Process development for the laser powder bed fusion of WC-Ni Cermets using sintered agglomerated powder. International Journal of Applied Ceramic Technology, 2022, 19, 1328-1340.	2.1	2