

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	Process development for the laser powder bed fusion of WCâ€Ni Cermets using sinteredâ€agglomerated powder. International Journal of Applied Ceramic Technology, 2022, 19, 1328-1340.	2.1	2
2	Far-from-equilibrium effects of electric and electromagnetic fields in ceramics synthesis and processing. MRS Bulletin, 2021, 46, 26-35.	3.5	10
3	Tailoring Electrodeâ€Electrolyte Interfaces in Lithium-Ion Batteries Using Molecularly Engineered Functional Polymers. ACS Applied Materials & Interfaces, 2021, 13, 9919-9931.	8.0	27
4	<i>Operando</i> Particle-Scale Characterization of Silicon Anode Degradation during Cycling by Ultrahigh-Resolution X-ray Microscopy and Computed Tomography. ACS Applied Energy Materials, 2021, 4, 1657-1665.	5.1	9
5	Isolating Specific vs. Non-Specific Binding Responses in Conducting Polymer Biosensors for Bio-Fingerprinting. Sensors, 2021, 21, 6335.	3.8	2
6	Multiscale operando X-ray investigations provide insights into electro-chemo-mechanical behavior of lithium intercalation cathodes. Applied Energy, 2021, 299, 117315.	10.1	17
7	Linking far-from-equilibrium defect structures in ceramics to electromagnetic driving forces. Journal of Materials Chemistry A, 2021, 9, 8425-8434.	10.3	2
8	Designing reliable electrochemical cells for operando lithium-ion battery study. MethodsX, 2021, 8, 101562.	1.6	5
9	<i>In situ</i> synchrotron pair distribution function analysis to monitor synthetic pathways under electromagnetic excitation. Journal of Materials Chemistry A, 2020, 8, 15909-15918.	10.3	11
10	Engineering lithium-ion battery cathodes for high-voltage applications using electromagnetic excitation. Journal of Materials Science, 2020, 55, 12177-12190.	3.7	10
11	Rechargeable Softâ€Matter EGaInâ€MnO ₂ Battery for Stretchable Electronics. Advanced Energy Materials, 2019, 9, 1902798.	19.5	54
12	Defectâ€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
13	Synchrotron X-ray characterization of materials synthesized under microwave irradiation. Journal of Materials Research, 2019, 34, 194-205.	2.6	8
14	The effects of external fields in ceramic sintering. Journal of the American Ceramic Society, 2019, 102, 5-31.	3.8	44
15	Thermal conductivity of poly(3,4-ethylenedioxythiophene) films engineered by oxidative chemical vapor deposition (oCVD). RSC Advances, 2018, 8, 19348-19352.	3.6	28
16	Surface Engineering of a LiMn ₂ O ₄ Electrode Using Nanoscale Polymer Thin Films via Chemical Vapor Deposition Polymerization. ACS Applied Materials & Interfaces, 2018, 10, 27063-27073.	8.0	43
17	Unlocking the structure of mixed amorphous-crystalline ceramic oxide films synthesized under low temperature electromagnetic excitation. Journal of Materials Chemistry A, 2017, 5, 18434-18441.	10.3	20
18	Design for lowâ€temperature microwaveâ€assisted crystallization of ceramic thin films. Applied Stochastic Models in Business and Industry, 2017, 33, 314-321.	1.5	10

#	ARTICLE	IF	CITATIONS
19	Oligomeric interface modifiers in hybrid polymer solar cell prototypes investigated by fluorescence voltage spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 10640-10647.	2.8	6
20	Low-cost, Mo(S,Se) ₂ -free superstrate-type solar cells fabricated with tunable band gap Cu ₂ ZnSn(S _{1-x} Se _x) ₄ nanocrystal-based inks and the effect of sulfurization. <i>RSC Advances</i> , 2013, 3, 19946.	3.6	9
21	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
22	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
23	Microwave-assisted Low-temperature Growth of Thin Films in Solution. <i>Scientific Reports</i> , 2012, 2, 1003.	3.3	56
24	Understanding the Improved Stability of Hybrid Polymer Solar Cells Fabricated with Copper Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2011, 3, 1492-1501.	8.0	16
25	Conductive Surface Modification with Aluminum of High Capacity Layered Li _{0.2} Mn _{0.54} Ni _{0.13} Co _{0.13} O ₂ Cathodes. <i>Journal of Physical Chemistry C</i> , 2010, 114, 9528-9533.	3.1	152