

Afsal Manekkathodi

List of Publications by Year in descending order

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Version: 2024-02-01

20
papers

828
citations

687363

13
h-index

888059

17
g-index

23
all docs

23
docs citations

23
times ranked

1688
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct Growth of Aligned Zinc Oxide Nanorods on Paper Substrates for Low-Cost Flexible Electronics. <i>Advanced Materials</i> , 2010, 22, 4059-4063.	21.0	344
2	CuSCN as Hole Transport Material with 3D/2D Perovskite Solar Cells. <i>ACS Applied Energy Materials</i> , 2020, 3, 114-121.	5.1	83
3	Electric-Field Control of Ferromagnetism in Mn-Doped ZnO Nanowires. <i>Nano Letters</i> , 2014, 14, 1823-1829.	9.1	76
4	Highly sensitive metal-insulator-semiconductor UV photodetectors based on ZnO/SiO ₂ core-shell nanowires. <i>Journal of Materials Chemistry</i> , 2012, 22, 8420.	6.7	52
5	Solution-processed perovskite-colloidal quantum dot tandem solar cells for photon collection beyond 1000 nm. <i>Journal of Materials Chemistry A</i> , 2019, 7, 26020-26028.	10.3	44
6	Chemiosmotic and murburn explanations for aerobic respiration: Predictive capabilities, structure-function correlations and chemico-physical logic. <i>Archives of Biochemistry and Biophysics</i> , 2019, 676, 108128.	3.0	34
7	Integrated optical waveguide and photodetector arrays based on comb-like ZnO structures. <i>Nanoscale</i> , 2013, 5, 12185.	5.6	30
8	Electron Field Emission Enhancement of Vertically Aligned Ultrananocrystalline Diamond-Coated ZnO Core-Shell Heterostructured Nanorods. <i>Small</i> , 2014, 10, 179-185.	10.0	23
9	Light's interaction with pigments in chloroplasts: The murburn perspective. <i>Journal of Photochemistry and Photobiology</i> , 2021, 5, 100015.	2.5	22
10	Multilevel resistance switching of individual Cu ₂ S nanowires with inert electrodes. <i>Nano Energy</i> , 2015, 15, 362-368.	16.0	21
11	Anomalous adhesive superhydrophobicity on aligned ZnO nanowire arrays grown on a lotus leaf. <i>Journal of Materials Chemistry</i> , 2011, 21, 18061.	6.7	20
12	Validating the predictions of murburn model for oxygenic photosynthesis: Analyses of ligand-binding to protein complexes and cross-system comparisons. <i>Journal of Biomolecular Structure and Dynamics</i> , 2022, 40, 11024-11056.	3.5	18
13	Structure-function correlations and system dynamics in oxygenic photosynthesis: classical perspectives and murburn precepts. <i>Journal of Biomolecular Structure and Dynamics</i> , 2022, 40, 10997-11023.	3.5	15
14	Complete Replacement of Metal in Metal Oxide Nanowires via Atomic Diffusion: In/ZnO Case Study. <i>Nano Letters</i> , 2014, 14, 3241-3246.	9.1	13
15	Observation of Structural Phase Transitions and PbI ₂ Formation During the Degradation of Triple-Cation Double-Halide Perovskites. <i>ACS Applied Energy Materials</i> , 2020, 3, 6302-6309.	5.1	11
16	Role of Carbon Nanotube Interlayer in Enhancing the Electron Field Emission Behavior of Ultrananocrystalline Diamond Coated Si-Tip Arrays. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 7732-7740.	8.0	10
17	Murburn Model of Photosynthesis: Effect of Additives like Chloride and Bicarbonate. , 0, , .		4
18	Unusual Bimodal Photovoltaic Performance of Perovskite Solar Cells at Real-World Operating Temperatures. <i>Journal of Physical Chemistry C</i> , 2020, 124, 9118-9125.	3.1	2

#	ARTICLE	IF	CITATIONS
19	CuI and CuSCN as Hole Transport Materials for Perovskite Solar Cells. , 2018, , .		0
20	Solution-processed Perovskite-colloidal Quantum Dot Tandem Solar Cells for Photon Collection Beyond 1000 nm. , 0, , .		0