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	Validating the predictions of murburn model for oxygenic photosynthesis: Analyses of ligand-binding to protein complexes and cross-system comparisons. Journal of Biomolecular Structure and Dynamics, 2022, 40, 11024-11056.	3.5	18
2	Structure-function correlations and system dynamics in oxygenic photosynthesis: classical perspectives and murburn precepts. Journal of Biomolecular Structure and Dynamics, 2022, 40, 10997-11023.	3.5	15
3	Light's interaction with pigments in chloroplasts: The murburn perspective. Journal of Photochemistry and Photobiology, 2021, 5, 100015.	2.5	22
4	CuSCN as Hole Transport Material with 3D/2D Perovskite Solar Cells. ACS Applied Energy Materials, 2020, 3, 114-121.	5.1	83
5	Observation of Structural Phase Transitions and PbI₂ Formation During the Degradation of Triple-Cation Double-Halide Perovskites. ACS Applied Energy Materials, 2020, 3, 6302-6309.	5.1	11
6	Unusual Bimodal Photovoltaic Performance of Perovskite Solar Cells at Real-World Operating Temperatures. Journal of Physical Chemistry C, 2020, 124, 9118-9125.	3.1	2
7	Chemiosmotic and murburn explanations for aerobic respiration: Predictive capabilities, structure-function correlations and chemico-physical logic. Archives of Biochemistry and Biophysics, 2019, 676, 108128.	3.0	34
8	Solution-processed perovskite-colloidal quantum dot tandem solar cells for photon collection beyond 1000 nm. Journal of Materials Chemistry A, 2019, 7, 26020-26028.	10.3	44
9	CuI and CuSCN as Hole Transport Materials for Perovskite Solar Cells. , 2018, , .		0
10	Multilevel resistance switching of individual Cu2S nanowires with inert electrodes. Nano Energy, 2015, 15, 362-368.	16.0	21
11	Role of Carbon Nanotube Interlayer in Enhancing the Electron Field Emission Behavior of Ultrananocrystalline Diamond Coated Si-Tip Arrays. ACS Applied Materials & Interfaces, 2015, 7, 7732-7740.	8.0	10
12	Electron Field Emission Enhancement of Vertically Aligned Ultrananocrystalline Diamondâ€Coated ZnO Coreâ€“Shell Heterostructured Nanorods. Small, 2014, 10, 179-185.	10.0	23
13	Electric-Field Control of Ferromagnetism in Mn-Doped ZnO Nanowires. Nano Letters, 2014, 14, 1823-1829.	9.1	76
14	Complete Replacement of Metal in Metal Oxide Nanowires via Atomic Diffusion: In/ZnO Case Study. Nano Letters, 2014, 14, 3241-3246.	9.1	13
15	Integrated optical waveguide and photodetector arrays based on comb-like ZnO structures. Nanoscale, 2013, 5, 12185.	5.6	30
16	Highly sensitive metalâ€“insulatorâ€“semiconductor UV photodetectors based on ZnO/SiO2 coreâ€“shell nanowires. Journal of Materials Chemistry, 2012, 22, 8420.	6.7	52
17	Anomalous adhesive superhydrophobicity on aligned ZnO nanowire arrays grown on a lotus leaf. Journal of Materials Chemistry, 2011, 21, 18061.	6.7	20
18	Direct Growth of Aligned Zinc Oxide Nanorods on Paper Substrates for Lowâ€Cost Flexible Electronics. Advanced Materials, 2010, 22, 4059-4063.	21.0	344

#	Article	IF	Citations
19	Solution-processed Perovskite-colloidal Quantum Dot Tandem Solar Cells for Photon Collection Beyond 1000 nm. , 0, , .		0
20	Murburn Model of Photosynthesis: Effect of Additives like Chloride and Bicarbonate. , 0, , .		4