Vikas Nandal

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/5915904/publications.pdf

Version: 2024-02-01

27 papers	1,595 citations	1051969 10 h-index	939365 18 g-index
27 all docs	27 docs citations	27 times ranked	2196 citing authors

#	Article	IF	Citations
1	Design Predictions of nâ€“n Heterojunction Based Photoanode for Efficient Unbiased Overall Solar Water Splitting. Energy Technology, 2022, 10, 2100570.	1.8	5
2	Thermoelectrochemical Cells Based on Ferricyanide/Ferrocyanide/Guanidinium: Application and Challenges. ACS Applied Materials & Interfaces, 2022, , .	4.0	7
3	Probing fundamental losses in nanostructured Ta₃N₅ photoanodes: design principles for efficient water oxidation. Energy and Environmental Science, 2021, 14, 4038-4047.	15.6	31
4	Antimony chalcogenide-based thin film solar cells: Device engineering routes to boost the performance. Journal of Applied Physics, 2021, 129, .	1.1	10
5	Determining interfacial resistance in thermoelectrochemical cells using transmission line measurement. Applied Physics Letters, 2021, 118, .	1.5	2
6	The sputter-based synthesis of tantalum oxynitride nanoparticles with architecture and bandgap controlled by design. Applied Surface Science, 2021, 559, 149974.	3.1	11
7	Insight into the effect of the configuration entropy of additives on the Seebeck coefficient. Physical Chemistry Chemical Physics, 2021, 23, 14803-14810.	1.3	5
8	Deciphering the capacitance frequency technique for performance-limiting defect-state parameters in energy-harvesting perovskites. Physical Chemistry Chemical Physics, 2021, 23, 24421-24427.	1.3	4
9	Unveiling charge dynamics of visible light absorbing oxysulfide for efficient overall water splitting. Nature Communications, 2021, 12, 7055.	5.8	31
10	Photocatalytic water splitting with a quantum efficiency of almost unity. Nature, 2020, 581, 411-414.	13.7	1,227
11	Ta₃N₅-Nanorods enabling highly efficient water oxidation via advantageous light harvesting and charge collection. Energy and Environmental Science, 2020, 13, 1519-1530.	15.6	80
12	Development of a Coreâ€“Shell Heterojunction Ta₃N₅-Nanorods/BaTaO₂N Photoanode for Solar Water Splitting. ACS Energy Letters, 2020, 5, 2492-2497.	8.8	58
13	Theoretical perspective of performance-limiting parameters of Cu(In_{1â^'x}Ga_x)Se₂-based photocathodes. Journal of Materials Chemistry A, 2020, 8, 9194-9201.	5.2	11
14	Ion induced passivation of grain boundaries in perovskite solar cells. Journal of Applied Physics, 2019, 125, .	1.1	13
15	Anomalous Scaling Exponents in the Capacitanceâ€“Voltage Characteristics of Perovskite Thin Film Devices. Journal of Physical Chemistry C, 2018, 122, 27935-27940.	1.5	10
16	Efficient Organic Photovoltaics with Improved Charge Extraction and High Short-Circuit Current. Journal of Physical Chemistry C, 2017, 121, 5523-5530.	1.5	26
17	Predictive Modeling of Ion Migration Induced Degradation in Perovskite Solar Cells. ACS Nano, 2017, 11, 11505-11512.	7.3	63
18	Anomalous Efficiency Scaling with Dark Current in Perovskite Solar Cells. , 2017, , .		0

#	Article	IF	Citations
19	Optimal transport layers for perovskite based solar cells. , 2016, , .		0
20	Effect of interface charges on the efficiency of perovskite based solar cells. , 2016, , .		0
21	Numerical investigation of capacitance frequency technique for perovskite based solar cells. , 2015, , .		0
22	Magnon scattering in single and bilayer graphene intercalates. Journal of Applied Physics, 2012, 112, 114308.	1.1	1
23	Monte Carlo simulation study of spin transport in multilayer graphene with Bernal stacking. Journal of Applied Physics, 2012, 112, 023708.	1.1	0
24	Diameter dependence of spin relaxation in SiGe nanowires. , 2012, , .		0
25	Influence of electron-electron scattering on spin relaxation length in single and bilayer graphene. , 2012, , .		0
26	Frequency reduction in Quantum dot cellular automata. , 2012, , .		0
27	Local charge carrier dynamics of a particulate Ga-doped La₅Ti₂Cu_{0.9}Ag_{0.1}O₇S₅ photocatalyst and the impact of Rh cocatalysts. Physical Chemistry Chemical Physics, 0, , .	1.3	0