Ujwal Kumar Thakur

List of Publications by Year
in descending order

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Version: 2024-02-01

23 papers	1,358 citations	567281 15 h-index	677142 22 g-index
23 all docs	23 docs citations	23 times ranked	2129 citing authors

#	Article	IF	Citations
1	C₃N₅: A Low Bandgap Semiconductor Containing an Azo-Linked Carbon Nitride Framework for Photocatalytic, Photovoltaic and Adsorbent Applications. Journal of the American Chemical Society, 2019, 141, 5415-5436.	13.7	464
2	A review on photocatalytic CO₂reduction using perovskite oxide nanomaterials. Nanotechnology, 2018, 29, 052001.	2.6	192
3	High rate CO2 photoreduction using flame annealed TiO2 nanotubes. Applied Catalysis B: Environmental, 2019, 243, 522-536.	20.2	123
4	Enhanced charge separation in g-C₃N₄â€“BiOI heterostructures for visible light driven photoelectrochemical water splitting. Nanoscale Advances, 2019, 1, 1460-1471.	4.6	115
5	Arrays of TiO2 nanorods embedded with fluorine doped carbon nitride quantum dots (CNFQDs) for visible light driven water splitting. Carbon, 2018, 137, 174-187.	10.3	70
6	Halide perovskite solar cells using monocrystalline TiO₂nanorod arrays as electron transport layers: impact of nanorod morphology. Nanotechnology, 2017, 28, 274001.	2.6	67
7	Investigation into the Advantages of Pure Perovskite Film without PbI2 for High Performance Solar Cell. Scientific Reports, 2016, 6, 35994.	3.3	42
8	One-Dimensional Electron Transport Layers for Perovskite Solar Cells. Nanomaterials, 2017, 7, 95.	4.1	41
9	Flexible and Ultrasoft Inorganic 1D Semiconductor and Heterostructure Systems Based on SnIP. Advanced Functional Materials, 2019, 29, 1900233.	14.9	37
10	N-phenylindole-diketopyrrolopyrrole-containing narrow band-gap materials for dopant-free hole transporting layer of perovskite solar cell. Organic Electronics, 2016, 37, 134-140.	2.6	36
11	Subwavelength nanocavity for flexible structural transmissive color generation with a wide viewing angle. Optica, 2016, 3, 1489.	9.3	30
12	Vapor Deposition of Semiconducting Phosphorus Allotropes into TiO₂ Nanotube Arrays for Photoelectrocatalytic Water Splitting. ACS Applied Nano Materials, 2019, 2, 3358-3367.	5.0	30
13	Nanophotonic enhancement and improved electron extraction in perovskite solar cells using near-horizontally aligned TiO2 nanorods. Journal of Power Sources, 2019, 417, 176-187.	7.8	17
14	Preferentially oriented TiO₂ nanotube arrays on non-native substrates and their improved performance as electron transporting layer in halide perovskite solar cells. Nanotechnology, 2019, 30, 204003.	2.6	17
15	Remarkable self-organization and unusual conductivity behavior in cellulose nanocrystal-PEDOT: PSS nanocomposites. Journal of Materials Science: Materials in Electronics, 2019, 30, 1390-1399.	2.2	16
16	Threshold hydrophobicity for inhibition of salt scale formation on SAM-modified titania nanotube arrays. Applied Surface Science, 2019, 473, 282-290.	6.1	15
17	All-Optical Ultrasound Transducer Using CNT-PDMS and Etalon Thin-Film Structure. IEEE Photonics Journal, 2015, 7, 1-8.	2.0	11
18	Vapor growth of binary and ternary phosphorus-based semiconductors into TiO₂ nanotube arrays and application in visible light driven water splitting. Nanoscale Advances, 2019, 1, 2881-2890.	4.6	11

#	Article	IF	Citations
19	Life cycle assessment of high-performance monocrystalline titanium dioxide nanorod-based perovskite solar cells. Solar Energy Materials and Solar Cells, 2021, 230, 111288.	6.2	10
20	Soft-Contact Printing of Nanoparticle-Based Nanoink for Functional Nanopatterns. Journal of Nanomaterials, 2015, 2015, 1-6.	2.7	5
21	Techno-economic assessment of titanium dioxide nanorod-based perovskite solar cells: From lab-scale to large-scale manufacturing. Applied Energy, 2021, 298, 117251.	10.1	5
22	Transparent nanoporous P-type NiO films grown directly on non-native substrates by anodization. Journal of Materials Science: Materials in Electronics, 2019, 30, 11327-11335.	2.2	4
23	Hybrid Materials: Flexible and Ultrasoft Inorganic 1D Semiconductor and Heterostructure Systems Based on SnIP (Adv. Funct. Mater. 18/2019). Advanced Functional Materials, 2019, 29, 1970120.	14.9	0