

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
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23
all docs

23
docs citations

23
times ranked

2129
citing authors

#	ARTICLE	IF	CITATIONS
1	Techno-economic assessment of titanium dioxide nanorod-based perovskite solar cells: From lab-scale to large-scale manufacturing. <i>Applied Energy</i> , 2021, 298, 117251.	10.1	5
2	Life cycle assessment of high-performance monocrystalline titanium dioxide nanorod-based perovskite solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2021, 230, 111288.	6.2	10
3	High rate CO ₂ photoreduction using flame annealed TiO ₂ nanotubes. <i>Applied Catalysis B: Environmental</i> , 2019, 243, 522-536.	20.2	123
4	Enhanced charge separation in g-C ₃ N ₄ –BiOI heterostructures for visible light driven photoelectrochemical water splitting. <i>Nanoscale Advances</i> , 2019, 1, 1460-1471.	4.6	115
5	Vapor growth of binary and ternary phosphorus-based semiconductors into TiO ₂ nanotube arrays and application in visible light driven water splitting. <i>Nanoscale Advances</i> , 2019, 1, 2881-2890.	4.6	11
6	Vapor Deposition of Semiconducting Phosphorus Allotropes into TiO ₂ Nanotube Arrays for Photoelectrocatalytic Water Splitting. <i>ACS Applied Nano Materials</i> , 2019, 2, 3358-3367.	5.0	30
7	Transparent nanoporous P-type NiO films grown directly on non-native substrates by anodization. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 11327-11335.	2.2	4
8	Hybrid Materials: Flexible and Ultrasoft Inorganic 1D Semiconductor and Heterostructure Systems Based on SnIP (<i>Adv. Funct. Mater.</i> 18/2019). <i>Advanced Functional Materials</i> , 2019, 29, 1970120.	14.9	0
9	Flexible and Ultrasoft Inorganic 1D Semiconductor and Heterostructure Systems Based on SnIP. <i>Advanced Functional Materials</i> , 2019, 29, 1900233.	14.9	37
10	Nanophotonic enhancement and improved electron extraction in perovskite solar cells using near-horizontally aligned TiO ₂ nanorods. <i>Journal of Power Sources</i> , 2019, 417, 176-187.	7.8	17
11	C ₃ N ₅ : A Low Bandgap Semiconductor Containing an Azo-Linked Carbon Nitride Framework for Photocatalytic, Photovoltaic and Adsorbent Applications. <i>Journal of the American Chemical Society</i> , 2019, 141, 5415-5436.	13.7	464
12	Remarkable self-organization and unusual conductivity behavior in cellulose nanocrystal-PEDOT: PSS nanocomposites. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 1390-1399.	2.2	16
13	Preferentially oriented TiO ₂ nanotube arrays on non-native substrates and their improved performance as electron transporting layer in halide perovskite solar cells. <i>Nanotechnology</i> , 2019, 30, 204003.	2.6	17
14	Threshold hydrophobicity for inhibition of salt scale formation on SAM-modified titania nanotube arrays. <i>Applied Surface Science</i> , 2019, 473, 282-290.	6.1	15
15	A review on photocatalytic CO ₂ reduction using perovskite oxide nanomaterials. <i>Nanotechnology</i> , 2018, 29, 052001.	2.6	192
16	Arrays of TiO ₂ nanorods embedded with fluorine doped carbon nitride quantum dots (CNFQDs) for visible light driven water splitting. <i>Carbon</i> , 2018, 137, 174-187.	10.3	70
17	Halide perovskite solar cells using monocrystalline TiO ₂ nanorod arrays as electron transport layers: impact of nanorod morphology. <i>Nanotechnology</i> , 2017, 28, 274001.	2.6	67
18	One-Dimensional Electron Transport Layers for Perovskite Solar Cells. <i>Nanomaterials</i> , 2017, 7, 95.	4.1	41

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19	Subwavelength nanocavity for flexible structural transmissive color generation with a wide viewing angle. <i>Optica</i> , 2016, 3, 1489.	9.3	30
20	N-phenylindole-diketopyrrolopyrrole-containing narrow band-gap materials for dopant-free hole transporting layer of perovskite solar cell. <i>Organic Electronics</i> , 2016, 37, 134-140.	2.6	36
21	Investigation into the Advantages of Pure Perovskite Film without PbI ₂ for High Performance Solar Cell. <i>Scientific Reports</i> , 2016, 6, 35994.	3.3	42
22	Soft-Contact Printing of Nanoparticle-Based Nanoink for Functional Nanopatterns. <i>Journal of Nanomaterials</i> , 2015, 2015, 1-6.	2.7	5
23	All-Optical Ultrasound Transducer Using CNT-PDMS and Etalon Thin-Film Structure. <i>IEEE Photonics Journal</i> , 2015, 7, 1-8.	2.0	11