Piyush Kar

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Effect of morphology on the photoelectrochemical performance of nanostructured Cu ₂ O photocathodes. Nanotechnology, 2021, 32, 374001.	1.3	7
2	Consistently High <i>V</i> _{oc} Values in p-i-n Type Perovskite Solar Cells Using Ni ³⁺ -Doped NiO Nanomesh as the Hole Transporting Layer. ACS Applied Materials & Interfaces, 2020, 12, 11467-11478.	4.0	48
3	Noble Metal Free, Visible Light Driven Photocatalysis Using TiO 2 Nanotube Arrays Sensitized by Pâ€Doped C 3 N 4 Quantum Dots. Advanced Optical Materials, 2020, 8, 1901275.	3.6	48
4	Optical control of selectivity of high rate CO2 photoreduction via interband- or hot electron Z-scheme reaction pathways in Au-TiO2 plasmonic photonic crystal photocatalyst. Applied Catalysis B: Environmental, 2020, 267, 118644.	10.8	92
5	Mapping the surface potential, charge density and adhesion of cellulose nanocrystals using advanced scanning probe microscopy. Carbohydrate Polymers, 2020, 246, 116393.	5.1	9
6	High rate CO2 photoreduction using flame annealed TiO2 nanotubes. Applied Catalysis B: Environmental, 2019, 243, 522-536.	10.8	123
7	Behavior of α, β tubulin in DMSO-containing electrolytes. Nanoscale Advances, 2019, 1, 3364-3371.	2.2	6
8	Enhanced charge separation in g-C ₃ N ₄ –BiOI heterostructures for visible light driven photoelectrochemical water splitting. Nanoscale Advances, 2019, 1, 1460-1471.	2.2	115
9	Vapor growth of binary and ternary phosphorus-based semiconductors into TiO ₂ nanotube arrays and application in visible light driven water splitting. Nanoscale Advances, 2019, 1, 2881-2890.	2.2	11
10	Vapor Deposition of Semiconducting Phosphorus Allotropes into TiO ₂ Nanotube Arrays for Photoelectrocatalytic Water Splitting. ACS Applied Nano Materials, 2019, 2, 3358-3367.	2.4	30
11	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.	1.1	4
12	Nanophotonic enhancement and improved electron extraction in perovskite solar cells using near-horizontally aligned TiO2 nanorods. Journal of Power Sources, 2019, 417, 176-187.	4.0	17
13	C ₃ N ₅ : 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.	6.6	464
14	Remarkable self-organization and unusual conductivity behavior in cellulose nanocrystal-PEDOT: PSS nanocomposites. Journal of Materials Science: Materials in Electronics, 2019, 30, 1390-1399.	1.1	16
15	Threshold hydrophobicity for inhibition of salt scale formation on SAM-modified titania nanotube arrays. Applied Surface Science, 2019, 473, 282-290.	3.1	15
16	Ultraviolet sensing using a TiO ₂ nanotube integrated high resolution planar microwave resonator device. Nanoscale, 2018, 10, 4882-4889.	2.8	34
17	Core–shell titanium dioxide–titanium nitride nanotube arrays with near-infrared plasmon resonances. Nanotechnology, 2018, 29, 154006.	1.3	40
18	A review on photocatalytic CO ₂ reduction using perovskite oxide nanomaterials. Nanotechnology, 2018, 29, 052001.	1.3	192

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19	Heterojunctions of mixed phase TiO ₂ nanotubes with Cu, CuPt, and Pt nanoparticles: interfacial band alignment and visible light photoelectrochemical activity. Nanotechnology, 2018, 29, 014002.	1.3	22
20	Resistance of Superhydrophobic Surface-Functionalized TiO2 Nanotubes to Corrosion and Intense Cavitation. Nanomaterials, 2018, 8, 783.	1.9	18
21	Arrays of TiO2 nanorods embedded with fluorine doped carbon nitride quantum dots (CNFQDs) for visible light driven water splitting. Carbon, 2018, 137, 174-187.	5.4	70
22	All-solution processed, scalable superhydrophobic coatings on stainless steel surfaces based on functionalized discrete titania nanotubes. Chemical Engineering Journal, 2018, 351, 482-489.	6.6	24
23	Halide perovskite solar cells using monocrystalline TiO ₂ nanorod arrays as electron transport layers: impact of nanorod morphology. Nanotechnology, 2017, 28, 274001.	1.3	67
24	Radial Heterojunction Solar Cell Consisting of n-Type Rutile Nanowire Arrays Infiltrated by p-Type CdTe. Journal of Nanoscience and Nanotechnology, 2017, 17, 5119-5123.	0.9	4
25	Reduced Ensemble Plasmon Line Widths and Enhanced Two-Photon Luminescence in Anodically Formed High Surface Area Au–TiO ₂ 3D Nanocomposites. ACS Applied Materials & Interfaces, 2017, 9, 740-749.	4.0	23
26	Response to Alternating Electric Fields of Tubulin Dimers and Microtubule Ensembles in Electrolytic Solutions. Scientific Reports, 2017, 7, 9594.	1.6	28
27	Optical anisotropy in vertically oriented TiO ₂ nanotube arrays. Nanotechnology, 2017, 28, 374001.	1.3	14
28	Effect of phosphonate monolayer adsorbate on the microwave photoresponse of TiO ₂ nanotube membranes mounted on a planar double ring resonator. Nanotechnology, 2016, 27, 375201.	1.3	37
29	Enhanced CH4 yield by photocatalytic CO2 reduction using TiO2 nanotube arrays grafted with Au, Ru, and ZnPd nanoparticles. Nano Research, 2016, 9, 3478-3493.	5.8	126
30	Rutile phase n- and p-type anodic titania nanotube arrays with square-shaped pore morphologies. Chemical Communications, 2015, 51, 7816-7819.	2.2	37
31	Effect of sol stabilizer on the structure and electronic properties of solution-processed ZnO thin films. RSC Advances, 2015, 5, 87007-87018.	1.7	35
32	Electron Transport, Trapping and Recombination in Anodic TiO ₂ Nanotube Arrays. Current Nanoscience, 2015, 11, 593-614.	0.7	38
33	Anodic Cu ₂ S and CuS nanorod and nanowall arrays: preparation, properties and application in CO ₂ photoreduction. Nanoscale, 2014, 6, 14305-14318.	2.8	132
34	Biodiagnostics Using Oriented and Aligned Inorganic Semiconductor Nanotubes and Nanowires. Journal of Nanoscience and Nanotechnology, 2013, 13, 4473-4496.	0.9	12
35	Transparent Anodic TiO ₂ Nanotube Arrays on Plastic Substrates for Disposable Biosensors and Flexible Electronics. Journal of Nanoscience and Nanotechnology, 2013, 13, 2885-2891. 	0.9	42
36	Ultrahigh sensitivity assays for human cardiac troponin I using TiO2 nanotube arrays. Lab on A Chip, 2012, 12, 821.	3.1	70

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37	Formation and stability of anatase phase of phosphate incorporated and carbon doped titania nanotubes. Materials Research Bulletin, 2009, 44, 398-402.	2.7	15