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Size-dependent light-scattering effects of nanoporous TiO₂ spheres in dye-sensitized solar cells

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#	Paper	IF	Citations
193	Which is a superior material for scattering layer in dye-sensitized solar cells—electrospun rice grain- or nanofiber-shaped TiO ₂ ?. <i>Journal of Materials Chemistry</i> , 2011 , 21, 12210		59
192	A facile way to fabricate highly efficient photoelectrodes with chemical sintered scattering layers for dye-sensitized solar cells. <i>Journal of Materials Chemistry</i> , 2011 , 21, 15552		28
191	Fabrication and characterization of plastic-based flexible dye-sensitized solar cells consisting of crystalline mesoporous titania nanoparticles as photoanodes. <i>Journal of Materials Chemistry</i> , 2011 , 21, 17511		47
190	Efficient Light Scattering from One-Pot Solvothermally Derived TiO ₂ Nanospindles. 2011 , 50, 9003-9008		34
189	Controllable synthesis of mesoporous F ₁₂ TiO ₂ spheres for effective photocatalysis. <i>Journal of Materials Chemistry</i> , 2011 , 21, 11430		111
188	Enhanced performance of dye-sensitized solar cells via plasmonic sandwiched structure. <i>Applied Physics Letters</i> , 2011 , 99, 043306	3.4	24
187	One-step synthesis of titanium oxide with trilayer structure for dye-sensitized solar cells. <i>Applied Physics Letters</i> , 2011 , 98, 133113	3.4	19
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185	Influence of NH ₃ /H ₂ O additive on the photovoltaic performance of dye-sensitized solar cells with chemical sintered scattering layers. <i>Electrochimica Acta</i> , 2011 , 56, 9926-9930	6.7	5
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180	Hydrothermal Synthesis of TiO ₂ Porous Hollow Nanospheres for Coating on the Photoelectrode of Dye-Sensitized Solar Cells. <i>Japanese Journal of Applied Physics</i> , 2012 , 51, 02BP11	1.4	2
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176	Synthesis of monodisperse mesoporous TiO ₂ spheres with tunable sizes between 0.6 and 3.1 μ m and effects of reaction temperature, Ti source purity, and type of alkylamine on size and monodispersity. <i>Chemical Communications</i> , 2012 , 48, 4250-2	5.8	20
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40	Multi-functional 3D N-doped TiO ₂ microspheres used as scattering layers for dye-sensitized solar cells. <i>Frontiers of Chemical Science and Engineering</i> , 2017 , 11, 395-404	4.5	7
39	Size-Dependent Multiple-Scattering Effects of Mesoporous TiO ₂ Beads Distinguished by Optical Coherence Tomography. <i>IEEE Photonics Journal</i> , 2017 , 9, 1-10	1.8	1
38	Visible-light-mediated antifungal bamboo based on Fe-doped TiO ₂ thin films. <i>RSC Advances</i> , 2017 , 7, 55131-55140	3.7	18
37	Growth of TiO ₂ nanoflowers photoanode for dye-sensitized solar cells. <i>Journal of Alloys and Compounds</i> , 2017 , 692, 1004-1009	5.7	13
36	Efficiency enhancement of DSSC by alternating TiO ₂ active layer. <i>Optik</i> , 2018 , 160, 277-282	2.5	7
35	Ellipsoidal TiO ₂ mesocrystals as bi-functional photoanode materials for dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2018 , 261, 365-374	6.7	10
34	Polymer electrolyte integrated dye sensitized solar cells endow enhanced stability: Photoanode thickness and light intensity on cell performance. <i>Solar Energy</i> , 2018 , 169, 159-166	6.8	5
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27	Function of Photoanode: Charge Transfer Dynamics, Challenges, and Alternative Strategies. 2019 , 17-33		
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25	Superior light harnessing and charge injection kinetics utilizing mirror-like nano cuboidal ceria coupled with reduced graphene oxide in zinc oxide nanoparticle based photovoltaics. <i>Solar Energy</i> , 2019 , 185, 89-99	6.8	3
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23	. 2019 ,		2
22	Monodispersed SnO ₂ microspheres aggregated by tunable building units as effective photoelectrodes in solar cells. <i>Applied Surface Science</i> , 2019 , 463, 679-685	6.7	14
21	Nanoporous TiO ₂ spheres with tailored textural properties: Controllable synthesis, formation mechanism, and photochemical applications. <i>Progress in Materials Science</i> , 2020 , 109, 100620	42.2	61
20	Photovoltaic performance and electrochemical impedance spectroscopy analysis of CdS/CdSe-sensitized solar cell based on surfactant-modified ZnS treatment. <i>Applied Physics A: Materials Science and Processing</i> , 2020 , 126, 1	2.6	2
19	Increase the Quantum Dots Sensitized TiO ₂ Solar Cell Efficiency Adding n%Yb ³⁺ +m%Er ³⁺ Doped NaYF ₄ : Submicrometer-Sized Rods. <i>IEEE Journal of Photovoltaics</i> , 2020 , 10, 785-794	3.7	2
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17	Mesoporous WO ₃ /TiO ₂ spheres with tailored surface properties for concurrent solar photocatalysis and membrane filtration. <i>Chemosphere</i> , 2021 , 263, 128344	8.4	24
16	Tunable synthesis of mesoporous titania with different morphologies for dye-sensitized solar cells. <i>Advanced Powder Technology</i> , 2021 , 32, 99-105	4.6	1
15	Room-temperature preparation of TiO ₂ /graphene composite photoanodes for efficient dye-sensitized solar cells. <i>Journal of Colloid and Interface Science</i> , 2021 , 586, 326-334	9.3	8

14	Plasmonic silver sandwich structured photoanode and reflective counter electrode enhancing power conversion efficiency of dye-sensitized solar cell. <i>Solar Energy</i> , 2021 , 215, 403-409	6.8	12
13	Study the Effect of TiO ₂ Nanoparticles in Multilayers of Photoelectrode Prepared by Ball Milling Technique on The Performance of Dye Sensitized Solar Cells (DSSCs). <i>Journal of Physics: Conference Series</i> , 2021 , 1818, 012069	0.3	0
12	Enhanced electron harvesting in next generation solar cells by employing TiO ₂ nanoparticles prepared through hydrolysis catalytic process. <i>Ceramics International</i> , 2021 ,	5.1	1
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10	Controllable synthesis and self-template phase transition of hydrous TiO colloidal spheres for photo/electrochemical applications. <i>Advances in Colloid and Interface Science</i> , 2021 , 295, 102493	14.3	4
9	Preparation of Ce-doped ZnO hollow spheres and their application as a light scattering layer in dye-sensitized solar cells. <i>Journal of Materials Science: Materials in Electronics</i> , 2021 , 32, 3782-3796	2.1	0
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4	Mechanoresponsive scatterers for high-contrast optical modulation. <i>Nanophotonics</i> , 2021 ,	6.3	3
3	Highly stable and water dispersible polymer-coated CsPbBr ₃ nanocrystals for Cu-ion detection in water.		1
2	High-yield TiO ₂ submicron sphere/nanoparticle-blended scattering layer for efficient and scalable dye-sensitized solar cells.		0
1	Electro- and Photoinduced Interfacial Charge Transfers in Nanocrystalline Mesoporous TiO ₂ and TiO ₂ /Iron Porphyrin Sensitized Films under CO ₂ Reduction Catalysis.		0