Maziar Marandi

List of Publications by Year in Descending Order

41 papers	629 citations	15 h-index	23 g-index
43 ext. papers	697 ext. citations	4.2 avg, IF	4.36 L-index

#	Paper	IF	Citations
41	Cd+2-sensing property of highly luminescent CdTe nanocrystals in the presence of Na2S2O3. *Journal of Nanoparticle Research*, **2021**, 23, 1	2.3	
40	Application of TiO2 hollow spheres and ZnS/SiO2 double-passivaiting layers in the photoanode of the CdS/CdSe QDs sensitized solar cells for the efficiency enhancement. *Solar Energy*, **2021**, 216, 48-60	6.8	2
39	Fabrication of quantum dot-sensitized solar cells with multilayer TiO2/PbS(X)/CdS/CdSe/ZnS/SiO2 photoanode and optimization of the PbS nanocrystalline layer. *Journal of Materials Science: Materials in Electronics*, **2021**, 32, 10123-10139	2.1	0
38	Effects of PbS quantum dots layer and different light scattering films on the photovoltaic performance of double passivated PbS, CdS and CdSe quantum dots sensitized solar cells. *Solar Energy*, **2021**, 221, 418-432	6.8	5
37	The constructive role of ZnSe passivating layer on the photovoltaic performance of the fast-fabricated CdS/CdSe quantum dot sensitized solar cells. *Optical Materials*, **2020**, 105, 109918	3.3	7
36	Microwave activated synthesis of Ag2S and Ag2S@ZnS nanocrystals and their application in well-performing quantum dot sensitized solar cells. *Solar Energy*, **2020**, 202, 155-163	6.8	12
35	Co-application of TiO2 nanoparticles and randomly directed TiO2 nanorods in the photoelectrode of the CdS:Mn quantum dots sensitized solar cells and optimization of the doping for the efficiency improvement. *Optical Materials*, **2019**, 94, 224-230	3.3	8
34	Aqueous synthesis of the CdTe NCs and influence of size on photovoltaic performance of the CdS/CdTe co-sensitized solar cells. *Journal of Alloys and Compounds*, **2019**, 800, 140-149	5.7	6
33	Aqueous synthesis of CdTe-CdS core shell nanocrystals and effect of shell-formation process on the efficiency of quantum dot sensitized solar cells. *Solar Energy*, **2019**, 188, 35-44	6.8	13
32	A new co-solvent assisted CuSCN deposition approach for better coverage and improvement of the energy conversion efficiency of corresponding mixed halides perovskite solar cells. *Journal of Materials Science: Materials in Electronics*, **2019**, 30, 11576-11587	2.1	5
31	Optimization of CuInGaS Nanoparticles and Their Application in the Hole-Transporting Layer of Highly Efficient and Stable Mixed-Halide Perovskite Solar Cells. *ACS Applied Materials & Interfaces*, **2019**, 11, 30838-30845	9.5	23
30	Application of combinative TiO2nanorods and nanoparticles layer as the electron transport film in highly efficient mixed halides perovskite solar cells. *Electrochimica Acta*, **2019**, 297, 1071-1078	6.7	9
29	Hydrothermal growth of a composite TiO2 hollow spheres/TiO2 nanorods powder and its application in high performance dye-sensitized solar cells. *Journal of Electroanalytical Chemistry*, **2019**, 833, 143-150	4.1	12
28	Optimization of the doping process and light scattering in CdS:Mn quantum dots sensitized solar cells for the efficiency enhancement. *Journal of Materials Science: Materials in Electronics*, **2019**, 30, 3820-3832	2.1	3
27	Investigating the different conditions on solution processed MoOx thin film in long lifetime fluorescent polymer light emitting diodes. *Materials Chemistry and Physics*, **2018**, 204, 262-268	4.4	4
26	Facile fabrication of hyper-branched TiO2 hollow spheres for high efficiency dye-sensitized solar cells. *Solar Energy*, **2018**, 174, 888-896	6.8	4
25	Synthesis of highly luminescent CdTe/CdS core-shell nanocrystals by optimization of the core and shell growth parameters. *Optical Materials*, **2017**, 69, 358-366	3.3	21

24	Fabrication of submicron/micron size cavities included TiO 2 photoelectrodes and optimization of light scattering to improve the photovoltaic performance of CdS quantum dot sensitized solar cells. *Journal of Electroanalytical Chemistry*, **2017**, 799, 167-174	4.1	7
23	Synthesis of randomly directed inclined TiO 2 nanorods on the nanocrystalline TiO 2 layers and their optimized application in dye sensitized solar cells. *Journal of Alloys and Compounds*, **2017**, 711, 603-610	5.7	14
22	Fabrication of dye sensitized solar cells with improved multi-layer photonodes of hydrothermally grown TiO2 nanocrystals in different autoclaving pHs. *Journal of Materials Science: Materials in Electronics*, **2017**, 28, 9548-9558	2.1	2
21	Highly sensitive selective sensing of nickel ions using repeatable fluorescence quenching-emerging of the CdTe quantum dots. *Materials Research Bulletin*, **2017**, 95, 532-538	5.1	21
20	Optimization of the Photoanode of CdS Quantum Dot-Sensitized Solar Cells Using Light-Scattering TiO2 Hollow Spheres. *Journal of Electronic Materials*, **2017**, 46, 6769-6783	1.9	19
19	Highly Formed Luminescent Oxygen Trap States in Thermochemically Prepared CdS Nanocrystals and Improvement of the Luminescence Property. *Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry*, **2016**, 46, 327-333		1
18	Fabrication of dye-sensitized solar cells with multilayer photoanodes of hydrothermally grown TiO2 nanocrystals and P25 TiO2 nanoparticles. *Bulletin of Materials Science*, **2016**, 39, 1403-1410	1.7	3
17	Hydrothermal synthesis of TiO2 nanocrystals in different basic pHs and their applications in dye sensitized solar cells. *Physica E: Low-Dimensional Systems and Nanostructures*, **2015**, 70, 113-120	3	12
16	Facile modified cyclic electrophoretic deposition of hydrothermally prepared TiO2 nanocrystals and their application in dye sensitized solar cells. *Journal of Alloys and Compounds*, **2015**, 646, 264-270	5.7	6
15	High-efficiency CdTe/CdS core/shell nanocrystals in water enabled by photo-induced colloidal hetero-epitaxy of CdS shelling at room temperature. *Nano Research*, **2015**, 8, 2317-2328	10	31
14	Influence of cathode roughness on the performance of F8BT based organic–inorganic light emitting diodes. *Organic Electronics*, **2015**, 16, 87-94	3.5	7
13	Fabrication of dye sensitized solar cells with different photoanode compositions using hydrothermally grown and P25 TiO2nanocrystals. *EPJ Applied Physics*, **2015**, 69, 20401	1.1	8
12	Super-hydrophilic characteristic of thermochemically prepared CdS nanocrystals. *Physica E: Low-Dimensional Systems and Nanostructures*, **2014**, 58, 146-152	3	3
11	Synthesis of TiO2 hollow spheres using titanium tetraisopropoxide: fabrication of high efficiency dye sensitized solar cells with photoanodes of different nanocrystalline TiO2 sub-layers. *RSC Advances*, **2014**, 4, 58064-58076	3.7	20
10	Facile synthesis of gradient alloyed ZnxCd1−xS nanocrystals using a microwave-assisted method. *Journal of Alloys and Compounds*, **2014**, 586, 380-384	5.7	20
9	Effect of hydrazine hydrate on the luminescence properties of MPA capped CdTe nanocrystals in hot injection method. *Journal of Luminescence*, **2014**, 156, 235-239	3.8	13
8	Near-white emitting QD-LED based on hydrophilic CdS nanocrystals. *Journal of Luminescence*, **2012**, 132, 467-473	3.8	81
7	Synthesis of CdS nanocrystals by a microwave activated method and investigation of the photoluminescence and electroluminescence properties. *Applied Surface Science*, **2011**, 257, 9796-9801	6.7	36

6	Fast two-step microwave-activated synthesis of Mn doped ZnS nanocrystals: Comparison of the luminescence and doping process with thermochemical approach. *Journal of Luminescence*, **2011**, 131, 721-726	3.8	20
5	Thermochemical growth of Mn-doped CdS nanoparticles and study of luminescence evolution. *Nanotechnology*, **2008**, 19, 225705	3.4	20
4	Self-assembled one-pot synthesis of red luminescent CdS:Mn/Mn(OH)2 nanoparticles. *Journal of Luminescence*, **2008**, 128, 1980-1984	3.8	15
3	Fine tuning of the size of CdS nanoparticles synthesized by a photochemical method. *Nanotechnology*, **2006**, 17, 1230-1235	3.4	24
2	Thermal control of the size and crystalline phase of CdS nanoparticles. *Nanotechnology*, **2006**, 17, 3812-3816	3.4	60
1	A photochemical method for controlling the size of CdS nanoparticles. *Nanotechnology*, **2005**, 16, 334-8	3.4	51