

Mohammad Reza Mohammadi

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1436724/publications.pdf>

Version: 2024-02-01

70
papers

1,616
citations

257450

24
h-index

330143

37
g-index

70
all docs

70
docs citations

70
times ranked

2407
citing authors

#	ARTICLE	IF	CITATIONS
1	In vitro study of hydroxyapatite/polycaprolactone (HA/PCL) nanocomposite synthesized by an in situ sol-gel process. <i>Materials Science and Engineering C</i> , 2013, 33, 390-396.	7.3	89
2	Synthesis of high surface area nanocrystalline anatase-TiO ₂ powders derived from particulate sol-gel route by tailoring processing parameters. <i>Journal of Sol-Gel Science and Technology</i> , 2006, 40, 15-23.	2.4	72
3	Study plasma electrolytic oxidation process and characterization of coatings formed in an alumina nanoparticle suspension. <i>Vacuum</i> , 2014, 108, 12-19.	3.5	63
4	Double-layer dye-sensitized solar cells based on Zn-doped TiO ₂ transparent and light scattering layers: Improving electron injection and light scattering effect. <i>Solar Energy</i> , 2014, 103, 210-222.	6.1	61
5	Effects of alumina nanoparticles concentration on microstructure and corrosion behavior of coatings formed on titanium substrate via PEO process. <i>Ceramics International</i> , 2016, 42, 8789-8797.	4.8	60
6	Dye-sensitized solar cells based on a single layer deposition of TiO ₂ from a new formulation paste and their photovoltaic performance. <i>Solar Energy</i> , 2012, 86, 2654-2664.	6.1	54
7	Impact of preparation method of TiO ₂ -RGO nanocomposite photoanodes on the performance of dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2016, 219, 38-48.	5.2	53
8	Introduction of Graphene Oxide as Buffer Layer in Perovskite Solar Cells and the Promotion of Soluble n-Butyl-substituted Copper Phthalocyanine as Efficient Hole Transporting Material. <i>Electrochimica Acta</i> , 2017, 233, 36-43.	5.2	52
9	Improving the stability of inverted perovskite solar cells under ambient conditions with graphene-based inorganic charge transporting layers. <i>Carbon</i> , 2018, 126, 208-214.	10.3	51
10	Synthesis and characterisation of nanosized TiO ₂ -ZrO ₂ binary system prepared by an aqueous sol-gel process: Physical and sensing properties. <i>Sensors and Actuators B: Chemical</i> , 2011, 155, 568-576.	7.8	48
11	One-dimensional cadmium sulfide (CdS) nanostructures by the solvothermal process: Controlling crystal structure and morphology aided by different solvents. <i>Materials Letters</i> , 2011, 65, 1291-1294.	2.6	45
12	Soluble tetratriphenylamine Zn phthalocyanine as Hole Transporting Material for Perovskite Solar Cells. <i>Electrochimica Acta</i> , 2016, 222, 875-880.	5.2	41
13	Carbon based perovskite solar cells constructed by screen-printed components. <i>Electrochimica Acta</i> , 2018, 276, 261-267.	5.2	41
14	Inverted perovskite solar cells based on lithium-functionalized graphene oxide as an electron-transporting layer. <i>Chemical Communications</i> , 2017, 53, 1630-1633.	4.1	40
15	Improvement of the photovoltaic parameters of perovskite solar cells using a reduced-graphene-oxide-modified titania layer and soluble copper phthalocyanine as a hole transporter. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 2388-2395.	2.8	40
16	In-situ solvothermal processing of polycaprolactone/hydroxyapatite nanocomposites with enhanced mechanical and biological performance for bone tissue engineering. <i>Bioactive Materials</i> , 2017, 2, 146-155.	15.6	36
17	Low temperature nanostructured lithium titanates: controlling the phase composition, crystal structure and surface area. <i>Journal of Sol-Gel Science and Technology</i> , 2010, 55, 19-35.	2.4	34
18	Sol-gel derived nanocrystalline and mesoporous barium strontium titanate prepared at room temperature. <i>Particuology</i> , 2011, 9, 235-242.	3.6	33

#	ARTICLE	IF	CITATIONS
19	TiO ₂ /BaTiO ₃ nanocomposite for electron capture in dye-sensitized solar cells. <i>Journal of the American Ceramic Society</i> , 2017, 100, 2144-2153.	3.8	33
20	Development of nanostructured porous TiO ₂ thick film with uniform spherical particles by a new polymeric gel process for dye-sensitized solar cell applications. <i>Electrochimica Acta</i> , 2013, 89, 90-97.	5.2	31
21	Low-temperature perovskite-type cadmium titanate thin films derived from a simple particulate sol-gel process. <i>Acta Materialia</i> , 2009, 57, 1049-1059.	7.9	30
22	Long-term stability of dye-sensitized solar cells using a facile gel polymer electrolyte. <i>New Journal of Chemistry</i> , 2018, 42, 13256-13262.	2.8	28
23	Controlling electron injection and electron transport of dye-sensitized solar cells aided by incorporating CNTs into a Cr-doped TiO ₂ photoanode. <i>Electrochimica Acta</i> , 2013, 111, 921-929.	5.2	27
24	Controlling morphology and structure of nanocrystalline cadmium sulfide (CdS) by tailoring solvothermal processing parameters. <i>Journal of Nanoparticle Research</i> , 2011, 13, 3011-3018.	1.9	25
25	Plasmonic Effects of Infiltrated Silver Nanoparticles Inside TiO ₂ Film: Enhanced Photovoltaic Performance in DSSCs. <i>Journal of the American Ceramic Society</i> , 2016, 99, 167-173.	3.8	24
26	Improved photon to current conversion in nanostructured TiO ₂ dye-sensitized solar cells by incorporating cubic BaTiO ₃ particles delimiting incident. <i>Solar Energy</i> , 2016, 132, 1-14.	6.1	24
27	Semiconductor TiO ₂ /Al ₂ O ₃ thin film gas sensors derived from aqueous particulate sol-gel process. <i>Materials Science in Semiconductor Processing</i> , 2014, 27, 711-718.	4.0	23
28	Design of TiO ₂ dye-sensitized solar cell photoanode electrodes with different microstructures and arrangement modes of the layers. <i>Journal of Sol-Gel Science and Technology</i> , 2015, 76, 666-678.	2.4	23
29	The improvement of electron transport rate of TiO ₂ dye-sensitized solar cells using mixed nanostructures with different phase compositions. <i>Ceramics International</i> , 2013, 39, 7343-7353.	4.8	22
30	Template-based growth of titanium dioxide nanorods by a particulate sol-electrophoretic deposition process. <i>Particuology</i> , 2011, 9, 161-169.	3.6	21
31	Improved efficiency of dye-sensitized solar cells by design of a proper double layer photoanode electrodes composed of Cr-doped TiO ₂ transparent and light scattering layers. <i>Journal of Sol-Gel Science and Technology</i> , 2013, 67, 77-87.	2.4	21
32	The beneficial effects of mixing spiro-OMeTAD with n-butyl-substituted copper phthalocyanine for perovskite solar cells. <i>Electrochimica Acta</i> , 2016, 222, 1417-1423.	5.2	21
33	Construction of Perovskite Solar Cells Using Inorganic Hole-Extracting Components. <i>ACS Omega</i> , 2018, 3, 46-54.	3.5	21
34	Low temperature nanocrystalline TiO ₂ /Fe ₂ O ₃ mixed oxide by a particulate sol-gel route: Physical and sensing characteristics. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2012, 46, 43-51.	2.7	20
35	Preparation and characterisation of nanostructural TiO ₂ /Er ₂ O ₃ binary oxides with high surface area derived from particulate sol-gel route. <i>Materials Science and Technology</i> , 2006, 22, 965-974.	1.6	17
36	Preparation and characterisation of nanostructural TiO ₂ /Ga ₂ O ₃ binary oxides with high surface area derived from particulate sol-gel route. <i>Journal of Materials Science</i> , 2007, 42, 4976-4986.	3.7	17

#	ARTICLE	IF	CITATIONS
37	Synthesis of highly pure nanocrystalline and mesoporous CaTiO ₃ by a particulate sol-gel route at the low temperature. <i>Journal of Sol-Gel Science and Technology</i> , 2013, 68, 324-333.	2.4	16
38	A facile low temperature route to deposit a TiO ₂ scattering layer for efficient dye-sensitized solar cells. <i>RSC Advances</i> , 2016, 6, 70895-70901.	3.6	16
39	Performance of CoTiO ₃ as an oxide perovskite material for the light scattering layer of dye-sensitized solar cells. <i>New Journal of Chemistry</i> , 2019, 43, 3760-3768.	2.8	16
40	Synthesis and characterisation of nanostructured neodymium titanium oxides by sol-gel process: Controlling the phase composition, crystal structure and grain size. <i>Materials Chemistry and Physics</i> , 2010, 122, 512-523.	4.0	14
41	Improved electron transportation of dye-sensitized solar cells using uniform mixed CNTs-TiO ₂ photoanode prepared by a new polymeric gel process. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	1.9	14
42	Double-Layer TiO ₂ Electrodes with Controlled Phase Composition and Morphology for Efficient Light Management in Dye-Sensitized Solar Cells. <i>Journal of Cluster Science</i> , 2014, 25, 1029-1045.	3.3	14
43	On the assessment of incorporation of CNT-TiO ₂ core-shell structures into nanoparticle TiO ₂ photoanodes in dye-sensitized solar cells. <i>Photochemical and Photobiological Sciences</i> , 2019, 18, 1840-1850.	2.9	14
44	Development of hydroxyapatite nanorods-polycaprolactone composites and scaffolds derived from a novel in-situ sol-gel process. <i>Tissue Engineering and Regenerative Medicine</i> , 2012, 9, 295-303.	3.7	12
45	Efficient dye-sensitized solar cells based on carbon-doped TiO ₂ hollow spheres and nanoparticles. <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 8863-8876.	2.2	12
46	Impact of chromium doping on physical, optical, electronic and photovoltaic properties of nanoparticle TiO ₂ photoanodes in dye-sensitized solar cells. <i>New Journal of Chemistry</i> , 2017, 41, 14516-14527.	2.8	12
47	Dependence of photovoltaic performance of solvothermally prepared CdS/CdTe solar cells on morphology and thickness of window and absorber layers. <i>Journal of Materials Science: Materials in Electronics</i> , 2013, 24, 3564-3574.	2.2	11
48	Impact of Morphology and Nitrogen and Carbon Codoping on Photocatalytic Activity of TiO ₂ as Environmental Catalysts. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 12205-12212.	3.7	11
49	Efficient dye-sensitized solar cells based on CNT-derived TiO ₂ nanotubes and Nb-doped TiO ₂ nanoparticles. <i>RSC Advances</i> , 2016, 6, 101737-101744.	3.6	10
50	Synthesis and crystallization of lead-zirconium-titanate (PZT) nanotubes at the low temperature using carbon nanotubes (CNTs) as sacrificial templates. <i>Advanced Powder Technology</i> , 2012, 23, 647-654.	4.1	9
51	Fuzzy local binary patterns: A comparison between Min-Max and Dot-Sum operators in the application of facial expression recognition. , 2013, , .		9
52	Enhanced electron collection efficiency of nanostructured dye-sensitized solar cells by incorporating TiO ₂ cubes. <i>Journal of the American Ceramic Society</i> , 2018, 101, 293-306.	3.8	9
53	Water-based sol-gel nanocrystalline barium titanate: controlling the crystal structure and phase transformation by Ba:Ti atomic ratio. <i>Journal of Materials Science</i> , 2009, 44, 4959-4968.	3.7	7
54	Synthesis of Nanostructured and Nanoporous TiO ₂ -AgO Mixed Oxide Derived from a Particulate Sol-Gel Route: Physical and Sensing Characteristics. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2011, 42, 2481-2492.	2.2	7

#	ARTICLE	IF	CITATIONS
55	Enhanced efficiency of over 10% in dye-sensitized solar cells through C and N single- and co-doped TiO ₂ single-layer electrodes. <i>New Journal of Chemistry</i> , 2017, 41, 9453-9460.	2.8	7
56	The role of a vapor-assisted solution process on tailoring the chemical composition and morphology of mixed-halide perovskite solar cells. <i>CrystEngComm</i> , 2018, 20, 4428-4435.	2.6	7
57	Study of Hole-Transporter-Free Perovskite Solar Cells based on Fully Printable Components. <i>Micromachines</i> , 2019, 10, 266.	2.9	7
58	Improved Efficiency of Dye-Sensitized Solar Cells Based on a Single Layer Deposition of Skin-Like TiO ₂ Nanotubes. <i>Journal of the American Ceramic Society</i> , 2014, 97, 2873-2879.	3.8	5
59	Development of an aqueous TiO ₂ paste in terms of morphological manipulation of nanostructured photoanode electrode of dye-sensitized solar cells. <i>Journal of Sol-Gel Science and Technology</i> , 2015, 75, 447-459.	2.4	5
60	Titania Nanotubes Decorated with Zn-Doped Titania Nanoparticles as the Photoanode Electrode of Dye-Sensitized Solar Cells. <i>Energy Technology</i> , 2017, 5, 1571-1578.	3.8	5
61	Experiments design for hardness optimization of the Ni-Cr alloy electrodeposited by pulse plating. <i>Acta Metallurgica Sinica (English Letters)</i> , 2013, 26, 558-564.	2.9	4
62	Solvent engineering based on triethylenetetramine (TETA) for perovskite solar cells processed in ambient-air. <i>Photochemical and Photobiological Sciences</i> , 2019, 18, 1228-1234.	2.9	4
63	Preparation and characterization of nanocrystalline and mesoporous strontium titanate thin films at room temperature. <i>Journal of Coatings Technology Research</i> , 2011, 8, 585-593.	2.5	3
64	Tailoring of morphology and crystal structure of nanomaterials in MgO-TiO ₂ system by controlling Mg:Ti molar ratio. <i>Journal of Sol-Gel Science and Technology</i> , 2012, 64, 135-144.	2.4	3
65	Tailoring of morphology and crystal structure of CdSe nanostructures by controlling the ratio of triethylenetetraamine and water in their mixed solution. <i>Applied Physics A: Materials Science and Processing</i> , 2012, 107, 497-502.	2.3	3
66	Sensor Performance of Nanostructured TiO ₂ -SnO ₂ Films Prepared by an Aqueous Sol-Gel Process. <i>Journal of Cluster Science</i> , 2014, 25, 905-923.	3.3	3
67	Development of block copolymer-templated crack-free mesoporous anatase-TiO ₂ film: tailoring sol-gel and EISA processing parameters and photovoltaic characteristics. <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 1543-1553.	2.2	3
68	Low-cost air-stable perovskite solar cells by incorporating inorganic materials. <i>New Journal of Chemistry</i> , 2021, 45, 788-795.	2.8	3
69	Concavity degree: A new feature for chromosome centromere localization. , 2012, , .		0
70	A single layer deposition of Li-doped mesoporous TiO ₂ beads for low-cost and efficient dye-sensitized solar cells. <i>New Journal of Chemistry</i> , 2021, 45, 2470-2477.	2.8	0