Hashem Shahroosvand

List of Publications by Year
in descending order

53 papers	1,056 citations	471509 17 h-index	434195 31 g-index
53 all docs	53 docs citations	53 times ranked	1377 citing authors

#	Article	IF	Citations
1	Influence of Ancillary Ligands in Dye-Sensitized Solar Cells. Chemical Reviews, 2016, 116, 9485-9564.	47.7	225
2	Polypyridyl ligands as a versatile platform for solid-state light-emitting devices. Chemical Society Reviews, 2019, 48, 5033-5139.	38.1	93
3	Solution-based synthetic strategies for Eu doped ZnO nanoparticle with enhanced red photoluminescence. Journal of Luminescence, 2013, 144, 223-229.	3.1	53
4	The evolution of triphenylamine hole transport materials for efficient perovskite solar cells. Chemical Society Reviews, 2022, 51, 5974-6064.	38.1	50
5	Ruthenium phenanthroimidazole complexes for near infrared light-emitting electrochemical cells. Journal of Materials Chemistry C, 2016, 4, 9674-9679.	5.5	34
6	Molecularly Engineered Nearâ€Infrared Lightâ€Emitting Electrochemical Cells. Advanced Functional Materials, 2020, 30, 1908103.	14.9	33
7	Low-voltage, high-brightness and deep-red light-emitting electrochemical cells (LECs) based on new ruthenium(<scp>ii</scp>) phenanthroimidazole complexes. Dalton Transactions, 2016, 45, 7195-7199.	3.3	29
8	Molecularly engineered hole-transport material for low-cost perovskite solar cells. Chemical Science, 2020, 11, 2429-2439.	7.4	29
9	Saddle-shaped porphyrins for dye-sensitized solar cells: new insight into the relationship between nonplanarity and photovoltaic properties. Physical Chemistry Chemical Physics, 2015, 17, 6347-6358.	2.8	28
10	Unusual electroluminescence in ruthenium(ii) tetrazole complexes. RSC Advances, 2013, 3, 6323.	3.6	26
11	Green, near-infrared electroluminescence of novel yttrium tetrazole complexes. Journal of Materials Chemistry C, 2013, 1, 1337-1344.	5.5	25
12	Efficient near infrared light emitting electrochemical cell (NIR-LEEC) based on new binuclear ruthenium phenanthroimidazole exhibiting desired charge carrier dynamics. Scientific Reports, 2017, 7, 15739.	3.3	25
13	Going from green to red electroluminescence through ancillary ligand substitution in ruthenium(ii) tetrazole benzoic acid emitters. Journal of Materials Chemistry C, 2013, 1, 6970.	5.5	21
14	Ruthenium(ii) multi carboxylic acid complexes: chemistry and application in dye sensitized solar cells. Dalton Transactions, 2014, 43, 5158.	3.3	20
15	Red electroluminescence of ruthenium sensitizer functionalized by sulfonate anchoring groups. Dalton Transactions, 2014, 43, 9202-9215.	3.3	20
16	A ruthenium tetrazole complex-based high efficiency near infrared light electrochemical cell. Chemical Communications, 2017, 53, 6211-6214.	4.1	19
17	Synthesis, Study, and Application of Pd(II) Hydrazone Complexes as the Emissive Components of Single-Layer Light-Emitting Electrochemical Cells. Inorganic Chemistry, 2021, 60, 982-994.	4.0	19
18	Ruthenium Tetrazole Based Electroluminescent Device: Key Role of Counter Ions for Light Emission Properties. Journal of Physical Chemistry C, 2016, 120, 24965-24972.	3.1	16

#	Article	IF	Citations
19	A sequential condensation route as a versatile platform for low cost and efficient hole transport materials in perovskite solar cells. Journal of Materials Chemistry A, 2019, 7, 21867-21873.	10.3	16
20	A cost-device efficiency balanced spiro based hole transport material for perovskite solar cells. Journal of Materials Chemistry C, 2020, 8, 6221-6227.	5.5	16
21	Unusual near-white electroluminescence of light emitting diodes based on saddle-shaped porphyrins. Dalton Transactions, 2015, 44, 8364-8368.	3.3	15
22	A near infrared light emitting electrochemical cell with a 2.3â€‰V turn-on voltage. Scientific Reports, 2019, 9, 228.	3.3	15
23	Two in One: A Dinuclear Ru(II) Complex for Deep-Red Light-Emitting Electrochemical Cells and as an Electrochemiluminescence Probe for Organophosphorus Pesticides. Inorganic Chemistry, 2021, 60, 17040-17050.	4.0	15
24	Dye-Sensitized Nanocrystalline ZnO Solar Cells Based on Ruthenium(II) Phendione Complexes. International Journal of Photoenergy, 2011, 2011, 1-10.	2.5	14
25	Key role of ancillary ligands in imparting blue shift in electroluminescence wavelength in ruthenium polypyridyl light-emitting diodes. New Journal of Chemistry, 2014, 38, 5312-5323.	2.8	14
26	Ultrafast interfacial charge transfer from the LUMO+1 in ruthenium(<scp>ii</scp>) polypyridyl quinoxaline-sensitized solar cells. Dalton Transactions, 2018, 47, 561-576.	3.3	12
27	Molecularly engineered ruthenium polypyridyl complexes for using in dye-sensitized solar cell. Inorganic Chemistry Communication, 2020, 112, 107737.	3.9	12
28	A molecularly engineered near-infrared-light-emitting electrochemical cell (NIR-LEC). New Journal of Chemistry, 2020, 44, 1881-1887.	2.8	12
29	Synthesis, characterization and optical properties of novel N donor ligands-chelated zirconium(IV) complexes. Optical Materials, 2012, 35, 79-84.	3.6	11
30	A new class of color-tunable electroluminescent ruthenium(<scp>ii</scp>) phenanthroline emitters. RSC Advances, 2014, 4, 1150-1154.	3.6	11
31	Dyeâ€Sensitized Solar Cell Based on Novel Starâ€Shaped Ruthenium Polypyridyl Sensitizer: New Insight into the Relationship between Molecular Designing and Its Outstanding Charge Carrier Dynamics. ChemistrySelect, 2018, 3, 6821-6829.	1.5	10
32	Redâ€“yellow electroluminescence, yellowâ€“green photoluminescence of novel N, O donor ligandsâ€“chelated zirconium (IV) complexes. Journal of Luminescence, 2013, 135, 339-344.	3.1	9
33	Artificial photosynthesis based on ruthenium(II) tetrazole-dye-sensitized nanocrystalline TiO2 solar cells. Journal of Photochemistry and Photobiology B: Biology, 2015, 152, 4-13.	3.8	9
34	Aqueous dye-sensitized solar cell based on newÂruthenium diphenyl carbazide complexes. International Journal of Hydrogen Energy, 2017, 42, 16421-16427.	7.1	9
35	Understanding the thermal decomposition effects in TOPO capped ZnO nanocrystals. CrystEngComm, 2012, 14, 8199.	2.6	8
36	Enhancement of electroluminescence in zirconium poly carboxylic acid-based light emitting diodes by bathophenanthroline ligand. Physical Chemistry Chemical Physics, 2013, 15, 9899.	2.8	8

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37	Low-Turn-On-Voltage, High-Brightness, and Deep-Red Light-Emitting Electrochemical Cell Based on a New Blend of [Ru(bpy)₃]²⁺ and Znâ€"Diphenylcarbazone. ACS Omega, 2018, 3, 9981-9988.	3.5	8
38	High-Efficiency Deep-Red Light-Emitting Electrochemical Cell Based on a Trinuclear Ruthenium(II)â€"Silver(I) Complex. Inorganic Chemistry, 2021, 60, 11915-11922.	4.0	8
39	New Molecularly Engineered Binuclear Ruthenium (II) Complexes for Highly Efficient Near-Infrared Light-Emitting Electrochemical Cell (NIR-LEC). Dalton Transactions, 2022, , .	3.3	8
40	Toward white electroluminescence by ruthenium quinoxaline light emitting diodes. New Journal of Chemistry, 2015, 39, 3035-3042.	2.8	7
41	Hydrothermal Synthesis of TOPO-Capped ZnO Nanoparticle. Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry, 2013, 43, 29-39.	0.6	6
42	New photosensitizers containing the dipyridoquinoxaline moiety and their use in dye-sensitized solar cells. Journal of Photochemistry and Photobiology B: Biology, 2015, 152, 14-25.	3.8	6
43	Pt(II)â€Based Artificial Nitroreductase: An Efficient and Highly Stable Nanozyme. ChemistrySelect, 2019, 4, 1387-1393.	1.5	5
44	Molecularly engineered electroplex emission for an efficient near-infrared light-emitting electrochemical cell (NIR-LEC). RSC Advances, 2020, 10, 14099-14106.	3.6	5
45	Molecular Engineering of Ionic Transition Metal Complexes and Counterions for Efficient Flexible Green Light-Emitting Electrochemical Cells. Journal of Physical Chemistry C, 2021, 125, 819-829.	3.1	5
46	Synthesis and characterisation of TiO<SUB align=right>2 nanoparticle with polypyridily complexes for using in solar cells. International Journal of Nanomanufacturing, 2010, 5, 352.	0.3	4
47	Influence of a Îâ€Conjugated Bridging Ligand in Lightâ€Emitting Electrochemical Cells (LEECs). ChemistrySelect, 2018, 3, 7226-7230.	1.5	4
48	Separation of Functionalized 5,6-Disubstituted-1,10-Phenanthroline for Dye-Sensitized Solar Cell Applications. Journal of Chemistry, 2013, 2013, 1-8.	1.9	3
49	On how ancillary ligand substitution affects the charge carrier dynamics in dye-sensitized solar cells. RSC Advances, 2018, 8, 19465-19469.	3.6	3
50	Synthesis and Characterization of (Z)-Furan-2-carbaldehyde Thiosemicarbazone at Low Temperature. E-Journal of Chemistry, 2010, 7, S294-S298.	0.5	1
51	Effects of different light irradiations on structure and optical properties of methoxy-substituted tetraphenylporphyrins. Journal of the Iranian Chemical Society, 2014, 11, 1173-1182.	2.2	1
52	Novel Ru(II) Heteroleptic Complexes Anchored to TiO₂ Nanocrystalline: Synthesis, Characterization and Application to Dye-sensitized Solar Cells. Journal of New Materials for Electrochemical Systems, 2013, 16, 47-51.	0.6	1
53	Artificial Photosynthesis Based on 1,10-Phenanthroline Complexes. , 2017, , 389-405.		0