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	New Molecularly Engineered Binuclear Ruthenium (II) Complexes for Highly Efficient Near-Infrared Light-Emitting Electrochemical Cell (NIR-LEC). Dalton Transactions, 2022, , .	3.3	8
2	The evolution of triphenylamine hole transport materials for efficient perovskite solar cells. Chemical Society Reviews, 2022, 51, 5974-6064.	38.1	50
3	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
4	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
5	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
6	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
7	Molecularly engineered ruthenium polypyridyl complexes for using in dye-sensitized solar cell. Inorganic Chemistry Communication, 2020, 112, 107737.	3.9	12
8	A molecularly engineered near-infrared-light-emitting electrochemical cell (NIR-LEC). New Journal of Chemistry, 2020, 44, 1881-1887.	2.8	12
9	Molecularly Engineered Nearâ€Infrared Lightâ€Emitting Electrochemical Cells. Advanced Functional Materials, 2020, 30, 1908103.	14.9	33
10	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
11	Molecularly engineered hole-transport material for low-cost perovskite solar cells. Chemical Science, 2020, 11, 2429-2439.	7.4	29
12	Molecularly engineered electroplex emission for an efficient near-infrared light-emitting electrochemical cell (NIR-LEC). RSC Advances, 2020, 10, 14099-14106.	3.6	5
13	Polypyridyl ligands as a versatile platform for solid-state light-emitting devices. Chemical Society Reviews, 2019, 48, 5033-5139.	38.1	93
14	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
15	A near infrared light emitting electrochemical cell with a 2.3â€‰V turn-on voltage. Scientific Reports, 2019, 9, 228.	3.3	15
16	Pt(II)â€Based Artificial Nitroreductase: An Efficient and Highly Stable Nanozyme. ChemistrySelect, 2019, 4, 1387-1393.	1.5	5
17	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
18	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

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19	On how ancillary ligand substitution affects the charge carrier dynamics in dye-sensitized solar cells. RSC Advances, 2018, 8, 19465-19469.	3.6	3
20	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
21	Influence of a Ï€â€Conjugated Bridging Ligand in Lightâ€Emitting Electrochemical Cells (LEECs). ChemistrySelect, 2018, 3, 7226-7230.	1.5	4
22	A ruthenium tetrazole complex-based high efficiency near infrared light electrochemical cell. Chemical Communications, 2017, 53, 6211-6214.	4.1	19
23	Aqueous dye-sensitized solar cell based on newÂ ruthenium diphenyl carbazide complexes. International Journal of Hydrogen Energy, 2017, 42, 16421-16427.	7.1	9
24	Artificial Photosynthesis Based on 1,10-Phenanthroline Complexes. , 2017, , 389-405.		0
25	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
26	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
27	Ruthenium phenanthroimidazole complexes for near infrared light-emitting electrochemical cells. Journal of Materials Chemistry C, 2016, 4, 9674-9679.	5.5	34
28	Influence of Ancillary Ligands in Dye-Sensitized Solar Cells. Chemical Reviews, 2016, 116, 9485-9564.	47.7	225
29	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
30	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
31	Toward white electroluminescence by ruthenium quinoxaline light emitting diodes. New Journal of Chemistry, 2015, 39, 3035-3042.	2.8	7
32	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
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	Unusual near-white electroluminescence of light emitting diodes based on saddle-shaped porphyrins. Dalton Transactions, 2015, 44, 8364-8368.	3.3	15
35	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
36	Ruthenium(ii) multi carboxylic acid complexes: chemistry and application in dye sensitized solar cells. Dalton Transactions, 2014, 43, 5158.	3.3	20

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37	A new class of color-tunable electroluminescent ruthenium(<scp>ii</scp>) phenanthroline emitters. RSC Advances, 2014, 4, 1150-1154.	3.6	11
38	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
39	Red electroluminescence of ruthenium sensitizer functionalized by sulfonate anchoring groups. Dalton Transactions, 2014, 43, 9202-9215.	3.3	20
40	Solution-based synthetic strategies for Eu doped ZnO nanoparticle with enhanced red photoluminescence. Journal of Luminescence, 2013, 144, 223-229.	3.1	53
41	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
42	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
43	Green, near-infrared electroluminescence of novel yttrium tetrazole complexes. Journal of Materials Chemistry C, 2013, 1, 1337-1344.	5.5	25
44	Unusual electroluminescence in ruthenium(ii) tetrazole complexes. RSC Advances, 2013, 3, 6323.	3.6	26
45	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
46	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
47	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
48	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
49	Understanding the thermal decomposition effects in TOPO capped ZnO nanocrystals. CrystEngComm, 2012, 14, 8199.	2.6	8
50	Synthesis, characterization and optical properties of novel N donor ligands-chelated zirconium(IV) complexes. Optical Materials, 2012, 35, 79-84.	3.6	11
51	Dye-Sensitized Nanocrystalline ZnO Solar Cells Based on Ruthenium(II) Phendione Complexes. International Journal of Photoenergy, 2011, 2011, 1-10.	2.5	14
52	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
53	Synthesis and Characterization of (Z)-Furan-2-carbaldehyde Thiosemicarbazone at Low Temperature. E-Journal of Chemistry, 2010, 7, S294-S298.	0.5	1