Elizabeth A Gibson

List of Publications by Year
in descending order

71	4,444	159358 30	102304 66
papers	citations	h-index	g-index

73	73	73	4204
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Photoelectrochemical Hydrogen Evolution Using Dye-Sensitised Nickel Oxide. Johnson Matthey Technology Review, 2022, 66, 21-31.	0.5	1
2	Efficient charge separation and transport in a tandem solar cell with photoconducting Se sub-microtubes and AgBiS2 quantum dots. Chemical Engineering Journal, 2022, 437, 135223.	6.6	4
3	Pyridyl anchored indolium dyes for the p-type dye sensitized solar cell. Dyes and Pigments, 2022, 202, 110244.	2.0	7
4	Self-switching photoelectrochromic device with low cost, plasmonic and conducting Ag nanowires decorated V2O5 and PbS quantum dots. Solar Energy Materials and Solar Cells, 2022, 239, 111674.	3.0	10
5	Tuning Photoinduced Electron Transfer in POMâ€Bodipy Hybrids by Controlling the Environment: Experiment and Theory. Angewandte Chemie - International Edition, 2021, 60, 6518-6525.	7.2	19
6	Acid-triggering of light-induced charge-separation in hybrid organic/inorganic molecular photoactive dyads for harnessing solar energy. Inorganic Chemistry Frontiers, 2021, 8, 1610-1618.	3.0	9
7	Tuning Photoinduced Electron Transfer in POMâ€Bodipy Hybrids by Controlling the Environment: Experiment and Theory. Angewandte Chemie, 2021, 133, 6592-6599.	1.6	4
8	A soft x-ray probe of a titania photoelectrode sensitized with a triphenylamine dye. Journal of Chemical Physics, 2021, 154, 234707.	1.2	2
9	A titanic breakthrough. Nature Catalysis, 2021, 4, 740-741.	16.1	7
10	Dye-sensitized solar cells strike back. Chemical Society Reviews, 2021, 50, 12450-12550.	18.7	240
11	Ruthenium Assemblies for CO2 Reduction and H2 Generation: Time Resolved Infrared Spectroscopy, Spectroelectrochemistry and a Photocatalysis Study in Solution and on NiO. Frontiers in Chemistry, 2021, 9, 795877.	1.8	7
12	Probing the dyeâ€“semiconductor interface in dye-sensitized NiO solar cells. Journal of Chemical Physics, 2020, 153, 184704.	1.2	16
13	A Time-Resolved Spectroscopic Investigation of a Novel BODIPY Copolymer and Its Potential Use as a Photosensitiser for Hydrogen Evolution. Frontiers in Chemistry, 2020, 8, 584060.	1.8	5
14	Photosensitizers for H₂ Evolution Based on Charged or Neutral Zn and Sn Porphyrins. Inorganic Chemistry, 2020, 59, 1611-1621.	1.9	27
15	Neutral Lipophilic Palladium(II) Complexes and their Applications in Electrocatalytic Hydrogen Production and Câ€C Coupling Reactions. European Journal of Inorganic Chemistry, 2020, 2020, 813-822.	1.0	1
16	Developing photocathode materials for p-type dye-sensitized solar cells. Journal of Materials Chemistry C, 2019, 7, 10409-10445.	2.7	47
17	Assembly, charge-transfer and solar cell performance with porphyrin-C ₆₀ on NiO for p-type dye-sensitized solar cells. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2019, 377, 20180338.	1.6	4
18	Reduced Graphene Oxide-NiO Photocathodes for p-Type Dye-Sensitized Solar Cells. ACS Applied Energy Materials, 2019, 2, 7345-7353.	2.5	15

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19	Photoelectrocatalytic H₂ evolution from integrated photocatalysts adsorbed on NiO. Chemical Science, 2019, 10, 99-112.	3.7	31
20	A dual-function photoelectrochemical solar cell which assimilates light-harvesting, charge-transport and photoelectrochromic nanomaterials in a tandem design. Sustainable Energy and Fuels, 2019, 3, 514-528.	2.5	10
21	Pyridinium p-DSSC dyes: An old acceptor learns new tricks. Dyes and Pigments, 2019, 165, 508-517.	2.0	18
22	(Invited) Dye-Sensitized Metal Oxides for Artificial Photosynthesis. ECS Meeting Abstracts, 2019, , .	0.0	0
23	Bay Annulated Indigo as a New Chromophore for pâ€type Dyeâ€Sensitized Solar Cells. ChemPhotoChem, 2018, 2, 498-506.	1.5	12
24	A panchromatic, near infrared Ir(III) emitter bearing a tripodal C^N^C ligand as a dye for dye-sensitized solar cells. Polyhedron, 2018, 140, 109-115.	1.0	14
25	Rapid photoinduced charge injection into covalent polyoxometalateâ€“bodipy conjugates. Chemical Science, 2018, 9, 5578-5584.	3.7	43
26	Characterisation of redox states of metalâ€“organic frameworks by growth on modified thin-film electrodes. Chemical Science, 2018, 9, 6572-6579.	3.7	13
27	Investigation of a new bis(carboxylate)triazole-based anchoring ligand for dye solar cell chromophore complexes. Dalton Transactions, 2017, 46, 1520-1530.	1.6	17
28	New cyclometalated iridium(III) dye chromophore complexes for n-type dye-sensitised solar cells. Inorganica Chimica Acta, 2017, 457, 81-89.	1.2	11
29	Charge-transfer dynamics at the dyeâ€“semiconductor interface of photocathodes for solar energy applications. Faraday Discussions, 2017, 198, 449-461.	1.6	9
30	New cyclometalated iridium(III) dye chromophore complexes for p-type dye-sensitised solar cells. Dyes and Pigments, 2017, 140, 269-277.	2.0	30
31	Investigating interfacial electron transfer in dye-sensitized NiO using vibrational spectroscopy. Physical Chemistry Chemical Physics, 2017, 19, 7877-7885.	1.3	23
32	Inorganic assembly catalysts for artificial photosynthesis: general discussion. Faraday Discussions, 2017, 198, 481-507.	1.6	2
33	Molecular catalysts for artificial photosynthesis: general discussion. Faraday Discussions, 2017, 198, 353-395.	1.6	6
34	Chemical and Physical Reduction of High Valence Ni States in Mesoporous NiO Film for Solar Cell Application. ACS Applied Materials & Interfaces, 2017, 9, 33470-33477.	4.0	58
35	Dye-sensitized photocathodes for H₂evolution. Chemical Society Reviews, 2017, 46, 6194-6209.	18.7	118
36	Increasing p-type dye sensitised solar cell photovoltages using polyoxometalates. Physical Chemistry Chemical Physics, 2017, 19, 18831-18835.	1.3	19

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37	Resonance Raman Study of New Pyrroleâ€Anchoring Dyes for NiOâ€Sensitized Solar Cells. ChemPhysChem, 2017, 18, 406-414.	1.0	6
38	Hybrid Cyclometalated Iridium Coumarin Complex as a Sensitiser of Both nâ€•and pâ€Type DSSCs. European Journal of Inorganic Chemistry, 2016, 2016, 2887-2890.	1.0	31
39	Can aliphatic anchoring groups be utilised with dyes for p-type dye sensitized solar cells?. Dalton Transactions, 2016, 45, 7708-7719.	1.6	24
40	Does Iodine or Thiocyanate Play a Role in pâ€Type Dyeâ€Sensitized Solar Cells?. ChemElectroChem, 2016, 3, 1827-1836.	1.7	14
41	A comprehensive comparison of dye-sensitized NiO photocathodes for solar energy conversion. Physical Chemistry Chemical Physics, 2016, 18, 10727-10738.	1.3	135
42	Design and characterisation of bodipy sensitizers for dye-sensitized NiO solar cells. Physical Chemistry Chemical Physics, 2016, 18, 1059-1070.	1.3	45
43	Increased photocurrent in a tandem dye-sensitized solar cell by modifications in pushâ€“pull dye-design. Chemical Communications, 2015, 51, 3915-3918.	2.2	87
44	The ferrocene effect: enhanced electrocatalytic hydrogen production using meso-tetraferrocenyl porphyrin palladium(<scp>ii</scp>) and copper(<scp>ii</scp>) complexes. Dalton Transactions, 2015, 44, 14646-14655.	1.6	51
45	The influence of the preparation method of NiOx photocathodes on the efficiency of p-type dye-sensitized solar cells. Coordination Chemistry Reviews, 2015, 304-305, 179-201.	9.5	86
46	Ni Mg Mixed Metal Oxides for p-Type Dye-Sensitized Solar Cells. ACS Applied Materials & Interfaces, 2015, 7, 24556-24565.	4.0	34
47	Natural and artificial photosynthesis: general discussion. Faraday Discussions, 2015, 185, 187-217.	1.6	3
48	Self-organization of photo-active nanostructures: general discussion. Faraday Discussions, 2015, 185, 529-548.	1.6	2
49	Promoting charge-separation in p-type dye-sensitized solar cells using bodipy. Chemical Communications, 2014, 50, 5258-5260.	2.2	77
50	Novel triphenylamine-modified ruthenium(ii) terpyridine complexes for nickel oxide-based cathodic dye-sensitized solar cells. RSC Advances, 2014, 4, 5782.	1.7	37
51	Fabrication of Efficient NiO Photocathodes Prepared via RDS with Novel Routes of Substrate Processing for pâ€Type Dyeâ€Sensitized Solar Cells. ChemElectroChem, 2014, 1, 384-391.	1.7	51
52	Synthesis and properties of a meso- trisâ€“ferrocene appended zinc(ii) porphyrin and a critical evaluation of its dye sensitised solar cell (DSSC) performance. RSC Advances, 2014, 4, 22733-22742.	1.7	45
53	Red-Absorbing Cationic Acceptor Dyes for Photocathodes in Tandem Solar Cells. Journal of Physical Chemistry C, 2014, 118, 16536-16546.	1.5	51
54	Carbon counter electrodes efficient catalysts for the reduction of Co(III) in cobalt mediated dye-sensitized solar cells. Polyhedron, 2014, 82, 154-157.	1.0	9

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55	Luminescent biscyclometalated arylpyridine iridium(iii) complexes with 4,4â€²-bi-1,2,3-triazolyl ancillary ligands. Dalton Transactions, 2013, 42, 13527.	1.6	41
56	Dye sensitised solar cells with nickel oxide photocathodes prepared via scalable microwave sintering. Physical Chemistry Chemical Physics, 2013, 15, 2411.	1.3	71
57	Dye-Sensitized Photoelectrochemical Cells. , 2013, , 385-441.		2
58	Role of the Triiodide/Iodide Redox Couple in Dye Regeneration in p-Type Dye-Sensitized Solar Cells. Langmuir, 2012, 28, 6485-6493.	1.6	92
59	Recent advances and future directions to optimize the performances of p-type dye-sensitized solar cells. Coordination Chemistry Reviews, 2012, 256, 2414-2423.	9.5	265
60	Mesoporous Dye-Sensitized Solar Cells. , 2012, , 481-496.		2
61	CO2 photoreduction with long-wavelength light: dyads and monomers of zinc porphyrin and rhenium bipyridine. Chemical Communications, 2012, 48, 8189.	2.2	75
62	Synthesis, characterisation and theoretical study of ruthenium 4,4â€²-bi-1,2,3-triazolyl complexes: fundamental switching of the nature of S1 and T1 states from MLCT to MC. Dalton Transactions, 2012, 41, 7637.	1.6	47
63	Photomodulated Voltammetry of Iodide/Triiodide Redox Electrolytes and Its Relevance to Dye-Sensitized Solar Cells. Journal of Physical Chemistry Letters, 2011, 2, 3016-3020.	2.1	95
64	Cobalt Polypyridyl-Based Electrolytes for p-Type Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2011, 115, 9772-9779.	1.5	115
65	Synthesis, photophysical and photovoltaic investigations of acceptor-functionalized perylene monoimide dyes for nickel oxide p-type dye-sensitized solar cells. Energy and Environmental Science, 2011, 4, 2075.	15.6	142
66	Design of Organic Dyes and Cobalt Polypyridine Redox Mediators for High-Efficiency Dye-Sensitized Solar Cells. Journal of the American Chemical Society, 2010, 132, 16714-16724.	6.6	1,000
67	Doubleâ€Layered NiO Photocathodes for pâ€Type DSSCs with Record IPCE. Advanced Materials, 2010, 22, 1759-1762.	11.1	303
68	Synthesis and Mechanistic Studies of Organic Chromophores with Different Energy Levels for p-Type Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2010, 114, 4738-4748.	1.5	174
69	Design and synthesis of water soluble (metallo)porphyrins with pendant arms: studies of binding to xanthine oxidase. New Journal of Chemistry, 2010, 34, 1125.	1.4	9
70	A pâ€Type NiOâ€Based Dyeâ€Sensitized Solar Cell with an Openâ€Circuit Voltage of 0.35â€…V. Angewandte Chemie - International Edition, 2009, 48, 4402-4405.	7.2	257
71	Dye Regeneration by Spiro-MeOTAD in Solid State Dye-Sensitized Solar Cells Studied by Photoinduced Absorption Spectroscopy and Spectroelectrochemistry. Journal of Physical Chemistry C, 2009, 113, 6275-6281.	1.5	103