# Elizabeth A Gibson

List of Publications by Year
in descending order



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|---|---|---|---|
| 71 papers | 4,444 citations | 159358 30 h-index | 102304 66 g-index |
| 73 all docs | 73 docs citations | 73 times ranked | 4204 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | 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 |
| 2 | Doubleâ€Layered NiO Photocathodes for pâ€Type DSSCs with Record IPCE. Advanced Materials, 2010, 22, 1759-1762. | 11.1 | 303 |
| 3 | 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 |
| 4 | 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 |
| 5 | Dye-sensitized solar cells strike back. Chemical Society Reviews, 2021, 50, 12450-12550. | 18.7 | 240 |
| 6 | 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 |
| 7 | 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 |
| 8 | A comprehensive comparison of dye-sensitized NiO photocathodes for solar energy conversion. Physical Chemistry Chemical Physics, 2016, 18, 10727-10738. | 1.3 | 135 |
| 9 | Dye-sensitized photocathodes for H<sub>2</sub>evolution. Chemical Society Reviews, 2017, 46, 6194-6209. | 18.7 | 118 |
| 10 | Cobalt Polypyridyl-Based Electrolytes for p-Type Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2011, 115, 9772-9779. | 1.5 | 115 |
| 11 | 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 |
| 12 | 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 |
| 13 | 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 |
| 14 | 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 |
| 15 | 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 |
| 16 | Promoting charge-separation in p-type dye-sensitized solar cells using bodipy. Chemical Communications, 2014, 50, 5258-5260. | 2.2 | 77 |
| 17 | CO2 photoreduction with long-wavelength light: dyads and monomers of zinc porphyrin and rhenium bipyridine. Chemical Communications, 2012, 48, 8189. | 2.2 | 75 |
| 18 | Dye sensitised solar cells with nickel oxide photocathodes prepared via scalable microwave sintering. Physical Chemistry Chemical Physics, 2013, 15, 2411. | 1.3 | 71 |

| # | ARTICLE | IF | CITATIONS |
|---|---|---|---|
| 19 | 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 |
| 20 | Fabrication of Efficient NiO Photocathodes Prepared via RDS with Novel Routes of Substrate Processing for <i>p</i>â€Type Dyeâ€Sensitized Solar Cells. ChemElectroChem, 2014, 1, 384-391. | 1.7 | 51 |
| 21 | Red-Absorbing Cationic Acceptor Dyes for Photocathodes in Tandem Solar Cells. Journal of Physical Chemistry C, 2014, 118, 16536-16546. | 1.5 | 51 |
| 22 | 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 |
| 23 | 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 |
| 24 | Developing photocathode materials for p-type dye-sensitized solar cells. Journal of Materials Chemistry C, 2019, 7, 10409-10445. | 2.7 | 47 |
| 25 | 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 |
| 26 | Design and characterisation of bodipy sensitizers for dye-sensitized NiO solar cells. Physical Chemistry Chemical Physics, 2016, 18, 1059-1070. | 1.3 | 45 |
| 27 | Rapid photoinduced charge injection into covalent polyoxometalateâ€“bodipy conjugates. Chemical Science, 2018, 9, 5578-5584. | 3.7 | 43 |
| 28 | 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 |
| 29 | Novel triphenylamine-modified ruthenium(ii) terpyridine complexes for nickel oxide-based cathodic dye-sensitized solar cells. RSC Advances, 2014, 4, 5782. | 1.7 | 37 |
| 30 | Ni Mg Mixed Metal Oxides for p-Type Dye-Sensitized Solar Cells. ACS Applied Materials & Interfaces, 2015, 7, 24556-24565. | 4.0 | 34 |
| 31 | 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 |
| 32 | Photoelectrocatalytic H<sub>2</sub> evolution from integrated photocatalysts adsorbed on NiO. Chemical Science, 2019, 10, 99-112. | 3.7 | 31 |
| 33 | New cyclometalated iridium(III) dye chromophore complexes for p-type dye-sensitised solar cells. Dyes and Pigments, 2017, 140, 269-277. | 2.0 | 30 |
| 34 | Photosensitizers for H<sub>2</sub> Evolution Based on Charged or Neutral Zn and Sn Porphyrins. Inorganic Chemistry, 2020, 59, 1611-1621. | 1.9 | 27 |
| 35 | Can aliphatic anchoring groups be utilised with dyes for p-type dye sensitized solar cells?. Dalton Transactions, 2016, 45, 7708-7719. | 1.6 | 24 |
| 36 | Investigating interfacial electron transfer in dye-sensitized NiO using vibrational spectroscopy. Physical Chemistry Chemical Physics, 2017, 19, 7877-7885. | 1.3 | 23 |

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|---|---|---|---|
| 37 | Increasing p-type dye sensitised solar cell photovoltages using polyoxometalates. Physical Chemistry Chemical Physics, 2017, 19, 18831-18835. | 1.3 | 19 |
| 38 | 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 |
| 39 | Pyridinium p-DSSC dyes: An old acceptor learns new tricks. Dyes and Pigments, 2019, 165, 508-517. | 2.0 | 18 |
| 40 | 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 |
| 41 | Probing the dyeâ€“semiconductor interface in dye-sensitized NiO solar cells. Journal of Chemical Physics, 2020, 153, 184704. | 1.2 | 16 |
| 42 | Reduced Graphene Oxide-NiO Photocathodes for p-Type Dye-Sensitized Solar Cells. ACS Applied Energy Materials, 2019, 2, 7345-7353. | 2.5 | 15 |
| 43 | Does Iodine or Thiocyanate Play a Role in pâ€Type Dyeâ€Sensitized Solar Cells?. ChemElectroChem, 2016, 3, 1827-1836. | 1.7 | 14 |
| 44 | 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 |
| 45 | Characterisation of redox states of metalâ€“organic frameworks by growth on modified thin-film electrodes. Chemical Science, 2018, 9, 6572-6579. | 3.7 | 13 |
| 46 | Bay Annulated Indigo as a New Chromophore for pâ€type Dyeâ€Sensitized Solar Cells. ChemPhotoChem, 2018, 2, 498-506. | 1.5 | 12 |
| 47 | New cyclometalated iridium(III) dye chromophore complexes for n-type dye-sensitised solar cells. Inorganica Chimica Acta, 2017, 457, 81-89. | 1.2 | 11 |
| 48 | 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 |
| 49 | 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 |
| 50 | 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 |
| 51 | 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 |
| 52 | Charge-transfer dynamics at the dyeâ€“semiconductor interface of photocathodes for solar energy applications. Faraday Discussions, 2017, 198, 449-461. | 1.6 | 9 |
| 53 | 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 |
| 54 | A titanic breakthrough. Nature Catalysis, 2021, 4, 740-741. | 16.1 | 7 |

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|---|---|---|---|
| 55 | Pyridyl anchored indolium dyes for the p-type dye sensitized solar cell. Dyes and Pigments, 2022, 202, 110244. | 2.0 | 7 |
| 56 | 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 |
| 57 | Molecular catalysts for artificial photosynthesis: general discussion. Faraday Discussions, 2017, 198, 353-395. | 1.6 | 6 |
| 58 | Resonance Raman Study of New Pyrroleâ€Anchoring Dyes for NiOâ€Sensitized Solar Cells. ChemPhysChem, 2017, 18, 406-414. | 1.0 | 6 |
| 59 | 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 |
| 60 | Assembly, charge-transfer and solar cell performance with porphyrin-C <sub>60</sub> on NiO for p-type dye-sensitized solar cells. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2019, 377, 20180338. | 1.6 | 4 |
| 61 | Tuning Photoinduced Electron Transfer in POMâ€Bodipy Hybrids by Controlling the Environment: Experiment and Theory. Angewandte Chemie, 2021, 133, 6592-6599. | 1.6 | 4 |
| 62 | 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 |
| 63 | Natural and artificial photosynthesis: general discussion. Faraday Discussions, 2015, 185, 187-217. | 1.6 | 3 |
| 64 | Mesoporous Dye-Sensitized Solar Cells. , 2012, , 481-496. | | 2 |
| 65 | Dye-Sensitized Photoelectrochemical Cells. , 2013, , 385-441. | | 2 |
| 66 | Self-organization of photo-active nanostructures: general discussion. Faraday Discussions, 2015, 185, 529-548. | 1.6 | 2 |
| 67 | Inorganic assembly catalysts for artificial photosynthesis: general discussion. Faraday Discussions, 2017, 198, 481-507. | 1.6 | 2 |
| 68 | A soft x-ray probe of a titania photoelectrode sensitized with a triphenylamine dye. Journal of Chemical Physics, 2021, 154, 234707. | 1.2 | 2 |
| 69 | Photoelectrochemical Hydrogen Evolution Using Dye-Sensitised Nickel Oxide. Johnson Matthey Technology Review, 2022, 66, 21-31. | 0.5 | 1 |
| 70 | 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 |
| 71 | (Invited) Dye-Sensitized Metal Oxides for Artificial Photosynthesis. ECS Meeting Abstracts, 2019, , . | 0.0 | 0 |