

Mary T Pryce

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

46 papers	1,233 citations	18 h-index	34 g-index
47 ext. papers	1,346 ext. citations	6.5 avg, IF	4.32 L-index

#	Paper	IF	Citations
46	Design components of porphyrin-based photocatalytic hydrogen evolution systems: A review. <i>Coordination Chemistry Reviews</i> , 2022 , 467, 214599	23.2	3
45	Explaining the role of water in the "light-switch" probe for DNA intercalation: Modelling water loss from [Ru(phen)2(dppz)]2+·H2O using DFT and TD-DFT methods. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2021 , 410, 113169	4.7	3
44	A real options based decision support tool for R&D investment: Application to CO2 recycling technology. <i>European Journal of Operational Research</i> , 2021 , 289, 696-711	5.6	7
43	Photophysics of Ruthenium(II) Complexes with Thiazole "Extended Dipyridophenazine Ligands. <i>Inorganic Chemistry</i> , 2021 , 60, 760-773	5.1	6
42	Exploiting a Neutral BODIPY Copolymer as an Effective Agent for Photodynamic Antimicrobial Inactivation. <i>Journal of Physical Chemistry B</i> , 2021 , 125, 1550-1557	3.4	3
41	Ruthenium Assemblies for CO Reduction and H ₂ Generation: Time Resolved Infrared Spectroscopy, Spectroelectrochemistry and a Photocatalysis Study in Solution and on NiO. <i>Frontiers in Chemistry</i> , 2021 , 9, 795877	5	1
40	Photo-activated CO-release in the amino tungsten Fischer carbene complex, [(CO)WC(NCH)Me], picosecond time resolved infrared spectroscopy, time-dependent density functional theory, and an antimicrobial study. <i>Journal of Inorganic Biochemistry</i> , 2020 , 208, 111071	4.2	2
39	A Time-Resolved Spectroscopic Investigation of a Novel BODIPY Copolymer and Its Potential Use as a Photosensitiser for Hydrogen Evolution. <i>Frontiers in Chemistry</i> , 2020 , 8, 584060	5	2
38	Photochemical or electrochemical bond breaking - exploring the chemistry of (alkyne)Co(CO) complexes using time-resolved infrared spectroscopy, spectro-electrochemical and density functional methods. <i>Dalton Transactions</i> , 2019 , 48, 14642-14652	4.3	2
37	Photoelectrocatalytic H ₂ evolution from integrated photocatalysts adsorbed on NiO. <i>Chemical Science</i> , 2019 , 10, 99-112	9.4	23
36	Photo- and Electrochemical Properties of a CO ₂ Reducing Ruthenium/Rhenium Quaterpyridine-Based Catalyst. <i>ChemPhotoChem</i> , 2018 , 2, 323-331	3.3	12
35	Electrocatalytic hydrogen evolution using metal-free porphyrins. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 18843-18849	6.7	14
34	Hydrogen-Generating Ru/Pt Bimetallic Photocatalysts Based on Phenyl-Phenanthroline Peripheral Ligands. <i>ChemPhysChem</i> , 2018 , 19, 3084-3091	3.2	5
33	Enhancing Photocatalytic Hydrogen Generation: the Impact of the Peripheral Ligands in Ru/Pd and Ru/Pt Complexes. <i>Chemistry - A European Journal</i> , 2017 , 23, 5330-5337	4.8	10
32	Synthesis and Isotope Effects on the Excited State Properties of N ⁺ N ⁺ Bound [Ir(polypyridyl)2Cl2]PF ₆ Complexes. <i>European Journal of Inorganic Chemistry</i> , 2017 , 2017, 5598-5603	2.3	4
31	Peripheral ligands as electron storage reservoirs and their role in enhancement of photocatalytic hydrogen generation. <i>Chemical Communications</i> , 2016 , 52, 9371-4	5.8	18
30	Subtle Changes to Peripheral Ligands Enable High Turnover Numbers for Photocatalytic Hydrogen Generation with Supramolecular Photocatalysts. <i>Inorganic Chemistry</i> , 2016 , 55, 2685-90	5.1	31

29	An investigation into the photochemistry of, and the electrochemically induced CO-loss from, [(CO)5MC(OMe)Me](M = Cr or W) using low-temperature matrix isolation, picosecond infrared spectroscopy, cyclic voltammetry, and time-dependent density functional theory. <i>Dalton Transactions</i> , 2015 , 44, 15424-34	4.3	11
28	Transition metal functionalized photo- and redox-switchable diarylethene based molecular switches. <i>Coordination Chemistry Reviews</i> , 2015 , 282-283, 77-86	23.2	68
27	Supramolecular bimetallic assemblies for photocatalytic hydrogen generation from water. <i>Faraday Discussions</i> , 2015 , 185, 143-70	3.6	31
26	A photo- and electrochemical investigation of BODIPY-cobaloxime complexes for hydrogen production, coupled with quantum chemical calculations. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 5229-36	3.6	23
25	New synthetic pathways to the preparation of near-blue emitting heteroleptic Ir(III)N6 coordinated compounds with microsecond lifetimes. <i>Chemical Communications</i> , 2014 , 50, 6461-3	5.8	12
24	Controlled CO release using photochemical, thermal and electrochemical approaches from the amino carbene complex [(CO)4CrC(NCH2CH3)] <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 21230-3	3.6	8
23	Porphyrin-cobaloxime complexes for hydrogen production, a photo- and electrochemical study, coupled with quantum chemical calculations. <i>Dalton Transactions</i> , 2014 , 43, 3576-83	4.3	32
22	Incorporating Cobalt Carbonyl Moieties onto Ethynylthiophene-Based Dithienylcyclopentene Switches. 1. Photochemistry. <i>Organometallics</i> , 2014 , 33, 447-456	3.8	13
21	Incorporating Cobalt Carbonyl Moieties onto Ethynylthiophene-Based Dithienylcyclopentene Switches. 2. Electro- and Spectroelectrochemical Properties. <i>Organometallics</i> , 2014 , 33, 3309-3319	3.8	10
20	Excited state evolution towards ligand loss and ligand chelation at group 6 metal carbonyl centres. <i>Dalton Transactions</i> , 2014 , 43, 17797-805	4.3	5
19	Recent progress in the development of bimetallic photocatalysts for hydrogen generation. <i>Dalton Transactions</i> , 2013 , 42, 16243-54	4.3	64
18	Electrocatalytic pathways towards sustainable fuel production from water and CO2. <i>Coordination Chemistry Reviews</i> , 2012 , 256, 2571-2600	23.2	123
17	Effect of water during the quantitation of formate in photocatalytic studies on CO2 reduction in dimethylformamide. <i>Inorganic Chemistry</i> , 2012 , 51, 1977-9	5.1	41
16	The role of bridging ligand in hydrogen generation by photocatalytic Ru/Pd assemblies. <i>Dalton Transactions</i> , 2012 , 41, 13050-9	4.3	38
15	Photochemistry of (β-anisole)Cr(CO)3 and (β-thioanisole)Cr(CO)3: evidence for a photoinduced haptotropic shift of the thioanisole ligand, a picosecond time-resolved infrared spectroscopy and density functional theory investigation. <i>Journal of Physical Chemistry A</i> , 2012 , 116, 962-9	2.8	10
14	A Combined Theoretical and Experimental Study on the Wavelength-Dependent Photophysics of (β-benzene)Mo(CO)3. <i>Organometallics</i> , 2012 , 31, 268-272	3.8	10
13	The effect of peripheral bipyridine ligands on the photocatalytic hydrogen production activity of Ru/Pd catalysts. <i>Dalton Transactions</i> , 2011 , 40, 10812-4	4.3	43
12	Modification of the deoxy-myoglobin/carbonmonoxy-myoglobin UV-vis assay for reliable determination of CO-release rates from organometallic carbonyl complexes. <i>Dalton Transactions</i> , 2011 , 40, 5755-61	4.3	139

11	Photochemistry of (η^6 -arene)Cr(CO) ₃ (arene = methylbenzoate, naphthalene, or phenanthrene) in n-heptane solution: population of two excited states following 400 nm excitation as detected by picosecond time-resolved infrared spectroscopy. <i>Journal of Physical Chemistry A</i> , 2011 , 115, 2985-93	2.8	18
10	Evidence for cobalt-cobalt bond homolysis and wavelength-dependent CO loss in (η^2 -alkyne)Co ₂ (CO) ₆ complexes. <i>Inorganic Chemistry</i> , 2010 , 49, 10214-6	5.1	8
9	Excited state dynamics and activation parameters of remarkably slow photoinduced CO loss from (η^6 -benzene)Cr(CO) ₃ in n-heptane solution: a DFT and picosecond-time-resolved infrared study. <i>Journal of Physical Chemistry A</i> , 2010 , 114, 11425-31	2.8	15
8	Thienyl-appended porphyrins: Synthesis, photophysical and electrochemical properties, and their applications. <i>Coordination Chemistry Reviews</i> , 2010 , 254, 77-102	23.2	62
7	Photoinduced rearrangements in transition metal compounds. <i>Coordination Chemistry Reviews</i> , 2010 , 254, 2519-2532	23.2	50
6	Unusually Slow Photodissociation of CO from (η^6 -C ₆ H ₆)Cr(CO) ₃ (M = Cr or Mo): A Time-Resolved Infrared, Matrix Isolation, and DFT Investigation. <i>Organometallics</i> , 2009 , 28, 1461-1468	3.8	33
5	Visible light driven room temperature Pauson-Khand reaction. <i>Dalton Transactions</i> , 2009 , 7885-7	4.3	14
4	Photophysical and electrochemical properties of meso-substituted thien-2-yl Zn(II) porphyrins. <i>Journal of Physical Chemistry A</i> , 2008 , 112, 11611-8	2.8	28
3	Photophysical properties and applications of Re(I) and Re(I)/Ru(II) carbonyl polypyridyl complexes. <i>Coordination Chemistry Reviews</i> , 2008 , 252, 2585-2595	23.2	87
2	Redox control of meso-zinc(II) ferrocenylporphyrin based fluorescence switches. <i>Inorganic Chemistry</i> , 2007 , 46, 7247-9	5.1	85
1	The photochemistry of (η^2 -2-R-C ₃ H ₄)Fe(CO)(NO)(X) (R=H or Cl; X=CO or PPh ₃) in room temperature solution or frozen gas matrixes. <i>Journal of Organometallic Chemistry</i> , 2006 , 691, 3298-3304 ^{2,3}	2.3	6