

# Mary T Pryce

## List of Publications by Citations

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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	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> , <b>2011</b> , 40, 5755-61	4.3	139
45	Electrocatalytic pathways towards sustainable fuel production from water and CO <sub>2</sub> . <i>Coordination Chemistry Reviews</i> , <b>2012</b> , 256, 2571-2600	23.2	123
44	Photophysical properties and applications of Re(I) and Re(I)Ru(II) carbonyl polypyridyl complexes. <i>Coordination Chemistry Reviews</i> , <b>2008</b> , 252, 2585-2595	23.2	87
43	Redox control of meso-zinc(II) ferrocenylporphyrin based fluorescence switches. <i>Inorganic Chemistry</i> , <b>2007</b> , 46, 7247-9	5.1	85
42	Transition metal functionalized photo- and redox-switchable diarylethene based molecular switches. <i>Coordination Chemistry Reviews</i> , <b>2015</b> , 282-283, 77-86	23.2	68
41	Recent progress in the development of bimetallic photocatalysts for hydrogen generation. <i>Dalton Transactions</i> , <b>2013</b> , 42, 16243-54	4.3	64
40	Thienyl appended porphyrins: Synthesis, photophysical and electrochemical properties, and their applications. <i>Coordination Chemistry Reviews</i> , <b>2010</b> , 254, 77-102	23.2	62
39	Photoinduced rearrangements in transition metal compounds. <i>Coordination Chemistry Reviews</i> , <b>2010</b> , 254, 2519-2532	23.2	50
38	The effect of peripheral bipyridine ligands on the photocatalytic hydrogen production activity of Ru/Pd catalysts. <i>Dalton Transactions</i> , <b>2011</b> , 40, 10812-4	4.3	43
37	Effect of water during the quantitation of formate in photocatalytic studies on CO <sub>2</sub> reduction in dimethylformamide. <i>Inorganic Chemistry</i> , <b>2012</b> , 51, 1977-9	5.1	41
36	The role of bridging ligand in hydrogen generation by photocatalytic Ru/Pd assemblies. <i>Dalton Transactions</i> , <b>2012</b> , 41, 13050-9	4.3	38
35	Unusually Slow Photodissociation of CO from (M-C <sub>6</sub> H <sub>6</sub> )Cr(CO) <sub>3</sub> (M = Cr or Mo): A Time-Resolved Infrared, Matrix Isolation, and DFT Investigation. <i>Organometallics</i> , <b>2009</b> , 28, 1461-1468	3.8	33
34	Porphyrin-cobaloxime complexes for hydrogen production, a photo- and electrochemical study, coupled with quantum chemical calculations. <i>Dalton Transactions</i> , <b>2014</b> , 43, 3576-83	4.3	32
33	Subtle Changes to Peripheral Ligands Enable High Turnover Numbers for Photocatalytic Hydrogen Generation with Supramolecular Photocatalysts. <i>Inorganic Chemistry</i> , <b>2016</b> , 55, 2685-90	5.1	31
32	Supramolecular bimetallic assemblies for photocatalytic hydrogen generation from water. <i>Faraday Discussions</i> , <b>2015</b> , 185, 143-70	3.6	31
31	Photophysical and electrochemical properties of meso-substituted thien-2-yl Zn(II) porphyrins. <i>Journal of Physical Chemistry A</i> , <b>2008</b> , 112, 11611-8	2.8	28
30	Photoelectrocatalytic H <sub>2</sub> evolution from integrated photocatalysts adsorbed on NiO. <i>Chemical Science</i> , <b>2019</b> , 10, 99-112	9.4	23

29	A photo- and electrochemical investigation of BODIPY-cobaloxime complexes for hydrogen production, coupled with quantum chemical calculations. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 5229-36	3.6	23
28	Peripheral ligands as electron storage reservoirs and their role in enhancement of photocatalytic hydrogen generation. <i>Chemical Communications</i> , <b>2016</b> , 52, 9371-4	5.8	18
27	Photochemistry of ( $\eta^6$ -arene)Cr(CO) <sub>3</sub> (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> , <b>2011</b> , 115, 2985-93	2.8	18
26	Excited state dynamics and activation parameters of remarkably slow photoinduced CO loss from ( $\eta^6$ -benzene)Cr(CO) <sub>3</sub> in n-heptane solution: a DFT and picosecond-time-resolved infrared study. <i>Journal of Physical Chemistry A</i> , <b>2010</b> , 114, 11425-31	2.8	15
25	Visible light driven room temperature Pauson-Khand reaction. <i>Dalton Transactions</i> , <b>2009</b> , 7885-7	4.3	14
24	Electrocatalytic hydrogen evolution using metal-free porphyrins. <i>International Journal of Hydrogen Energy</i> , <b>2018</b> , 43, 18843-18849	6.7	14
23	Incorporating Cobalt Carbonyl Moieties onto Ethynylthiophene-Based Dithienylcyclopentene Switches. 1. Photochemistry. <i>Organometallics</i> , <b>2014</b> , 33, 447-456	3.8	13
22	Photo- and Electrochemical Properties of a CO <sub>2</sub> Reducing Ruthenium-Bhenium Quaterpyridine-Based Catalyst. <i>ChemPhotoChem</i> , <b>2018</b> , 2, 323-331	3.3	12
21	New synthetic pathways to the preparation of near-blue emitting heteroleptic Ir(III)N <sub>6</sub> coordinated compounds with microsecond lifetimes. <i>Chemical Communications</i> , <b>2014</b> , 50, 6461-3	5.8	12
20	An investigation into the photochemistry of, and the electrochemically induced CO-loss from, [(CO) <sub>5</sub> MC(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> , <b>2015</b> , 44, 15424-34	4.3	11
19	Enhancing Photocatalytic Hydrogen Generation: the Impact of the Peripheral Ligands in Ru/Pd and Ru/Pt Complexes. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 5330-5337	4.8	10
18	Incorporating Cobalt Carbonyl Moieties onto Ethynylthiophene-Based Dithienylcyclopentene Switches. 2. Electro- and Spectroelectrochemical Properties. <i>Organometallics</i> , <b>2014</b> , 33, 3309-3319	3.8	10
17	Photochemistry of ( $\eta^6$ -anisole)Cr(CO) <sub>3</sub> and ( $\eta^6$ -thioanisole)Cr(CO) <sub>3</sub> : 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> , <b>2012</b> , 116, 962-9	2.8	10
16	A Combined Theoretical and Experimental Study on the Wavelength-Dependent Photophysics of ( $\eta^6$ -benzene)Mo(CO) <sub>3</sub> . <i>Organometallics</i> , <b>2012</b> , 31, 268-272	3.8	10
15	Controlled CO release using photochemical, thermal and electrochemical approaches from the amino carbene complex [(CO) <sub>5</sub> CrC(NCH <sub>2</sub> CH <sub>3</sub> )]. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 21230-3	3.6	8
14	Evidence for cobalt-cobalt bond homolysis and wavelength-dependent CO loss in ( $\eta^2$ -alkyne)Co <sub>2</sub> (CO) <sub>6</sub> complexes. <i>Inorganic Chemistry</i> , <b>2010</b> , 49, 10214-6	5.1	8
13	A real options based decision support tool for R&D investment: Application to CO <sub>2</sub> recycling technology. <i>European Journal of Operational Research</i> , <b>2021</b> , 289, 696-711	5.6	7
12	The photochemistry of ( $\eta^6$ -2-R-C <sub>3</sub> H <sub>4</sub> )Fe(CO)(NO)(X) (R=H or Cl; X=CO or PPh <sub>3</sub> ) in room temperature solution or frozen gas matrixes. <i>Journal of Organometallic Chemistry</i> , <b>2006</b> , 691, 3298-3304 <sup>2-3</sup>	2.3	6

11	Photophysics of Ruthenium(II) Complexes with Thiazole Extended Dipyridophenazine Ligands. <i>Inorganic Chemistry</i> , <b>2021</b> , 60, 760-773	5.1	6
10	Excited state evolution towards ligand loss and ligand chelation at group 6 metal carbonyl centres. <i>Dalton Transactions</i> , <b>2014</b> , 43, 17797-805	4.3	5
9	Hydrogen-Generating Ru/Pt Bimetallic Photocatalysts Based on Phenyl-Phenanthroline Peripheral Ligands. <i>ChemPhysChem</i> , <b>2018</b> , 19, 3084-3091	3.2	5
8	Synthesis and Isotope Effects on the Excited State Properties of N <sup>^</sup> N Bound [Ir(polypyridyl) <sub>2</sub> Cl <sub>2</sub> ] <sub>2</sub> PF <sub>6</sub> Complexes. <i>European Journal of Inorganic Chemistry</i> , <b>2017</b> , 2017, 5598-5603	2.3	4
7	Explaining the role of water in the "light-switch" probe for DNA intercalation: Modelling water loss from [Ru(phen) <sub>2</sub> (dppz)] <sup>2+</sup> ·nH <sub>2</sub> O using DFT and TD-DFT methods. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2021</b> , 410, 113169	4.7	3
6	Exploiting a Neutral BODIPY Copolymer as an Effective Agent for Photodynamic Antimicrobial Inactivation. <i>Journal of Physical Chemistry B</i> , <b>2021</b> , 125, 1550-1557	3.4	3
5	Design components of porphyrin-based photocatalytic hydrogen evolution systems: A review. <i>Coordination Chemistry Reviews</i> , <b>2022</b> , 467, 214599	23.2	3
4	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> , <b>2019</b> , 48, 14642-14652	4.3	2
3	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> , <b>2020</b> , 208, 111071	4.2	2
2	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> , <b>2020</b> , 8, 584060	5	2
1	Ruthenium Assemblies for CO Reduction and H <sub>2</sub> Generation: Time Resolved Infrared Spectroscopy, Spectroelectrochemistry and a Photocatalysis Study in Solution and on NiO. <i>Frontiers in Chemistry</i> , <b>2021</b> , 9, 795877	5	1