Mary T Pryce

List of Publications by Year
in descending order

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47 papers	1,486 citations	331538 21 h-index	315616 38 g-index
47 all docs	47 docs citations	47 times ranked	2244 citing authors

#	Article	IF	Citations
1	Modification of the deoxy-myoglobin/carbonmonoxy-myoglobin UV-vis assay for reliable determination of CO-release rates from organometallic carbonyl complexes. Dalton Transactions, 2011, 40, 5755.	1.6	155
2	Electrocatalytic pathways towards sustainable fuel production from water and CO2. Coordination Chemistry Reviews, 2012, 256, 2571-2600.	9.5	138
3	Photophysical properties and applications of Re(I) and Re(I)â€“Ru(II) carbonyl polypyridyl complexes. Coordination Chemistry Reviews, 2008, 252, 2585-2595.	9.5	94
4	Redox Control of meso-Zinc(II) Ferrocenylporphyrin Based Fluorescence Switches. Inorganic Chemistry, 2007, 46, 7247-7249.	1.9	86
5	Transition metal functionalized photo- and redox-switchable diarylethene based molecular switches. Coordination Chemistry Reviews, 2015, 282-283, 77-86.	9.5	80
6	Thienylâ€”Appended porphyrins: Synthesis, photophysical and electrochemical properties, and their applications. Coordination Chemistry Reviews, 2010, 254, 77-102.	9.5	71
7	Recent progress in the development of bimetallic photocatalysts for hydrogen generation. Dalton Transactions, 2013, 42, 16243.	1.6	70
8	Photoinduced rearrangements in transition metal compounds. Coordination Chemistry Reviews, 2010, 254, 2519-2532.	9.5	52
9	The effect of peripheral bipyridine ligands on the photocatalytic hydrogen production activity of Ru/Pd catalysts. Dalton Transactions, 2011, 40, 10812.	1.6	47
10	Effect of Water during the Quantitation of Formate in Photocatalytic Studies on CO₂ Reduction in Dimethylformamide. Inorganic Chemistry, 2012, 51, 1977-1979.	1.9	47
11	The role of bridging ligand in hydrogen generation by photocatalytic Ru/Pd assemblies. Dalton Transactions, 2012, 41, 13050.	1.6	42
12	Design components of porphyrin-based photocatalytic hydrogen evolution systems: A review. Coordination Chemistry Reviews, 2022, 467, 214599.	9.5	42
13	Unusually Slow Photodissociation of CO from (Î·⁶-C₆H₆)Cr(CO)₃ (M = Cr or Mo): A Time-Resolved Infrared, Matrix Isolation, and DFT Investigation. Organometallics, 2009, 28, 1461-1468.	1.1	38
14	Porphyrinâ€“cobaloxime complexes for hydrogen production, a photo- and electrochemical study, coupled with quantum chemical calculations. Dalton Transactions, 2014, 43, 3576.	1.6	38
15	Subtle Changes to Peripheral Ligands Enable High Turnover Numbers for Photocatalytic Hydrogen Generation with Supramolecular Photocatalysts. Inorganic Chemistry, 2016, 55, 2685-2690.	1.9	38
16	Supramolecular bimetallic assemblies for photocatalytic hydrogen generation from water. Faraday Discussions, 2015, 185, 143-170.	1.6	35
17	Photophysical and Electrochemical Properties of meso-Substituted Thien-2-yl Zn(II) Porphyrins. Journal of Physical Chemistry A, 2008, 112, 11611-11618.	1.1	34
18	Photoelectrocatalytic H₂ evolution from integrated photocatalysts adsorbed on NiO. Chemical Science, 2019, 10, 99-112.	3.7	31

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19	A photo- and electrochemical investigation of BODIPYâ€“cobaloxime complexes for hydrogen production, coupled with quantum chemical calculations. Physical Chemistry Chemical Physics, 2014, 16, 5229.	1.3	29
20	A real options based decision support tool for R&D investment: Application to CO2 recycling technology. European Journal of Operational Research, 2021, 289, 696-711.	3.5	28
21	Peripheral ligands as electron storage reservoirs and their role in enhancement of photocatalytic hydrogen generation. Chemical Communications, 2016, 52, 9371-9374.	2.2	24
22	Electrocatalytic hydrogen evolution using metal-free porphyrins. International Journal of Hydrogen Energy, 2018, 43, 18843-18849.	3.8	22
23	Photochemistry of (Î·⁶-Arene)Cr(CO)₃ (Arene = Methylbenzoate, Naphthalene,) Tj ETQq1 1 0.784314 rgBT Excitation As Detected by Picosecond Time-Resolved Infrared Spectroscopy. Journal of Physical Chemistry A, 2011, 115, 2985-2993.	1.1	19
24	Photoâ€•and Electrochemical Properties of a CO₂ Reducing Rutheniumâ€“Rhenium Quaterpyridineâ€Based Catalyst. ChemPhotoChem, 2018, 2, 323-331.	1.5	18
25	Excited State Dynamics and Activation Parameters of Remarkably Slow Photoinduced CO Loss from (Î·⁶-Benzene)Cr(CO)₃ in n-Heptane Solution: A DFT and Picosecond-Time-Resolved Infrared Study. Journal of Physical Chemistry A, 2010, 114, 11425-11431.	1.1	16
26	Photophysics of Ruthenium(II) Complexes with Thiazole Ï€-Extended Dipyridophenazine Ligands. Inorganic Chemistry, 2021, 60, 760-773.	1.9	16
27	Incorporating Cobalt Carbonyl Moieties onto Ethynylthiophene-Based Dithienylcyclopentene Switches. 1. Photochemistry. Organometallics, 2014, 33, 447-456.	1.1	15
28	Visible light driven room temperature Pausonâ€“Khand reaction. Dalton Transactions, 2009, , 7885.	1.6	14
29	Enhancing Photocatalytic Hydrogen Generation: the Impact of the Peripheral Ligands in Ru/Pd and Ru/Pt Complexes. Chemistry - A European Journal, 2017, 23, 5330-5337.	1.7	14
30	New synthetic pathways to the preparation of near-blue emitting heteroleptic Ir(iii)N6 coordinated compounds with microsecond lifetimes. Chemical Communications, 2014, 50, 6461-6463.	2.2	13
31	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. Dalton Transactions, 2015, 44, 15424-15434.	1.6	12
32	Evidence for Cobaltâ^'Cobalt Bond Homolysis and Wavelength-Dependent CO Loss in (Î¼₂-Alkyne)Co₂(CO)₆ Complexes. Inorganic Chemistry, 2010, 49, 10214-10216.	1.9	11
33	A Combined Theoretical and Experimental Study on the Wavelength-Dependent Photophysics of (Î·⁶-benzene)Mo(CO)₃. Organometallics, 2012, 31, 268-272.	1.1	11
34	Incorporating Cobalt Carbonyl Moieties onto Ethynylthiophene-Based Dithienylcyclopentene Switches. 2. Electro- and Spectroelectrochemical Properties. Organometallics, 2014, 33, 3309-3319.	1.1	11
35	Photochemistry of (Î·6-Anisole)Cr(CO)3and (Î·6-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. Journal of Physical Chemistry A, 2012, 116, 962-969.	1.1	10
36	Controlled CO release using photochemical, thermal and electrochemical approaches from the amino carbene complex [(CO)5CrC(NC4H8)CH3]. Physical Chemistry Chemical Physics, 2014, 16, 21230-21233.	1.3	10

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37	Hydrogenâ€Generating Ru/Pt Bimetallic Photocatalysts Based on Phenylâ€Phenanthroline Peripheral Ligands. ChemPhysChem, 2018, 19, 3084-3091.	1.0	7
38	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
39	The photochemistry of (Î·3-2-R-C3H4)Fe(CO)(NO)(X) (R=H or Cl; X=CO or PPh3) in room temperature solution or frozen gas matrixes. Journal of Organometallic Chemistry, 2006, 691, 3298-3304.	0.8	6
40	Excited state evolution towards ligand loss and ligand chelation at group 6 metal carbonyl centres. Dalton Transactions, 2014, 43, 17797-17805.	1.6	6
41	Photo-activated CO-release in the amino tungsten Fischer carbene complex, [(CO)5WC(NC4H8)Me], picosecond time resolved infrared spectroscopy, time-dependent density functional theory, and an antimicrobial study. Journal of Inorganic Biochemistry, 2020, 208, 111071.	1.5	6
42	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
43	Explaining the role of water in the â€œlight-switchâ€•probe for DNA intercalation: Modelling water loss from [Ru(phen)2(dppz)]2+â€¢2H2O using DFT and TD-DFT methods. Journal of Photochemistry and Photobiology A: Chemistry, 2021, 410, 113169.	2.0	5
44	Synthesis and Isotope Effects on the Excited State Properties of N^ N Bound [Ir(polypyridyl)2 Cl2]PF6 Complexes. European Journal of Inorganic Chemistry, 2017, 2017, 5598-5603.	1.0	4
45	Photochemical or electrochemical bond breaking â€“ exploring the chemistry of (Î¼₂-alkyne)Co₂(CO)₆ complexes using time-resolved infrared spectroscopy, spectro-electrochemical and density functional methods. Dalton Transactions, 2019, 48, 14642-14652.	1.6	4
46	Exploiting a Neutral BODIPY Copolymer as an Effective Agent for Photodynamic Antimicrobial Inactivation. Journal of Physical Chemistry B, 2021, 125, 1550-1557.	1.2	4
47	Photoelectrochemical Hydrogen Evolution Using Dye-Sensitised Nickel Oxide. Johnson Matthey Technology Review, 2022, 66, 21-31.	0.5	1