

Wai Yip Fan

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Shape Evolution of Cu ₂ O Nanostructures via Kinetic and Thermodynamic Controlled Growth. Journal of Physical Chemistry B, 2006, 110, 20801-20807.	1.2	220
2	Formation of Ag ₂ Se Nanotubes and Dendrite-like Structures from UV Irradiation of a CSe ₂ /Ag Colloidal Solution. Langmuir, 2006, 22, 9712-9717.	1.6	80
3	Stereoselective Hydrosilylation of Terminal Alkynes Catalyzed by [Cp*IrCl ₂] ₂ : A Computational and Experimental Study. Organometallics, 2007, 26, 1157-1160.	1.1	58
4	Facile Synthesis of Single-Crystalline ¹³ CuI Nanotetrahedrons and Their Induced Transformation to Tetrahedral CuO Nanocages. Journal of Physical Chemistry C, 2007, 111, 9166-9171.	1.5	56
5	Synthesis and Self-Assembly of One-Dimensional Sub-10 nm Ag Nanoparticles with Cyclodextrin. Journal of Physical Chemistry C, 2008, 112, 4141-4145.	1.5	54
6	A Diode Laser and Modeling Study of Mixed (CH ₄ +H ₂ +O ₂) AC Plasmas. Journal of Physical Chemistry A, 1999, 103, 4118-4128.	1.1	52
7	Catalytic Hydrogen Generation from the Hydrolysis of Silanes by Ruthenium Complexes. Organometallics, 2011, 30, 4008-4013.	1.1	50
8	Thermal and Photochemical Reactivity of Manganese Tricarbonyl and Tetracarbonyl Complexes with a Bulky Diazabutadiene Ligand. Inorganic Chemistry, 2014, 53, 4081-4088.	1.9	50
9	Tunable Diode Laser Diagnostic Studies of H ₂ -Ar-O ₂ Microwave Plasmas Containing Methane or Methanol. Plasma Chemistry and Plasma Processing, 1999, 19, 395-419.	1.1	49
10	Photocatalytic Transformation of Organic and Water-Soluble Thiols into Disulfides and Hydrogen under Aerobic Conditions Using Mn(CO) ₅ Br. Organometallics, 2011, 30, 4136-4143.	1.1	45
11	Preparation of Graphite-Coated Iron Nanoparticles Using Pulsed Laser Decomposition of Fe ₃ (CO) ₁₂ and PPh ₃ in Hexane. Chemistry of Materials, 2007, 19, 3845-3849.	3.2	42
12	The Dithiolate-Bridged Diiron Hexacarbonyl Complex Na ₂ [(¹ / ₄ -SCH ₂ CH ₂ COO)Fe(CO) ₃] ₂ as a Water-Soluble PhotoCORM. Organometallics, 2014, 33, 959-963.	1.1	38
13	Laser-based synthesis of core Ag-shell AgI nanoparticles. Chemical Physics Letters, 2005, 406, 289-293.	1.2	37
14	Core-Shell and Hollow Nanocrystal Formation via Small Molecule Surface Photodissociation; Ag@Ag ₂ Se as an Example. Journal of Physical Chemistry B, 2006, 110, 15812-15816.	1.2	36
15	Uncovering Metastable ¹ -Ag ₂ MoO ₄ Phase Under Ambient Conditions. Overcoming High Pressures by 2,3-Bis(2-pyridyl)pyrazine Doping. Crystal Growth and Design, 2015, 15, 3032-3037.	1.4	34
16	CpMn(CO) ₃ -Catalyzed Photoconversion of Thiols into Disulfides and Dihydrogen. Organometallics, 2010, 29, 4459-4463.	1.1	32
17	Self-Organization of Spherical, Core-Shell Palladium Aggregates by Laser-Induced and Thermal Decomposition of [Pd(PPh ₃) ₄]. Angewandte Chemie - International Edition, 2006, 45, 1120-1123.	7.2	31
18	Hydrogen Generation from Water upon CpMn(CO) ₃ Irradiation in a Hexane/Water Biphasic System. Organometallics, 2011, 30, 2154-2159.	1.1	30

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19	Controlled Synthesis of Ag^0 -AgI Nanoplatelets from Selective Nucleation of Twinned Ag Seeds in a Tandem Reaction. <i>Journal of Physical Chemistry C</i> , 2007, 111, 2953-2958.	1.5	29
20	Electrocatalytic hydrogen generation by a trithiolato-bridged dimanganese hexacarbonyl anion with a turnover frequency exceeding $40 \times 10^3 \text{ s}^{-1}$. <i>Chemical Communications</i> , 2014, 50, 6630-6632.	2.2	28
21	A novel iron complex for highly efficient catalytic hydrogen generation from the hydrolysis of organosilanes. <i>Chemical Communications</i> , 2014, 50, 7191-7194.	2.2	27
22	$[\text{Cp}^*\text{IrCl}_2]_2$ -Assisted C-C Bond Cleavage with Water: An Experimental and Computational Study. <i>Organometallics</i> , 2007, 26, 1173-1177.	1.1	26
23	Ruthenium carbonyl-catalysed Si-heteroatom X coupling (X = S, O, N). <i>Journal of Organometallic Chemistry</i> , 2012, 717, 9-13.	0.8	26
24	Preparation of rhenium nanoparticles via pulsed-laser decomposition and catalytic studies. <i>Journal of Colloid and Interface Science</i> , 2012, 369, 164-169.	5.0	26
25	Direct Functionalization of the Hydroxyl Group of the 6-Mercapto-1-hexanol (MCH) Ligand Attached to Gold Nanoclusters. <i>Journal of Physical Chemistry B</i> , 2006, 110, 21690-21693.	1.2	24
26	Electrocatalytic proton reduction catalyzed by a dimanganese disulfide carbonyl complex containing a redox-active internal disulfide bond. <i>Dalton Transactions</i> , 2014, 43, 16977-16980.	1.6	24
27	A simple route to water-soluble size-tunable monodispersed Pd nanoparticles from light decomposition of $\text{Pd}(\text{PPh}_3)_4$. <i>Chemical Physics Letters</i> , 2006, 428, 352-355.	1.2	19
28	Ligand-Controlled Regio- and Stereoselective Addition of Carboxylic Acids Onto Terminal Alkynes Catalyzed by Carbonylruthenium(0) Complexes. <i>European Journal of Inorganic Chemistry</i> , 2010, 2010, 4631-4635.	1.0	18
29	Facile Synthesis of Single Crystalline Rhenium (VI) Trioxide Nanocubes with High Catalytic Efficiency for Photodegradation of Methyl Orange. <i>Journal of Colloid and Interface Science</i> , 2013, 397, 18-23.	5.0	18
30	Addition of pyrroles onto terminal alkynes catalyzed by a dinuclear ruthenium (II) complex. <i>Journal of Organometallic Chemistry</i> , 2012, 708-709, 58-64.	0.8	17
31	Cyclopentadienyl iron dicarbonyl ($\text{CpFe}(\text{CO})_2$) derivatives as apoptosis-inducing agents. <i>RSC Advances</i> , 2016, 6, 18814-18823.	1.7	16
32	Ancillary Ligand Effects upon the Photochemistry of $\text{Mn}(\text{bpy})(\text{CO})_3\text{X}$ Complexes (X = Cl, Br, I). <i>Journal of Organometallic Chemistry</i> , 2011, 881, 10-16.	1.9	16
33	Catalytic hydrogen evolution from hydrolytic oxidation of organosilanes with silver nitrate catalyst. <i>RSC Advances</i> , 2014, 4, 37645-37648.	1.7	15
34	Intramolecular C-C Bond Coupling of Nitriles to a Diimine Ligand in Group 7 Metal Tricarbonyl Complexes. <i>Inorganic Chemistry</i> , 2015, 54, 11441-11449.	1.9	15
35	TR-FTIR absorption spectroscopy of transition metal carbonyl radicals generated by photodissociation of metal-metal bonds, by halogen abstraction or by radical ligand substitution. <i>Journal of Organometallic Chemistry</i> , 2005, 690, 4132-4138.	0.8	14
36	Photochemical Reaction of $\text{Cp}^*\text{Ir}(\text{CO})_2$ with $\text{C}_6\text{F}_5\text{X}$ (X = CN, F): Formation of Diiridium(II) Complexes. <i>Organometallics</i> , 2013, 32, 1053-1059.	1.1	14

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37	Colloidal Beading: Sonication-Induced Stringing of Selenium Particles. <i>Langmuir</i> , 2014, 30, 7313-7318.	1.6	14
38	Bis(cyclopentadienyl)nickel(II) $\frac{1}{4}$ -Thiolato Complexes as Proton Reduction Electrocatalysts. <i>Inorganic Chemistry</i> , 2019, 58, 12178-12183.	1.9	14
39	Preparation of highly uniform 1-dimensional $\frac{1}{2}$ -Ag ₂ WO ₄ nanostructures with controllable aspect ratio and study of the growth mechanism. <i>CrystEngComm</i> , 2016, 18, 8010-8019.	1.3	13
40	Modelling fluorescence lifetimes with TD-DFT: a case study with syn-bimanes. <i>RSC Advances</i> , 2016, 6, 87237-87245.	1.7	13
41	Rapid intersystem crossings in anti bimanes. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 7404-7413.	1.3	13
42	Crystal Origami: Preparation of $\frac{1}{2}$ -Ag ₂ MoO ₄ Concave and Convex Crystals with High-Index Facets. <i>ChemNanoMat</i> , 2017, 3, 178-182.	1.5	13
43	Electrocatalytic proton reduction by an air-stable nickel(<i>ii</i>)-thiolato PNN pincer complex. <i>Dalton Transactions</i> , 2018, 47, 8483-8488.	1.6	13
44	Using non-empirically tuned range-separated functionals with simulated emission bands to model fluorescence lifetimes. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 21046-21057.	1.3	12
45	A Robust Pentacoordinated Iron(II) Proton Reduction Catalyst Stabilized by a Tripodal Phosphine. <i>Inorganic Chemistry</i> , 2017, 56, 10926-10931.	1.9	12
46	Thermal Dehydrogenation of Dimethylamine Borane Catalyzed by a Bifunctional Rhenium Complex. <i>Organometallics</i> , 2019, 38, 2602-2609.	1.1	12
47	Preparation of Ag Stellar Dendrites: Modeling the Growth of Stellar Snowflakes. <i>Crystal Growth and Design</i> , 2014, 14, 6067-6072.	1.4	11
48	Electrochemical proton reduction catalysed by selenolato-manganese carbonyl complexes. <i>RSC Advances</i> , 2015, 5, 39303-39309.	1.7	11
49	FTIR Studies of Iron ^{II} Carbonyl Intermediates in Allylic Alcohol Photoisomerization. <i>Chemistry - A European Journal</i> , 2006, 12, 5128-5133.	1.7	10
50	Reactivity of the CpMn(CO) ₂ XR Bond [X = Cl, Br]: A Kinetic Study Using Rapid-Scan FTIR Spectroscopy. <i>Organometallics</i> , 2008, 27, 5488-5493.	1.1	10
51	Ru ₄ (CO) ₈ ($\frac{1}{4}$ -OOCAd) ₄ (PPh ₃) ₂ : Phosphine Derivative of an Electron-Deficient Linear Tetra ruthenium Cluster. <i>Organometallics</i> , 2011, 30, 6774-6777.	1.1	10
52	Catalytic Hydrosilylation of Carbonyls via Re(CO) ₅ Cl Photolysis. <i>Organometallics</i> , 2012, 31, 3880-3887.	1.1	10
53	Oxidation of aromatic alkenes and alkynes catalyzed by a hexa-acetonitrile iron(ii) ionic complex [Fe(CH ₃ CN) ₆][BF ₄] ₂ . <i>New Journal of Chemistry</i> , 2018, 42, 11131-11136.	1.4	10
54	Osmium Carbonyl Clusters on Gold and Silver Nanoparticles as Models for Studying the Interaction with the Metallic Surface. <i>Journal of Physical Chemistry C</i> , 2009, 113, 18562-18569.	1.5	9

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55	Ligand Substitution from the (η^5 -DMP)Mn(CO) ₂ (Solv) [DMP = 2,5-dimethylpyrrole, Solv = solvent] Complexes: To Ring Slip or Not to Ring Slip?. <i>Inorganic Chemistry</i> , 2010, 49, 7597-7604.	1.9	9
56	Proton reduction using cobalt glyoximes with isothiocyanate and aniline axial ligands. <i>Polyhedron</i> , 2015, 96, 38-43.	1.0	9
57	Shape-Controlled Preparation of Basic Bismuth Nitrate Crystals with High Iodide Removal Capacities. <i>ChemNanoMat</i> , 2016, 2, 133-139.	1.5	9
58	Synthetic, X-ray Diffraction, Electrochemical, and Density Functional Theoretical Studies of (Indenyl)ruthenium Complexes Containing Dithiolate Ligands. <i>European Journal of Inorganic Chemistry</i> , 2007, 2007, 3827-3840.	1.0	8
59	Stoichiometric H ₂ production from H ₂ O upon Mn ₂ (CO) ₁₀ photolysis. <i>Journal of Organometallic Chemistry</i> , 2013, 724, 1-6.	0.8	8
60	Vibrational spectroscopy and 266 nm photochemistry of NCNCS and CNCN. <i>Chemical Physics Letters</i> , 2003, 380, 117-122.	1.2	7
61	Preparation and Characterization of Cr(CO) ₄ dpp (Chromium Tetracarbonyl 2,3-Bis(2-pyridyl)pyrazine) Adsorbed on Silver Nanoparticles. <i>Journal of Physical Chemistry B</i> , 2005, 109, 19657-19663.	1.2	7
62	Metal-free catalytic hydrogen production from a polymethylhydrosilane-water mixture. <i>RSC Advances</i> , 2016, 6, 5903-5906.	1.7	7
63	Highly-phosphorescent tungsten(0) carbonyl pyridyl-imidazole complexes as photosensitisers. <i>Dalton Transactions</i> , 2017, 46, 11008-11012.	1.6	7
64	The CN free radical in acetonitrile discharges. <i>Journal of Applied Physics</i> , 2003, 93, 9497-9502.	1.1	6
65	The CN and CS transient species in CH ₃ SCN discharges. <i>Chemical Physics</i> , 2004, 302, 171-177.	0.9	6
66	Significant O-H Bond Weakening in CpMn(CO) ₂ (CH ₃ OH): Evidence for the Generation of the CpMn(CO) ₂ (CH ₃ O) Radical upon H Atom Abstraction by O ₂ . <i>Organometallics</i> , 2013, 32, 4359-4365.	1.1	5
67	Hydrosilylation of Aldehydes by a Manganese η^2 -Diimine Complex. <i>Inorganics</i> , 2020, 8, 61.	1.2	5
68	Velocity and magnetic modulation methods applied to emission spectroscopy. <i>Chemical Physics Letters</i> , 1994, 230, 555-560.	1.2	4
69	Characterization of SiN and other transient species in a silicon tetrachloride-nitrogen discharge. <i>Chemical Physics Letters</i> , 2003, 367, 645-650.	1.2	4
70	FTIR studies on the gas phase laser-induced decomposition of CF ₃ CH ₂ ONO. <i>Chemical Physics</i> , 2006, 320, 259-266.	0.9	4
71	Methyl abstraction kinetics of CpFe(CO) ₂ Me using the benzyl radical clock. <i>Journal of Organometallic Chemistry</i> , 2006, 691, 687-692.	0.8	4
72	Infrared studies of halide binding with CpMn(CO) ₂ X complexes where X=ligands bearing the O-H or N-H group. <i>Journal of Organometallic Chemistry</i> , 2013, 729, 14-19.	0.8	4

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73	A persistent manganese carbonyl radical with infrared absorption and fluorescence modality. <i>Journal of Organometallic Chemistry</i> , 2014, 759, 11-14.	0.8	4
74	Reuleaux Triangle Disks: New Shape on the Block. <i>Journal of the American Chemical Society</i> , 2014, 136, 12840-12843.	6.6	4
75	FTIR and computational studies of gas-phase hydrogen atom abstraction kinetics by t-butoxy radical. <i>Chemical Physics Letters</i> , 2006, 427, 276-280.	1.2	3
76	Reactions of Cp*Ir(CO) ₂ with pentafluorobenzonitrile: Half-sandwich iridium complexes Cp*Ir(CO)(p-C ₆ F ₄ CN)(X). <i>Journal of Organometallic Chemistry</i> , 2013, 741-742, 176-180.	0.8	3
77	Proton reduction using cyclopentadienyl Fe(II) (benzene-1,2-dithiolato) carbonyl complexes as electrocatalysts. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 31976-31984.	3.8	3
78	Energy distributions of CO produced in an acetone-containing discharge. <i>Chemical Physics Letters</i> , 2004, 390, 323-327.	1.2	2
79	The reaction of [Cp*IrCl ₂] ₂ with 2-methyl-1-butene-3-yne: Formation of a η^3 -tetraenyl transition metal complex. <i>Journal of Organometallic Chemistry</i> , 2013, 739, 52-56.	0.8	2
80	Stable manganese carbonyl radicals as a rapid colorimetric thiol and hydrazine sensor. <i>RSC Advances</i> , 2015, 5, 15159-15163.	1.7	2
81	Computational modelling of singlet excitation energy transfer: a DFT/TD-DFT study of the ground and excited state properties of a syn bimane dimer system using non-empirically tuned range-separated functionals. <i>New Journal of Chemistry</i> , 2018, 42, 13732-13743.	1.4	2
82	Triphos nickel(II) halide pincer complexes as robust proton reduction electrocatalysts. <i>Molecular Catalysis</i> , 2020, 490, 110950.	1.0	2
83	Nickel(II) phosphine-catalysed hydrodehalogenation of aryl halides under mild ambient conditions. <i>Molecular Catalysis</i> , 2022, 524, 112310.	1.0	2
84	Catalytic rate enhancement observed for alkyne hydrocarboxylation using ruthenium carbonyl-capped nanostructures. <i>Journal of Colloid and Interface Science</i> , 2010, 348, 559-564.	5.0	1
85	The formation of aldehydes from the photochemically activated reaction of Cp*Ir(CO)(Cl)(CH ₂ R) complexes with water. <i>Journal of Organometallic Chemistry</i> , 2013, 724, 275-280.	0.8	1
86	Group VI transition metal carbonyl hydrosulfides Na[M(CO) ₅ (SH)] (M = Cr, Mo, W) as water-soluble H ₂ S-releasing agents. <i>RSC Advances</i> , 2015, 5, 10703-10706.	1.7	1
87	Photophysical properties of acetylene-linked <i>syn</i> bimane oligomers: a molecular photonic wire. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 1150-1163.	1.3	1
88	Dithiolato-Bridged Nickel(II) Salicylcysteamine Complexes as Robust Proton Reduction Electrocatalysts: Cyclic Voltammetry and Computational Studies. <i>Inorganic Chemistry</i> , 2021, 60, 17933-17941.	1.9	1
89	Computational study of molecular properties with dual basis sets. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 16566.	1.3	0
90	Tetrahedral Cu(I) complexes as electrocatalysts for the reduction of protons to dihydrogen gas. <i>European Journal of Inorganic Chemistry</i> , 2021, 2021, 2499-2504.	1.0	0