

Hitoshi Ishida

List of Publications by Year in descending order

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53
papers

3,642
citations

172457

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51
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59
all docs

59
docs citations

59
times ranked

4052
citing authors

#	ARTICLE	IF	CITATIONS
1	Reevaluation of absolute luminescence quantum yields of standard solutions using a spectrometer with an integrating sphere and a back-thinned CCD detector. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 9850.	2.8	850
2	Electrochemical CO ₂ reduction catalyzed by ruthenium complexes [Ru(bpy) ₂ (CO) ₂] ²⁺ and [Ru(bpy) ₂ (CO)Cl] ⁺ . Effect of pH on the formation of CO and HCOO ⁻ . <i>Organometallics</i> , 1987, 6, 181-186.	2.3	308
3	Recent advances in instrumentation for absolute emission quantum yield measurements. <i>Coordination Chemistry Reviews</i> , 2010, 254, 2449-2458.	18.8	297
4	Reaction mechanisms of catalytic photochemical CO ₂ reduction using Re(I) and Ru(II) complexes. <i>Coordination Chemistry Reviews</i> , 2018, 373, 333-356.	18.8	212
5	Photochemical carbon dioxide reduction catalyzed by bis(2,2'-bipyridine)dicarbonylruthenium(2+) using triethanolamine and 1-benzyl-1,4-dihydrnicotinamide as an electron donor. <i>Inorganic Chemistry</i> , 1990, 29, 905-911.	4.0	154
6	Catalytic Activity of Lanthanide(III) Ions for the Dehydration of Hexose to 5-Hydroxymethyl-2-furaldehyde in Water. <i>Bulletin of the Chemical Society of Japan</i> , 2001, 74, 1145-1150.	3.2	125
7	Isolation of intermediates in the water gas shift reactions catalyzed by [Ru(bpy) ₂ (CO)Cl] ⁺ and [Ru(bpy) ₂ (CO) ₂] ²⁺ . <i>Organometallics</i> , 1986, 5, 724-730.	2.3	118
8	Ligand effects of ruthenium 2,2'-bipyridine and 1,10-phenanthroline complexes on the electrochemical reduction of CO ₂ . <i>Journal of the Chemical Society Dalton Transactions</i> , 1990, , 2155-2160.	1.1	114
9	Photocatalytic CO ₂ Reduction in N,N-Dimethylacetamide/Water as an Alternative Solvent System. <i>Inorganic Chemistry</i> , 2014, 53, 3326-3332.	4.0	108
10	Unexpected effect of catalyst concentration on photochemical CO ₂ reduction by trans(Cl)Ru(bpy)(CO) ₂ Cl: new mechanistic insight into the CO/HCOO ⁻ selectivity. <i>Chemical Science</i> , 2015, 6, 3063-3074.	7.4	103
11	Selective formation of HCOO ⁻ in the electrochemical CO ₂ reduction catalysed by [Ru(bpy) ₂ (CO) ₂] ²⁺ (bpy = 2,2'-bipyridine). <i>Journal of the Chemical Society Chemical Communications</i> , 1987, , 131-132.	2.0	101
12	Highly Efficient Catalytic Activity of Lanthanide(III) Ions for Conversion of Saccharides to 5-Hydroxymethyl-2-furfural in Organic Solvents. <i>Chemistry Letters</i> , 2000, 29, 22-23.	1.3	100
13	Highly Effective Binding of Phosphomonoester with Neutral Cyclic Peptides which Include a Non-natural Amino Acid. <i>Journal of Organic Chemistry</i> , 1995, 60, 5374-5375.	3.2	66
14	Molecular Design and Synthesis of Artificial Ion Channels Based on Cyclic Peptides Containing Unnatural Amino Acids. <i>Journal of Organic Chemistry</i> , 2001, 66, 2978-2989.	3.2	65
15	Catalytic activity of lanthanide(III) ions for dehydration of d-glucose to 5-(hydroxymethyl) furfural. <i>Journal of Molecular Catalysis A</i> , 1996, 112, L163-L165.	4.8	61
16	Guidelines for measurement of luminescence spectra and quantum yields of inorganic and organometallic compounds in solution and solid state (IUPAC Technical Report). <i>Pure and Applied Chemistry</i> , 2016, 88, 701-711.	1.9	55
17	THE ELECTROCHEMICAL REDUCTION OF CO ₂ CATALYZED BY RUTHENIUM CARBONYL COMPLEXES. <i>Chemistry Letters</i> , 1985, 14, 405-406.	1.3	53
18	Diastereoselective Preparation and Characterization of Ruthenium Bis(bipyridine) Sulfoxide Complexes. <i>Inorganic Chemistry</i> , 2000, 39, 317-324.	4.0	51

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19	Novel Synthetic Routes to Several New, Differentially Substituted Ruthenium Tris(4,4'-disubstituted-2,2'-bipyridine) Complexes. <i>Inorganic Chemistry</i> , 2000, 39, 308-316.	4.0	48
20	<i>cis</i> -(Cl) $\{\text{Ru}(\text{5,5'-diamide-2,2'-bipyridine})(\text{CO})_2\text{Cl}\}_2$: Synthesis, Structure, and Photocatalytic CO_2 Reduction Activity. <i>Chemistry - A European Journal</i> , 2015, 21, 10049-10060.	3.3	46
21	Photochemical CO_2 Reduction by an NADH Model Compound in the Presence of $[\text{Ru}(\text{bpy})_3]^{2+}$ and $[\text{Ru}(\text{bpy})_2(\text{CO})_2]^{2+}$ (bpy = 2,2'-bipyridine) in H_2O / DMF. <i>Chemistry Letters</i> , 1988, 17, 339-342.	1.3	44
22	Photoreduction of CO_2 in the $[\text{Ru}(\text{bpy})_2(\text{CO})_2]^{2+}/[\text{Ru}(\text{bpy})_3]^{2+}$ or $[\text{Ru}(\text{phen})_3]^{2+}$ /Triethanolamine/ <i>N,N</i> -Dimethylformamide System. <i>Chemistry Letters</i> , 1987, 16, 1035-1038.	1.3	42
23	Preparation and structural elucidation of novel <i>cis</i> ruthenium(II) bis(bipyridine) sulfoxide complexes. <i>Journal of the Chemical Society Dalton Transactions</i> , 1999, , 3701-3709.	1.1	38
24	Photocatalytic CO_2 Reduction by Periodic Mesoporous Organosilica (PMO) Containing Two Different Ruthenium Complexes as Photosensitizing and Catalytic Sites. <i>Chemistry - A European Journal</i> , 2017, 23, 10301-10309.	3.3	38
25	Structure-Function Study on a de Novo Synthetic Hydrophobic Ion Channel. <i>Biophysical Journal</i> , 1999, 76, 631-641.	0.5	34
26	Molecular design of functional peptides by utilizing unnatural amino acids: Toward artificial and photofunctional protein. <i>Biopolymers</i> , 2004, 76, 69-82.	2.4	34
27	Serine proteinases mimics: hydrolytic activity of cyclic peptides which include a non-natural amino acid. <i>Tetrahedron Letters</i> , 1995, 36, 8987-8990.	1.4	33
28	Structural and photophysical characterisation of coordination and optical isomers of mononuclear ruthenium(II) polypyridyl 1,2,4-triazole complexes. Electronic supplementary information (ESI) available: analytical and semipreparative HPLC chromatograms, CD and UV/vis spectra. See http://www.rsc.org/suppdata/DT/B3/B301961F/ . <i>Dalton Transactions</i> , 2003, , 2597.	3.3	33
29	Stereoselective Formation of Chiral Metallopeptides. <i>Chemistry - A European Journal</i> , 2012, 18, 7030-7035.	3.3	30
30	Acid-Promoted Rearrangement of Carbonate Functionality Anchored to the Lower Rim of a Calix[4]arene Skeleton: A New Class of Chiral Calix[4]arene and Its Chiroptical Properties. <i>Organic Letters</i> , 2000, 2, 2237-2240.	4.6	29
31	The first asymmetric synthesis of chiral ruthenium tris(bipyridine) from racemic ruthenium bis(bipyridine) complexes. <i>Tetrahedron Letters</i> , 2000, 41, 2617-2620.	1.4	28
32	Artificial Metalloproteins with a Ruthenium Tris(bipyridyl) Complex as the Core. <i>ChemBioChem</i> , 2006, 7, 1567-1570.	2.6	25
33	Catalytic and stereoselective activities of manganese achiral and chiral porphyrins in dioxygenation of tryptophan derivatives. <i>Inorganic Chemistry</i> , 1992, 31, 2682-2688.	4.0	24
34	Interaction between CO_2 and Electrochemically Reduced Species of <i>N</i> -propyl-4,4'-bipyridinium Cation. <i>Chemistry Letters</i> , 1994, 23, 905-908.	1.3	24
35	High yield preparation of a novel tetrakis[ruthenium tris(bipyridine)]calix[6]arene derivative with good diastereomeric purity. <i>Tetrahedron: Asymmetry</i> , 1998, 9, 4089-4097.	1.8	20
36	Photophysical Properties of a Series of Ruthenium Selenide Cluster Complexes Containing Nitrogen Donor Ligands. <i>European Journal of Inorganic Chemistry</i> , 2014, 2014, 2254-2261.	2.0	20

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37	Photochemical CO ₂ Reduction Catalyzed by <i>trans</i> -(Cl)Ru(2,2'-bipyridine)(CO) ₂ Cl ₂ Bearing Two Methyl Groups at 4,4', 5,5'- or 6,6'-Positions in the Ligand. ChemPhotoChem, 2018, 2, 314-322.	4.6	18
38	Temperature dependence of photocatalytic CO ₂ reduction by <i>trans</i> -(Cl)Ru(bpy)(CO) ₂ Cl ₂ : activation energy difference between CO and formate production. Faraday Discussions, 2017, 198, 263-277.	3.2	12
39	Design of a Hybrid of Two α -Helix Peptides and Ruthenium Trisbipyridine Complex for Photo-induced Electron Transfer System in Bilayer Membrane. Chemistry Letters, 1992, 21, 1813-1816.	1.3	11
40	Synthesis and Ion Channel Formation of Novel Cyclic Peptides Containing a Non-natural Amino Acid. Chemistry Letters, 1997, 26, 953-954.	1.3	11
41	Photophysical Properties and Excitation Polarization of <i>trans</i> -Ruthenium Complexes with 5'-Amino-2,2'-bipyridine-5-carboxylic Acid Derivatives. Inorganic Chemistry, 2006, 45, 3756-3765.	4.0	11
42	Artificial peptides with unnatural components designed for materializing protein function. Biopolymers, 2000, 55, 469-478.	2.4	8
43	An Unnatural Amino Acid Bearing Bipyridyl Backbone: Selective Formation of <i>trans</i> -Isomers for Iron(II) Tris-chelate Complexes. Chemistry Letters, 2005, 34, 1554-1555.	1.3	8
44	Editorial: Molecular Catalysts for CO ₂ Fixation/Reduction. Frontiers in Chemistry, 2020, 8, 59.	3.6	8
45	Efficient Catalytic Hydrolysis of Disaccharides by Cerium(IV) Ion at pH 7. Chemistry Letters, 1997, 26, 379-380.	1.3	7
46	Synthesis of ruthenium tris(2,2'-bipyridine)-type complexes tethered to peptides at 5,5'-positions. Tetrahedron Letters, 2012, 53, 1249-1252.	1.4	5
47	Chain Reaction for Isomerization from <i>trans</i> -(Cl) to <i>cis</i> -(Cl)-Ru(bpy)(CO) ₂ Cl ₂ (bpy = 2,2'-Bipyridine) Induced by NaBH ₄ . European Journal of Inorganic Chemistry, 2012, 2012, 1167-1170.	2.0	5
48	Inside Cover: Stereoselective Formation of Chiral Metallopeptides (Chem. Eur. J. 23/2012). Chemistry - A European Journal, 2012, 18, 6990-6990.	3.3	2
49	Synthesis of 1,2,5-Oxadiazinane Derivatives by Photochemical Cycloaddition of Nitrones with Diaminomethanes. ChemPhotoChem, 2020, 4, 388-392.	3.0	2
50	Recent Trend in the Measurements of Luminescence Spectra and Quantum Yields of Metal Complexes. Bulletin of Japan Society of Coordination Chemistry, 2014, 64, 14-24.	0.2	1
51	Electrochemical/Photochemical CO ₂ Reduction Catalyzed by Transition Metal Complexes. , 2018, , .		1
52	Syntheses and Characterization of a Pair of Isomers of Heteroleptic Bis(Bidentate) Ruthenium(II) Complexes with Two Different Monodentate Ligands. Chemistry - A European Journal, 2019, 25, 16582-16590.	3.3	1
53	Biological approaches to artificial photosynthesis, fundamental processes and theoretical approaches: general discussion. Faraday Discussions, 2017, 198, 147-168.	3.2	0