Masanari Hirahara

List of Publications by Year
in descending order

28	404	759055 12	794469 19
papers	citations	h-index	g-index

29	29	29	515
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Mechanisms of Photoisomerization and Water-Oxidation Catalysis of Mononuclear Ruthenium(II) Monoaquo Complexes. Inorganic Chemistry, 2013, 52, 6354-6364.	1.9	67
2	Artificial Manganese Center Models for Photosynthetic Oxygen Evolution in Photosystem II. European Journal of Inorganic Chemistry, 2014, 2014, 595-606.	1.0	48
3	New Series of Dinuclear Ruthenium(II) Complexes Synthesized Using Photoisomerization for Efficient Water Oxidation Catalysis. Inorganic Chemistry, 2015, 54, 7627-7635.	1.9	37
4	Critical Hammett Electron-Donating Ability of Substituent Groups for Efficient Water Oxidation Catalysis by Mononuclear Ruthenium Aquo Complexes. Inorganic Chemistry, 2019, 58, 12716-12723.	1.9	27
5	Syntheses, characterization, and photochemical properties of amidate-bridged Pt(bpy) dimers tethered to Ru(bpy)32+ derivatives. Dalton Transactions, 2011, 40, 3967.	1.6	22
6	Photofunctional molecular assembly for artificial photosynthesis: Beyond a simple dye sensitization strategy. Coordination Chemistry Reviews, 2022, 467, 214624.	9.5	20
7	Synthesis, characterization and heterogeneous catalysis for water oxidation of a di-manganese complex with 4â€²-(4-pyridyl)-2,2â€²:6â€²,2â€³-terpyridine. Polyhedron, 2013, 52, 455-460.	1.0	18
8	Mechanisms and Factors Controlling Photoisomerization Equilibria, Ligand Exchange, and Water Oxidation Catalysis Capabilities of Mononuclear RuthenÂium(II) Complexes. European Journal of Inorganic Chemistry, 2015, 2015, 3892-3903.	1.0	16
9	Molecular Mimics of Heterogeneous Metal Phosphides: Thermochemistry, Hydrideâ€Proton Isomerism, and HER Reactivity. Angewandte Chemie - International Edition, 2018, 57, 16329-16333.	7.2	16
10	Characterization of the excited states of distal- and proximal-[Ru(tpy)(pynp)OH2]2+ in aqueous solution using time-resolved infrared spectroscopy. Journal of Photochemistry and Photobiology A: Chemistry, 2015, 313, 87-98.	2.0	15
11	Arrangement effect of the di-Î¼-oxo dimanganese catalyst and Ru(bpy)32+ photoexcitation centers adsorbed on mica for visible-light-derived water oxidation. Catalysis Science and Technology, 2013, 3, 1776.	2.1	14
12	Fabrication of Three-Layer-Component Organoclay Hybrid Films with Reverse Deposition Orders by a Modified Langmuirâ€“Schaefer Technique and Their Pyroelectric Currents Measured by a Noncontact Method. Langmuir, 2015, 31, 8346-8353.	1.6	14
13	Visibleâ€Lightâ€Induced Morphological Changes of Giant Vesicles by Photoisomerization of a Ruthenium Aqua Complex. Chemistry - A European Journal, 2016, 22, 2590-2594.	1.7	14
14	Intramolecular Hydrogen Bonding: A Key Factor Controlling the Photosubstitution of Ruthenium Complexes. Inorganic Chemistry, 2020, 59, 11273-11286.	1.9	13
15	Influence of chloro substituent on photoisomerization, redox reactions and water oxidation catalysis of mononuclear ruthenium complexes. Journal of Photochemistry and Photobiology A: Chemistry, 2015, 313, 117-125.	2.0	10
16	Photoisomerization of ruthenium(<scp>ii</scp>) aquo complexes: mechanistic insights and application development. Dalton Transactions, 2017, 46, 3787-3799.	1.6	10
17	Mechanistic Insight into Reversible Core Structural Changes of Dinuclear Î¼-Hydroxoruthenium(II) Complexes with a 2,8-Di-2-pyridyl-1,9,10-anthyridine Backbone Prior to Water Oxidation Catalysis. Inorganic Chemistry, 2017, 56, 10235-10246.	1.9	8
18	Photoisomerization and thermal isomerization of ruthenium aqua complexes with chloro-substituted asymmetric bidentate ligands. RSC Advances, 2019, 9, 2002-2010.	1.7	6

#	Article	IF	Citations
19	A multi-stimuli responsive ruthenium complex for catalytic water oxidation. Chemical Communications, 2020, 56, 12825-12828.	2.2	5
20	Efficient Electrocatalytic Water Oxidation by a Dinuclear Ruthenium(II) Complex with Vicinal Aquo and Hydroxo Groups Adsorbed on a TiO2 Electrode. ACS Applied Energy Materials, 2020, 3, 12172-12184.	2.5	5
21	Molecular Mimics of Heterogeneous Metal Phosphides: Thermochemistry, Hydrideâ€Proton Isomerism, and HER Reactivity. Angewandte Chemie, 2018, 130, 16567-16571.	1.6	4
22	Application of electrospray spreading to a modified Langmuirâ€“Blodgett technique for organo-clay hybrid film preparation. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 580, 123714.	2.3	4
23	Hybrid film formation of a water-insoluble quaternary alkylammonium cation with clay-mineral-layers. Thin Solid Films, 2017, 642, 377-383.	0.8	3
24	A visible-light and temperature responsive hostâ€“guest system: the photoisomerization and inclusion complex formation of a ruthenium complex with cyclodextrins. Dalton Transactions, 2022, 51, 4477-4483.	1.6	3
25	Mechanism of H ⁺ dissociationâ€“induced Oâ€“O bond formation via intramolecular coupling of vicinal hydroxo ligands on low-valent Ru(III) centers. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	3
26	A Synthetic Route to a Ruthenium Complex via Successive Photosubstitution Reactions. Inorganic Chemistry, 2021, 60, 13193-13199.	1.9	1
27	Bis(2,2â€²-bipyridine){ethyl 4â€²-[N-(4-carbamoylphenyl)carbamoyl]-2,2â€²-bipyridine-4-carboxylate}ruthenium(II) bis[hexafluoridophosphate(V)]. Acta Crystallographica Section E: Structure Reports Online, 2009, 65, m228-m229.	0.2	1
28	Influencing factors on heterogeneous water oxidation catalysis by di-Î¼-oxo dimanganese complex on mica as a synthetic model of photosystem II. Research on Chemical Intermediates, 2014, 40, 3199-3208.	1.3	0