Osamu Ishitani

List of Publications by Year
in descending order

206 papers	15,968 citations	12303 69 h-index	17546 121 g-index
215 all docs	215 docs citations	215 times ranked	9966 citing authors

#	Article	IF	Citations
1	Photocatalytic Systems for CO₂ Reduction: Metal-Complex Photocatalysts and Their Hybrids with Photofunctional Solid Materials. Accounts of Chemical Research, 2022, 55, 978-990.	7.6	60
2	From Pollutant to Chemical Feedstock: Valorizing Carbon Dioxide through Photo- and Electrochemical Processes. Accounts of Chemical Research, 2022, 55, 931-932.	7.6	13
3	Utilization of Low-Concentration CO₂ with Molecular Catalysts Assisted by CO₂-Capturing Ability of Catalysts, Additives, or Reaction Media. Journal of the American Chemical Society, 2022, 144, 6640-6660.	6.6	52
4	CO2 Reduction Using Molecular Photocatalysts. Springer Handbooks, 2022, , 1429-1452.	0.3	1
5	Researches on Photofunctional and Photocatalytic Chemistry of Metal Complexes as Core Materials. Bulletin of Japan Society of Coordination Chemistry, 2022, 79, 3-24.	0.1	0
6	Selective CO2 reduction into formate using Lnâ€“Ta oxynitrides combined with a binuclear Ru(II) complex under visible light. Journal of Energy Chemistry, 2021, 55, 176-182.	7.1	14
7	Durable photoelectrochemical CO₂ reduction with water oxidation using a visible-light driven molecular photocathode. Journal of Materials Chemistry A, 2021, 9, 1517-1529.	5.2	30
8	Mechanistic study of photocatalytic CO₂ reduction using a Ru(<scp>ii</scp>)â€“Re(<scp>i</scp>) supramolecular photocatalyst. Chemical Science, 2021, 12, 9682-9693.	3.7	26
9	Development of a panchromatic photosensitizer and its application to photocatalytic CO₂ reduction. Chemical Science, 2021, 12, 13888-13896.	3.7	20
10	Supramolecular photocatalysts fixed on the inside of the polypyrrole layer in dye sensitized molecular photocathodes: application to photocatalytic CO₂ reduction coupled with water oxidation. Chemical Science, 2021, 12, 13216-13232.	3.7	20
11	Molecule/Semiconductor Hybrid Materials for Visible-Light CO₂ Reduction: Design Principles and Interfacial Engineering. Accounts of Materials Research, 2021, 2, 458-470.	5.9	51
12	Determining Excited-State Structures and Photophysical Properties in Phenylphosphine Rhenium(I) Diimine Biscarbonyl Complexes Using Time-Resolved Infrared and X-ray Absorption Spectroscopies. Inorganic Chemistry, 2021, 60, 7773-7784.	1.9	5
13	Highly Functional Dinuclear Cu^I-Complex Photosensitizers for Photocatalytic CO₂Reduction. ACS Catalysis, 2021, 11, 11973-11984.	5.5	33
14	Synthesis and Light-Harvesting Functions of Ring-Shaped Re(I) Trinuclear Complexes Connected with an Emissive Ru(II) Complex. Jacs Au, 2021, 1, 294-307.	3.6	10
15	Photochemical H₂ Evolution Using a Ruâ€“Rh Supramolecular Photocatalyst. Energy & Fuels, 2021, 35, 19069-19080.	2.5	8
16	Efficient trinuclear Ru(<scp>ii</scp>)â€“Re(<scp>i</scp>) supramolecular photocatalysts for CO₂ reduction based on a new tris-chelating bridging ligand built around a central aromatic ring. Chemical Science, 2020, 11, 1556-1563.	3.7	51
17	Synthesis of Copolymerized Carbon Nitride Nanosheets from Urea and 2â€Aminobenzonitrile for Enhanced Visible Light CO₂ Reduction with a Ruthenium(II) Complex Catalyst. Solar Rrl, 2020, 4, 1900461.	3.1	13
18	Synthesis of a Novel Re(I)-Ru(II)-Re(I) Trinuclear Complex as an Effective Photocatalyst for CO2 Reduction. Bulletin of the Chemical Society of Japan, 2020, 93, 127-137.	2.0	14

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19	Factors determining formation efficiencies of one-electron-reduced species of redox photosensitizers. Journal of Chemical Physics, 2020, 153, 154302.	1.2	8
20	Photocatalysis of a Dinuclear Ru(II)â€"Re(I) Complex for CO₂ Reduction on a Solid Surface. Journal of the American Chemical Society, 2020, 142, 19249-19258.	6.6	57
21	Efficient Visible-Light-Driven CO₂ Reduction by a Cobalt Molecular Catalyst Covalently Linked to Mesoporous Carbon Nitride. Journal of the American Chemical Society, 2020, 142, 6188-6195.	6.6	199
22	Theoretical Insight into the Importance of a Carbamoyl Group in the Hydride Transfer from a Ruthenium Complex to a Pyridinium. Chemistry Letters, 2020, 49, 364-367.	0.7	1
23	A Ru(II)â€"Mn(I) Supramolecular Photocatalyst for CO₂ Reduction. Organometallics, 2020, 39, 1511-1518.	1.1	24
24	An Artificial Z-Scheme Constructed from Dye-Sensitized Metal Oxide Nanosheets for Visible Light-Driven Overall Water Splitting. Journal of the American Chemical Society, 2020, 142, 8412-8420.	6.6	103
25	Metal complexes and inorganic materials for solar fuel production. Dalton Transactions, 2020, 49, 6529-6531.	1.6	3
26	Effective Suppression of O2 Quenching of Photo-Excited Ruthenium Complex Using RNA Aptamer. Bulletin of the Chemical Society of Japan, 2020, 93, 1386-1392.	2.0	3
27	Photoelectrochemical CO₂ Reduction Using a Ru(II)â€"Re(I) Supramolecular Photocatalyst Connected to a Vinyl Polymer on a NiO Electrode. ACS Applied Materials & Interfaces, 2019, 11, 5632-5641.	4.0	70
28	Solar Water Oxidation by a Visibleâ€Lightâ€Responsive Tantalum/Nitrogenâ€Codoped Rutile Titania Anode for Photoelectrochemical Water Splitting and Carbon Dioxide Fixation. ChemPhotoChem, 2019, 3, 37-45.	1.5	34
29	Relaxation dynamics of [Re(CO)2(bpy){P(OEt)3}2](PF6) in TEOA solvent measured by time-resolved attenuated total reflection terahertz spectroscopy. Scientific Reports, 2019, 9, 11772.	1.6	6
30	Kinetics and Mechanism of Intramolecular Electron Transfer in Ru(II)â€"Re(I) Supramolecular CO₂â€"Reduction Photocatalysts: Effects of Bridging Ligands. Inorganic Chemistry, 2019, 58, 11480-11492.	1.9	38
31	Defect Density-Dependent Electron Injection from Excited-State Ru(II) Tris-Diimine Complexes into Defect-Controlled Oxide Semiconductors. Journal of Physical Chemistry C, 2019, 123, 28310-28318.	1.5	9
32	Synthesis of an Emissive Spectacle-Shaped Hexanuclear Rhenium(I) Complex. Inorganic Chemistry, 2019, 58, 12905-12910.	1.9	7
33	Electrocatalytic reduction of low concentration CO₂. Chemical Science, 2019, 10, 1597-1606.	3.7	62
34	Solar Water Oxidation by a Visible-Light-Responsive Tantalum/Nitrogen-Codoped Rutile Titania Anode for Photoelectrochemical Water Splitting and Carbon Dioxide Fixation. ChemPhotoChem, 2019, 3, 3-3.	1.5	1
35	CO₂ capture by Mn(<scp>i</scp>) and Re(<scp>i</scp>) complexes with a deprotonated triethanolamine ligand. Chemical Science, 2019, 10, 3080-3088.	3.7	35
36	Development of Visible-Light Driven Cu(I) Complex Photosensitizers for Photocatalytic CO2 Reduction. Frontiers in Chemistry, 2019, 7, 418.	1.8	38

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37	Earth-Abundant Molecular Z-Scheme Photoelectrochemical Cell for Overall Water-Splitting. Journal of the American Chemical Society, 2019, 141, 9593-9602.	6.6	84
38	Oxygenâ€Doped Ta₃N₅ Nanoparticles for Enhanced Zâ€Scheme Carbon Dioxide Reduction with a Binuclear Ruthenium(II) Complex under Visible Light. ChemPhotoChem, 2019, 3, 1027-1033.	1.5	10
39	Ruthenium Picolinate Complex as a Redox Photosensitizer With Wide-Band Absorption. Frontiers in Chemistry, 2019, 7, 327.	1.8	4
40	An Ir(III) Complex Photosensitizer With Strong Visible Light Absorption for Photocatalytic CO2 Reduction. Frontiers in Chemistry, 2019, 7, 259.	1.8	13
41	Direct Measurement of Intramolecular Electron Transfer in a Series of Artificial Photosynthesis Processes. EPJ Web of Conferences, 2019, 205, 09037.	0.1	0
42	Supramolecular Photocatalyst with a Rh(III)-Complex Catalyst Unit for CO₂ Reduction. ACS Sustainable Chemistry and Engineering, 2019, 7, 2648-2657.	3.2	26
43	A Visible-Light-Driven Z-Scheme CO2 Reduction System Using Ta3N5 and a Ru(II) Binuclear Complex. Bulletin of the Chemical Society of Japan, 2019, 92, 124-126.	2.0	24
44	Investigation of excited state, reductive quenching, and intramolecular electron transfer of Ru(<scp>ii</scp>)â€"Re(<scp>i</scp>) supramolecular photocatalysts for CO₂reduction using time-resolved IR measurements. Chemical Science, 2018, 9, 2961-2974.	3.7	53
45	Reaction mechanisms of catalytic photochemical CO2 reduction using Re(I) and Ru(II) complexes. Coordination Chemistry Reviews, 2018, 373, 333-356.	9.5	212
46	Visible-light CO₂ reduction over a ruthenium(<scp>ii</scp>)-complex/C₃N₄ hybrid photocatalyst: the promotional effect of silver species. Journal of Materials Chemistry A, 2018, 6, 9708-9715.	5.2	31
47	Ruthenium Trisâ€bipyridine Singleâ€Molecule Junctions with Multiple Joint Configurations. Chemistry - an Asian Journal, 2018, 13, 1297-1301.	1.7	6
48	Selective Electrocatalysis of a Water-Soluble Rhenium(I) Complex for CO₂ Reduction Using Water As an Electron Donor. ACS Catalysis, 2018, 8, 354-363.	5.5	57
49	Synthesis of Os(<scp>ii</scp>)â€"Re(<scp>i</scp>)â€"Ru(<scp>ii</scp>) hetero-trinuclear complexes and their photophysical properties and photocatalytic abilities. Chemical Science, 2018, 9, 1031-1041.	3.7	31
50	Highly Efficient and Robust Photocatalytic Systems for CO₂ Reduction Consisting of a Cu(I) Photosensitizer and Mn(I) Catalysts. Journal of the American Chemical Society, 2018, 140, 17241-17254.	6.6	141
51	Synthesis of Re(I) Rings Comprising Different Re(I) Units and Their Light-Harvesting Abilities. Inorganic Chemistry, 2018, 57, 15158-15171.	1.9	15
52	Copolymerization Approach to Improving Ru(II)-Complex/C₃N₄ Hybrid Photocatalysts for Visible-Light CO₂ Reduction. ACS Sustainable Chemistry and Engineering, 2018, 6, 15333-15340.	3.2	40
53	Effects of Interfacial Electron Transfer in Metal Complexâ€"Semiconductor Hybrid Photocatalysts on Z-Scheme CO₂ Reduction under Visible Light. ACS Catalysis, 2018, 8, 9744-9754.	5.5	60
54	Excited-State Dynamics of Graphitic Carbon Nitride Photocatalyst and Ultrafast Electron Injection to a Ru(II) Mononuclear Complex for Carbon Dioxide Reduction. Journal of Physical Chemistry C, 2018, 122, 16795-16802.	1.5	39

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55	Graphitic carbon nitride prepared from urea as a photocatalyst for visible-light carbon dioxide reduction with the aid of a mononuclear ruthenium(II) complex. Beilstein Journal of Organic Chemistry, 2018, 14, 1806-1812.	1.3	38
56	Undoped Layered Perovskite Oxynitride Li₂LaTa₂O₆N for Photocatalytic CO₂ Reduction with Visible Light. Angewandte Chemie, 2018, 130, 8286-8290.	1.6	17
57	Undoped Layered Perovskite Oxynitride Li₂LaTa₂O₆N for Photocatalytic CO₂ Reduction with Visible Light. Angewandte Chemie - International Edition, 2018, 57, 8154-8158.	7.2	66
58	A Stable, Narrow-Gap Oxyfluoride Photocatalyst for Visible-Light Hydrogen Evolution and Carbon Dioxide Reduction. Journal of the American Chemical Society, 2018, 140, 6648-6655.	6.6	139
59	Artificial photosynthesis â€" from sunlight to fuels and valuable products for a sustainable future. Sustainable Energy and Fuels, 2018, 2, 1891-1892.	2.5	11
60	A Carbon Nitride/Fe Quaterpyridine Catalytic System for Photostimulated CO₂-to-CO Conversion with Visible Light. Journal of the American Chemical Society, 2018, 140, 7437-7440.	6.6	160
61	Solar-driven Z-scheme water splitting using tantalum/nitrogen co-doped rutile titania nanorod as an oxygen evolution photocatalyst. Journal of Materials Chemistry A, 2017, 5, 11710-11719.	5.2	101
62	Supramolecular photocatalysts constructed with a photosensitizer unit with two tridentate ligands for CO2 reduction. Faraday Discussions, 2017, 198, 319-335.	1.6	10
63	Photochemical Processes in a Rhenium(I) Tricarbonyl N-Heterocyclic Carbene Complex Studied by Time-Resolved Measurements. Inorganic Chemistry, 2017, 56, 3404-3413.	1.9	32
64	Smart Network Polymers with Bis(piperidyl)naphthalene Cross-Linkers: Selective Fluorescence Quenching and Photodegradation in the Presence of Trichloromethyl-Containing Chloroalkanes. Macromolecules, 2017, 50, 3544-3556.	2.2	17
65	Inorganic assembly catalysts for artificial photosynthesis: general discussion. Faraday Discussions, 2017, 198, 481-507.	1.6	2
66	Molecular catalysts for artificial photosynthesis: general discussion. Faraday Discussions, 2017, 198, 353-395.	1.6	6
67	Supramolecular Photocatalysts for the Reduction of CO₂. ACS Catalysis, 2017, 7, 3394-3409.	5.5	219
68	Selectivity control between Mizorokiâ€"Heck and homo-coupling reactions for synthesising multinuclear metal complexes: unique addition effects of tertiary phosphines and O₂. Dalton Transactions, 2017, 46, 4816-4823.	1.6	6
69	Hybrid photocathode consisting of a CuGaO₂ p-type semiconductor and a Ru(<scp>ii</scp>)â€"Re(<scp>i</scp>) supramolecular photocatalyst: non-biased visible-light-driven CO₂ reduction with water oxidation. Chemical Science, 2017, 8, 4242-4249.	3.7	136
70	Robust Binding between Carbon Nitride Nanosheets and a Binuclear Ruthenium(II) Complex Enabling Durable, Selective CO₂ Reduction under Visible Light in Aqueous Solution. Angewandte Chemie, 2017, 129, 4945-4949.	1.6	52
71	Robust Binding between Carbon Nitride Nanosheets and a Binuclear Ruthenium(II) Complex Enabling Durable, Selective CO₂ Reduction under Visible Light in Aqueous Solution. Angewandte Chemie - International Edition, 2017, 56, 4867-4871.	7.2	223
72	Photofunctional multinuclear rhenium(<scp>i</scp>) diimine carbonyl complexes. Dalton Transactions, 2017, 46, 8899-8919.	1.6	32

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73	Modulation of the Photophysical, Photochemical, and Electrochemical Properties of Re(I) Diimine Complexes by Interligand Interactions. Accounts of Chemical Research, 2017, 50, 2673-2683.	7.6	29
74	Solar Water Splitting Utilizing a SiC Photocathode, a BiVO₄ Photoanode, and a Perovskite Solar Cell. ChemSusChem, 2017, 10, 4420-4423.	3.6	24
75	Integration of systems for demonstrating realistic devices: general discussion. Faraday Discussions, 2017, 198, 539-547.	1.6	0
76	Interfacial Manipulation by Rutile TiO₂ Nanoparticles to Boost CO₂ Reduction into CO on a Metal-Complex/Semiconductor Hybrid Photocatalyst. ACS Applied Materials & Interfaces, 2017, 9, 23869-23877.	4.0	69
77	Electrons, Photons, Protons and Earth-Abundant Metal Complexes for Molecular Catalysis of CO₂ Reduction. ACS Catalysis, 2017, 7, 70-88.	5.5	558
78	Activation of the Carbon Nitride Surface by Silica in a COâ€Evolving Hybrid Photocatalyst. ChemSusChem, 2017, 10, 287-295.	3.6	36
79	Nature-Inspired, Highly Durable CO₂ Reduction System Consisting of a Binuclear Ruthenium(II) Complex and an Organic Semiconductor Using Visible Light. Journal of the American Chemical Society, 2016, 138, 5159-5170.	6.6	403
80	A Z-scheme photocatalyst constructed with an yttriumâ€“tantalum oxynitride and a binuclear Ru(<scp>ii</scp>) complex for visible-light CO₂ reduction. Chemical Communications, 2016, 52, 7886-7889.	2.2	54
81	High catalytic abilities of binuclear rhenium(<scp>i</scp>) complexes in the photochemical reduction of CO₂ with a ruthenium(<scp>ii</scp>) photosensitiser. Dalton Transactions, 2016, 45, 14668-14677.	1.6	31
82	Iridium(III) 1-Phenylisoquinoline Complexes as a Photosensitizer for Photocatalytic CO₂ Reduction: A Mixed System with a Re(I) Catalyst and a Supramolecular Photocatalyst. Inorganic Chemistry, 2016, 55, 5702-5709.	1.9	103
83	Design and Synthesis of Heteroleptic Cyclometalated Iridium(III) Complexes Containing Quinoline-Type Ligands that Exhibit Dual Phosphorescence. Inorganic Chemistry, 2016, 55, 3829-3843.	1.9	57
84	Structural deformation of a ring-shaped Re(I) diimine dinuclear complex in the excited state. Chemical Physics Letters, 2016, 662, 120-126.	1.2	8
85	Photochemical Hydrogenation of Ï€-Conjugated Bridging Ligands in Photofunctional Multinuclear Complexes. Inorganic Chemistry, 2016, 55, 11110-11124.	1.9	25
86	Photocatalytic Reduction of Low Concentration of CO₂. Journal of the American Chemical Society, 2016, 138, 13818-13821.	6.6	179
87	Photoelectrochemical Reduction of CO₂ Coupled to Water Oxidation Using a Photocathode with a Ru(II)â€“Re(I) Complex Photocatalyst and a CoO_{<i>x</i>}/TaON Photoanode. Journal of the American Chemical Society, 2016, 138, 14152-14158.	6.6	260
88	Rhenium(<scp>i</scp>) trinuclear rings as highly efficient redox photosensitizers for photocatalytic CO₂ reduction. Chemical Science, 2016, 7, 6728-6739.	3.7	65
89	Photocatalytic Activity of Carbon Nitride Modified with a Ruthenium(II) Complex Having Carboxylic- or Phosphonic Acid Anchoring Groups for Visible-light CO₂ Reduction. Chemistry Letters, 2016, 45, 182-184.	0.7	45
90	Theoretical study on mechanism of the photochemical ligand substitution of fac-[Re^I(bpy)(CO)₃(PR₃)]⁺ complex. Physical Chemistry Chemical Physics, 2016, 18, 17557-17564.	1.3	16

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91	Visible-light-driven CO₂ reduction on a hybrid photocatalyst consisting of a Ru(<scp>ii</scp>) binuclear complex and a Ag-loaded TaON in aqueous solutions. Chemical Science, 2016, 7, 4364-4371.	3.7	96
92	Photocatalytic CO₂ Reduction Using Cu(I) Photosensitizers with a Fe(II) Catalyst. Journal of the American Chemical Society, 2016, 138, 4354-4357.	6.6	258
93	Unique Solvent Effects on Visible-Light CO₂ Reduction over Ruthenium(II)-Complex/Carbon Nitride Hybrid Photocatalysts. ACS Applied Materials & Interfaces, 2016, 8, 6011-6018.	4.0	118
94	Photocatalyses of Ru(II)â€"Re(I) binuclear complexes connected through two ethylene chains for CO2 reduction. Journal of Catalysis, 2016, 343, 278-289.	3.1	38
95	Highly efficient visible-light-driven CO₂ reduction to CO using a Ru(<scp>ii</scp>)â€"Re(<scp>i</scp>) supramolecular photocatalyst in an aqueous solution. Green Chemistry, 2016, 18, 139-143.	4.6	78
96	Photoelectrochemical CO₂ reduction using a Ru(<scp>ii</scp>)â€"Re(<scp>i</scp>) multinuclear metal complex on a p-type semiconducting NiO electrode. Chemical Communications, 2015, 51, 10722-10725.	2.2	131
97	Selective Formic Acid Production via CO₂ Reduction with Visible Light Using a Hybrid of a Perovskite Tantalum Oxynitride and a Binuclear Ruthenium(II) Complex. ACS Applied Materials & Interfaces, 2015, 7, 13092-13097.	4.0	120
98	Intercalation of Highly Dispersed Metal Nanoclusters into a Layered Metal Oxide for Photocatalytic Overall Water Splitting. Angewandte Chemie - International Edition, 2015, 54, 2698-2702.	7.2	117
99	Photocatalytic CO₂ Reduction to Formic Acid Using a Ru(II)â€"Re(I) Supramolecular Complex in an Aqueous Solution. Inorganic Chemistry, 2015, 54, 1800-1807.	1.9	144
100	Intercalation of Highly Dispersed Metal Nanoclusters into a Layered Metal Oxide for Photocatalytic Overall Water Splitting. Angewandte Chemie, 2015, 127, 2736-2740.	1.6	17
101	Hybrids of a Ruthenium(II) Polypyridyl Complex and a Metal Oxide Nanosheet for Dye-Sensitized Hydrogen Evolution with Visible Light: Effects of the Energy Structure on Photocatalytic Activity. ACS Catalysis, 2015, 5, 1700-1707.	5.5	83
102	Visibleâ€Lightâ€Driven CO₂ Reduction with Carbon Nitride: Enhancing the Activity of Ruthenium Catalysts. Angewandte Chemie, 2015, 127, 2436-2439.	1.6	92
103	Efficient Photocatalysts for CO₂ Reduction. Inorganic Chemistry, 2015, 54, 5096-5104.	1.9	208
104	Visibleâ€Lightâ€Driven CO₂ Reduction with Carbon Nitride: Enhancing the Activity of Ruthenium Catalysts. Angewandte Chemie - International Edition, 2015, 54, 2406-2409.	7.2	540
105	Ru(<scp>ii</scp>)â€"Re(<scp>i</scp>) binuclear photocatalysts connected by â€"CH₂XCH₂â€" (X = O, S, CH₂) for CO₂ reduction. Chemical Science, 2015, 6, 3003-3012.	3.7	69
106	Emission spectroscopy of a ruthenium(<scp>ii</scp>) polypyridyl complex adsorbed on calcium niobate lamellar solids and nanosheets. Physical Chemistry Chemical Physics, 2015, 17, 17962-17966.	1.3	10
107	Synthesis of novel photofunctional multinuclear complexes using a coupling reaction. Dalton Transactions, 2015, 44, 11626-11635.	1.6	14
108	Highly efficient, selective, and durable photocatalytic system for CO₂ reduction to formic acid. Chemical Science, 2015, 6, 7213-7221.	3.7	119

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109	Photocatalytic reduction of CO2 using metal complexes. Journal of Photochemistry and Photobiology C: Photochemistry Reviews, 2015, 25, 106-137.	5.6	440
110	Bias-Dependent Oxidative or Reductive Quenching of a Molecular Excited-State Assembly Bound to a Transparent Conductive Oxide. Journal of Physical Chemistry C, 2015, 119, 25180-25187.	1.5	11
111	Trinuclear and Tetranuclear Re(I) Rings Connected with Phenylene, Vinylene, and Ethynylene Chains: Synthesis, Photophysics, and Redox Properties. Inorganic Chemistry, 2015, 54, 8769-8777.	1.9	25
112	Metal-complex/semiconductor hybrids for carbon dioxide fixation. , 2015, , .		2
113	Synthesis and strong photooxidation power of a supramolecular hybrid comprising a polyoxometalate and Ru(<scp>ii</scp>) polypyridyl complex with zinc(<scp>ii</scp>). Faraday Discussions, 2015, 185, 171-185.	1.6	3
114	Natural and artificial photosynthesis: general discussion. Faraday Discussions, 2015, 185, 187-217.	1.6	3
115	Hydride Reduction of NAD(P)⁺ Model Compounds with a Ru(II)â€“Hydrido Complex. Organometallics, 2015, 34, 5530-5539.	1.1	13
116	A Visibleâ€Light Harvesting System for CO₂ Reduction Using a Ru^{II}â€“Re^I Photocatalyst Adsorbed in Mesoporous Organosilica. ChemSusChem, 2015, 8, 439-442.	3.6	80
117	Photochemical reactions of fac-rhenium(I) tricarbonyl complexes and their application for synthesis. Coordination Chemistry Reviews, 2015, 282-283, 50-59.	9.5	61
118	Efficient light harvesting via sequential two-step energy accumulation using a Ruâ€“Re5 multinuclear complex incorporated into periodic mesoporous organosilica. Chemical Science, 2014, 5, 639-648.	3.7	48
119	Photocatalytic CO₂reduction using a Mn complex as a catalyst. Chemical Communications, 2014, 50, 1491-1493.	2.2	220
120	Fluorescent poly(boron enaminoketonate)s: synthesis via the direct modification of polyisoxazoles obtained from the click polymerization of a homoditopic nitrile N-oxide and diynes. Polymer Journal, 2014, 46, 609-616.	1.3	20
121	Nonâ€Sacrificial Water Photoâ€Oxidation Activity of Lamellar Calcium Niobate Induced by Exfoliation. Advanced Materials Interfaces, 2014, 1, 1400131.	1.9	30
122	The effect of the pore-wall structure of carbon nitride on photocatalytic CO₂reduction under visible light. Journal of Materials Chemistry A, 2014, 2, 15146-15151.	5.2	192
123	Ring-Shaped Rhenium(I) Multinuclear Complexes: Improved Synthesis and Photoinduced Multielectron Accumulation. Inorganic Chemistry, 2014, 53, 7170-7180.	1.9	36
124	Hybridization between Periodic Mesoporous Organosilica and a Ru(II) Polypyridyl Complex with Phosphonic Acid Anchor Groups. ACS Applied Materials & Interfaces, 2014, 6, 1992-1998.	4.0	21
125	Photochemical Reduction of CO2 with Red Light Using Synthetic Chlorophyllâ€“Rhenium Bipyridine Dyad. Chemistry Letters, 2014, 43, 1383-1385.	0.7	25
126	4ï¼Žä»¤å·¥å…‰åˆæˆã'ç›®æŒ‡ã—ãŸCO2é‚„å…ƒå…‰è§¦åª’ã®é–‹ç™ºâ€"é‡'å±žéŒ¯ä½"ã•åŠå°Žä½"ã®èžåˆâ€". Electrochemistry, 201	0.6	0

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127	Fluorescence Control of Boron Enaminoketonate Using a Rotaxane Shuttle. Organic Letters, 2013, 15, 4686-4689.	2.4	43
128	Ring-Shaped Re(I) Multinuclear Complexes with Unique Photofunctional Properties. Journal of the American Chemical Society, 2013, 135, 13266-13269.	6.6	115
129	Red-Light-Driven Photocatalytic Reduction of CO₂ using Os(II)â€"Re(I) Supramolecular Complexes. Inorganic Chemistry, 2013, 52, 11902-11909.	1.9	103
130	CO₂ Capture by a Rhenium(I) Complex with the Aid of Triethanolamine. Journal of the American Chemical Society, 2013, 135, 16825-16828.	6.6	208
131	A polymeric-semiconductorâ€"metal-complex hybrid photocatalyst for visible-light CO2 reduction. Chemical Communications, 2013, 49, 10127.	2.2	252
132	A Highly Efficient Mononuclear Iridium Complex Photocatalyst for CO₂ Reduction under Visible Light. Angewandte Chemie - International Edition, 2013, 52, 988-992.	7.2	277
133	Selective H2 and CO production with rhenium(I) biscarbonyl complexes as photocatalyst. Research on Chemical Intermediates, 2013, 39, 437-447.	1.3	11
134	Artificial Z-Scheme Constructed with a Supramolecular Metal Complex and Semiconductor for the Photocatalytic Reduction of CO₂. Journal of the American Chemical Society, 2013, 135, 4596-4599.	6.6	404
135	Substantial improvement in the efficiency and durability of a photocatalyst for carbon dioxide reduction using a benzoimidazole derivative as an electron donor. Journal of Catalysis, 2013, 304, 22-28.	3.1	220
136	Formation of Î·²-Coordinated Dihydropyridineâ€"Ruthenium(II) Complexes by Hydride Transfer from Ruthenium(II) to Pyridinium Cations. Organometallics, 2013, 32, 6162-6165.	1.1	11
137	Photocatalytic CO ₂ reduction with high turnover frequency and selectivity of formic acid formation using Ru(II) multinuclear complexes. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 15673-15678.	3.3	289
138	Photochemistry of <i>fac</i>â€[Re(bpy)(CO)₃Cl]. Chemistry - A European Journal, 2012, 18, 15722-15734.	1.7	74
139	Development of highly efficient supramolecular CO₂reduction photocatalysts with high turnover frequency and durability. Faraday Discussions, 2012, 155, 115-127.	1.6	133
140	Dual Emission from Rhenium(I) Complexes Induced by an Interligand Aromatic Interaction. Chemistry - A European Journal, 2012, 18, 3292-3304.	1.7	33
141	Photochemical Reduction of CO₂ Using TiO₂: Effects of Organic Adsorbates on TiO₂ and Deposition of Pd onto TiO₂. ACS Applied Materials & Interfaces, 2011, 3, 2594-2600.	4.0	291
142	Photocatalytic Reduction of CO2: From Molecules to Semiconductors. Topics in Current Chemistry, 2011, 303, 151-184.	4.0	104
143	Photochemistry and photocatalysis of rhenium(I) diimine complexes. Advances in Inorganic Chemistry, 2011, , 137-186.	0.4	82
144	Development of efficient photocatalytic systems for CO2 reduction using mononuclear and multinuclear metal complexes based on mechanistic studies. Coordination Chemistry Reviews, 2010, 254, 346-354.	9.5	486

#	Article	IF	Citations
145	Enhanced Photocatalysis of Rhenium(I) Complex by Light-Harvesting Periodic Mesoporous Organosilica. Inorganic Chemistry, 2010, 49, 4554-4559.	1.9	130
146	Development of an Efficient and Durable Photocatalytic System for Hydride Reduction of an NAD(P)⁺ Model Compound Using a Ruthenium(II) Complex Based on Mechanistic Studies. Journal of the American Chemical Society, 2010, 132, 10547-10552.	6.6	35
147	New Light-Harvesting Molecular Systems Constructed with a Ru(II) Complex and a Linear-Shaped Re(I) Oligomer. Journal of the American Chemical Society, 2010, 132, 11743-11752.	6.6	54
148	Architecture of supramolecular metal complexes for photocatalytic CO2 reduction. Journal of Photochemistry and Photobiology A: Chemistry, 2009, 207, 109-114.	2.0	136
149	Quantitative Photochemical Formation of [Ru(tpy)(bpy)H]⁺. Inorganic Chemistry, 2009, 48, 10138-10145.	1.9	12
150	Electron Transfer from the Porphyrin S₂ State in a Zinc Porphyrin-Rhenium Bipyridyl Dyad having Carbon Dioxide Reduction Activity. Journal of Physical Chemistry C, 2009, 113, 11667-11673.	1.5	86
151	Synthesis and properties of a novel tripodal bipyridyl ligand tb-carbinol and its Ru(II)â€“Re(I) trimetallic complexes: investigation of multimetallic artificial systems for photocatalytic CO₂reduction. Dalton Transactions, 2009, , 983-993.	1.6	65
152	Highly Efficient CO2 Reduction Using Metal Complexes as Photocatalyst. Yuki Gosei Kagaku Kyokaishi/Journal of Synthetic Organic Chemistry, 2009, 67, 486-493.	0.0	8
153	Systematic Synthesis, Isolation, and Photophysical Properties of Linear-Shaped Re(I) Oligomers and Polymers with 2â^'20 Units. Journal of the American Chemical Society, 2008, 130, 14659-14674.	6.6	48
154	A Novel Tripodal Ligand, Tris[(4â€²-methyl-2,2â€²-bipyridyl-4-yl)methyl]carbinol and Its Trinuclear RuII/ReIMixed-Metal Complexes: Synthesis, Emission Properties, and Photocatalytic CO2Reduction. Inorganic Chemistry, 2008, 47, 10801-10803.	1.9	71
155	Development of an Efficient Photocatalytic System for CO₂ Reduction Using Rhenium(I) Complexes Based on Mechanistic Studies. Journal of the American Chemical Society, 2008, 130, 2023-2031.	6.6	571
156	Photochemical Synthesis of <i>mer</i>-[Re(bpy)(CO)₃Cl]. Inorganic Chemistry, 2007, 46, 9051-9053.	1.9	55
157	Highly efficient supramolecular photocatalysts for CO2reduction using visible light. Photochemical and Photobiological Sciences, 2007, 6, 454-461.	1.6	136
158	Photochemical Ligand Substitution Reactions of fac-[Re(bpy)(CO)3Cl] and Derivatives. Inorganic Chemistry, 2007, 46, 3531-3540.	1.9	67
159	Photocatalytic reduction of CO2 using cis,trans-[Re(dmbpy)(CO)2(PR3)(PRâ€™3)]+ (dmbpy=4,4â€²-dimethyl-2,2â€²-bipyridine). Research on Chemical Intermediates, 2007, 33, 37-48.	1.3	34
160	Analysis and Isolation of Cationic Rhenium(I) and Ruthenium(II) Multinuclear Complexes Using Size-Exclusion Chromatography. Analytical Sciences, 2006, 22, 545-549.	0.8	24
161	Reaction of an NAD(P)+ model compound coordinated to a transition metal complex with ruthenium and rhenium hydrido complexes. Inorganic Chemistry Communication, 2005, 8, 365-367.	1.8	9
162	Architecture of Supramolecular Metal Complexes for Photocatalytic CO2 Reduction:â€‰ Rutheniumâ^'Rhenium Bi- and Tetranuclear Complexes. Inorganic Chemistry, 2005, 44, 2326-2336.	1.9	337

#	Article	IF	Citations
163	Control of Photochemical, Photophysical, Electrochemical, and Photocatalytic Properties of Rhenium(I) Complexes Using Intramolecular Weak Interactions between Ligands. Journal of the American Chemical Society, 2005, 127, 15544-15555.	6.6	134
164	Transition Metal Complexes Coordinated by an NAD(P)H Model Compound and their Enhanced Hydride-Donating Abilities in the Presence of a Base. Chemistry - A European Journal, 2005, 11, 4219-4226.	1.7	46
165	Effect of intramolecular Ï€â€"Ï€ and CHâ€"Ï€ interactions between ligands on structure, electrochemical and spectroscopic properties of fac-[Re(bpy)(CO)3(PR3)]+(bpy = 2,2â€²-bipyridine; PR3= trialkyl or) Tj ETQq1 1 0.784314 rgBT /Overlo	1.6	39
166	Dinitrogen Formation by Oxidative Intramolecular N---N Coupling incis,cis-[(bpy)2(NH3)RuORu(NH3)(bpy)2]4+. Inorganic Chemistry, 2003, 42, 1707-1710.	1.9	24
167	Study of the Ligand Substitution Reactions ofcis,cis-[(bpy)2(L)RuORu(Lâ€˜)(bpy)2]n+(L, Lâ€˜ = H2O, OH-, NH3) Using Electrospray Ionization Mass Spectrometry and1H NMR. Inorganic Chemistry, 2002, 41, 3749-3754.	1.9	6
168	Mechanism of the Photochemical Ligand Substitution Reactions of fac-[Re(bpy)(CO)3(PR3)]+ Complexes and the Properties of Their Triplet Ligand-Field Excited States. Journal of the American Chemical Society, 2002, 124, 11448-11455.	6.6	149
169	Development of an automatic continuous analyzer for water-soluble gases in air by combining an artificial lung with an ion chromatograph. Atmospheric Environment, 2002, 36, 441-448.	1.9	3
170	Synthesis, spectroscopic characterization, electrochemical and photochemical properties of ruthenium(II) polypyridyl complexes with a tertiary amine ligand. Polyhedron, 2002, 21, 61-68.	1.0	10
171	Formation of Novel 1:1 Adducts Accompanied by Regioselective Hydride Transfer from Transition-Metal Hydrido Complexes to NAD(P) Models. Organometallics, 2001, 20, 3361-3363.	1.1	24
172	Application of an integrated prepstation-GC-NPD system to automated continuous measurement of formaldehyde and acetaldehyde in the atmosphere. Journal of Environmental Monitoring, 2001, 3, 654-660.	2.1	7
173	Synthesis of a linear-shaped tetramer and trimers of rhenium(i) diimine complexes. Chemical Communications, 2001, , 1514-1515.	2.2	26
174	Emission Control of SO2 by Dry Coal-Cleaning and Bio-Briquette Technology. Water, Air, and Soil Pollution, 2001, 130, 253-258.	1.1	3
175	Study on Dry Deposition of SO2-NOX onto Loess. Water, Air, and Soil Pollution, 2001, 130, 541-546.	1.1	7
176	Photocatalytic Reduction of Acetylpyridine to Pinacol Using [fac-Re(bpy)(CO)3{4-(MeCO)py}]+(bpy =) Tj ETQq0 0 0 rgBT /Overlock 10 T	0.7	4
177	Regiospecific Hydride Transfer fromcis-[Ru(bpy)2(CO)(CHO)]+ to NAD+ Model Compounds: A Model for Enzymatic Reactions by Aldehyde Dehydrogenases. Angewandte Chemie - International Edition, 2000, 39, 4061-4063.	7.2	20
178	Synthesis and properties of [Ru(tpy)(4,4â€²-X2bpy)H]+ (tpy=2,2â€²:6â€²,2â€³-terpyridine, bpy=2,2â€²-bipyridine, X=H and) Tj ETQq0 0	1.2	82
179	New Synthetic Routes to Biscarbonylbipyridinerhenium(I) Complexescis,trans-[Re(X2bpy)(CO)2(PR3)(Y)]n+(X2bpy = 4,4â€˜-X2-2,2â€˜-bipyridine) via Photochemical Ligand Substitution Reactions, and Their Photophysical and Electrochemical Properties. Inorganic Chemistry, 2000, 39, 2777-2783.	1.9	95
180	Photocatalytic reduction of carbon dioxide using [fac-Re(bpy)(CO)3(4-Xpy)]+ (Xpy=pyridine) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62 Td	2.0	70

#	Article	IF	Citations
181	Electrospray Mass Spectrometric Detection of Neutral Metal Bipyridine Complexes Using Sodium Ions and Its Application in the Analysis of a Photochemical Ligand Substitution Reaction.. Analytical Sciences, 1998, 14, 287-292.	0.8	11
182	Photoinduced Formation of [fac-Re(bpy)(CO)3CN] from [fac-Re(bpy)(CO)3(4-CNpy)]+(bpy = 2,2â€²-bipyridine,) Tj ETQq0 0 0 rgBT /Ove Letters, 1997, 26, 1249-1250.	0.7	4
183	Electrospray Mass Spectrometric Detection of Neutral Rhenium Bipyridine Complexes Using NaNO3as an Ionization Agent. Chemistry Letters, 1997, 26, 273-274.	0.7	17
184	Photochemistry of [Re(bipy)(CO)3(PPh3)]+ (bipyâ€…=â€…2,2â€²-bipyridine) in the presence of triethanolamine associated with photoreductive fixation of carbon dioxide: participation of a chain reaction mechanism. Journal of the Chemical Society Dalton Transactions, 1997, , 1019-1024.	1.1	86
185	Key Process of the Photocatalytic Reduction of CO2Using [Re(4,4â€˜-X2-bipyridine)(CO)3PR3]+(X = CH3, H,) Tj ETQq1 1 0.784314 rgBT Organometallics, 1997, 16, 5724-5729.	1.1	138
186	Preparation and characterization of [Re(bpy)(CO) 3L][SbF6] (L = phosphine, phosphite). Journal of Organometallic Chemistry, 1997, 530, 169-176.	0.8	57
187	Formation of Dinitrogen by Oxidation of [(bpy)2(NH3)RuORu(NH3)(bpy)2]4+. Inorganic Chemistry, 1996, 35, 2167-2168.	1.9	39
188	Electrospray Mass Spectrometric Detection of Unstable Rhenium Complexes as Reaction Intermediates of Photochemical CO2-Fixation. Analytical Sciences, 1996, 12, 587-590.	0.8	12
189	Efficient photocatalytic CO2 reduction using [Re(bpy) (CO)3{P(OEt)3}]+. Journal of Photochemistry and Photobiology A: Chemistry, 1996, 96, 171-174.	2.0	188
190	Efficient carbon dioxide photoreduction by novel metal complexes and its reaction mechanisms. Energy Conversion and Management, 1995, 36, 621-624.	4.4	12
191	High Performance Liquid Chromatographic Isolation and Characterization of (Pheophytin)Mercury(II). Journal of Liquid Chromatography and Related Technologies, 1995, 18, 779-789.	0.9	1
192	Photophysical Behavior of a New CO2 Reduction Catalyst, Re(CO)2(bpy){P(OEt)3}2+. Inorganic Chemistry, 1994, 33, 4712-4717.	1.9	120
193	A novel type of hydride-transfer photocatalysis by RuIIâ€"pyridine complexes: regiocontrolled reduction of an NAD(P) model compound by triethylamine. Journal of the Chemical Society Chemical Communications, 1994, , 367-368.	2.0	25
194	Special Articles: Environmental Sciences and Analytical Chemistry. Simple and rapid preparation method of standard samples of pheophytins.. Bunseki Kagaku, 1994, 43, 939-945.	0.1	1
195	Photocatalytic reduction of carbon dioxide to methane and acetic acid by an aqueous suspension of metal-deposited TiO2. Journal of Photochemistry and Photobiology A: Chemistry, 1993, 72, 269-271.	2.0	194
196	PHOTOSENSITIZED REACTIONS BY [Re(bpy)(CO)3X]. , 1991, , 177-186.		5
197	Novel visible-light-driven photocatalyst. Poly(p-phenylene)-catalyzed photoreductions of water, carbonyl compounds, and olefins. The Journal of Physical Chemistry, 1990, 94, 2068-2076.	2.9	134
198	A New Mechanistic Channel for Photochemical Electron Transfer of Tris(2,2â€²-bipyridine)ruthenium(II) with Triethylamine. Possible Participation of a Nonemitting Excited State. Chemistry Letters, 1989, 18, 217-220.	0.7	8

#	Article	IF	Citations
199	ELECTRONâ€TRANSFER ORGANIC AND BIOORGANIC PHOTOCHEMISTRY. Photochemistry and Photobiology, 1988, 48, 767-785.	1.3	42
200	Redox-Photosensitized Reactions. XIV. Photochemistry of 4-Alkylated NADH Models, 1-Benzyl-4-(1-hydroxyalkyl)-1,4-dihydronicotinamides. Bulletin of the Chemical Society of Japan, 1987, 60, 1801-1805.	2.0	6
201	Redox-Photosensitized Reactions. XV. Photosensitized and Direct Photolytic Isomerizations of the Tetrahydro Dimers of 1-Benzylnicotinamide. Bulletin of the Chemical Society of Japan, 1987, 60, 2419-2422.	2.0	3
202	Redox-photosensitized reactions. 13. Ru(bpy)32+-photosensitized reactions of an NADH model, 1-benzyl-1,4-dihydronicotinamide, with aromatic carbonyl compounds and comparison with thermal reactions. Journal of Organic Chemistry, 1987, 52, 2790-2796.	1.7	81
203	A new pathway for photobleaching of [fac-Re(bpy)(CO)3Br](bpy = 2,2â€²-bipyridine) by triethylamine: ethylation of the bipyridine ligand. Journal of the Chemical Society Chemical Communications, 1987, , 1153-1154.	2.0	20
204	Redox-photosensitised reactions. Part 12. Effects of magnesium(II) ion on the [Ru(bpy)3]2+-photomediated reduction of olefins by 1-benzyl-1,4-dihydronicotinamide: metal-ion catalysis of electron transfer processes involving an NADH model. Journal of the Chemical Society Perkin Transactions 1, 1985, , 1527.	0.9	25
205	Redox-photosensitized reactions. 11. Ru(bpy)32+-photosensitized reactions of 1-benzyl-1,4-dihydronicotinamide with aryl-substituted enones, derivatives of methyl cinnamate, and substituted cinnamonitriles: electron-transfer mechanism and structure-reactivity relationships. Journal of Organic Chemistry, 1984, 49, 26-34.	1.7	75
206	Redox-photosensitized reactions. 10. Formation of a novel type of adduct between an NADH model and carbonyl compounds by photosensitization using Ru(bpy)32+. Journal of Organic Chemistry, 1983, 48, 2941-2942.	1.7	67