Shunsuke Sato

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	A Highly Durable, Self-Photosensitized Mononuclear Ruthenium Catalyst for CO2 Reduction. Synlett, 2022, 33, 1137-1141.	1.8	8
2	Hot-carrier photocatalysts for artificial photosynthesis. Journal of Chemical Physics, 2022, 156, 164705.	3.0	1
3	Solar-Driven CO ₂ Reduction Using a Semiconductor/Molecule Hybrid Photosystem: From Photocatalysts to a Monolithic Artificial Leaf. Accounts of Chemical Research, 2022, 55, 933-943.	15.6	47
4	Photocatalytic CO ₂ Reduction Using an Iron–Bipyridyl Complex Supported by Two Phosphines for Improving Catalyst Durability. Organometallics, 2022, 41, 1865-1871.	2.3	7
5	Study of Excited States and Electron Transfer of Semiconductorâ€Metalâ€Complex Hybrid Photocatalysts for CO 2 Reduction by Using Picosecond Timeâ€Resolved Spectroscopies. Chemistry - A European Journal, 2021, 27, 1127-1137.	3.3	4
6	Carbon Nanohorn Support for Solar driven CO ₂ Reduction to CO Catalyzed by Mnâ€complex in an All Earthâ€abundant System. ChemNanoMat, 2021, 7, 596-599.	2.8	3
7	Electrochemical CO ₂ Reduction to HCOOH Catalyzed by Ag <i>_n</i> (NO ₃) <i>_n</i> ₊₁ Clusters Prepared by Laser Ablation at the Air-Liquid Interface. Chemistry Letters, 2021, 50, 1941-1944.	1.3	0
8	Particulate photocatalytic reactors with spectrum-splitting function for artificial photosynthesis. Physical Chemistry Chemical Physics, 2021, 23, 15659-15674.	2.8	2
9	Low-Overpotential Electrochemical Water Oxidation Catalyzed by CuO Derived from 2 nm-Sized Cu ₂ (NO ₃)(OH) ₃ Nanoparticles Generated by Laser Ablation at the Air–Liquid Interface. ACS Applied Energy Materials, 2020, 3, 8383-8392.	5.1	12
10	Photocatalytic CO ₂ Reduction Using a Robust Multifunctional Iridium Complex toward the Selective Formation of Formic Acid. Journal of the American Chemical Society, 2020, 142, 10261-10266.	13.7	90
11	Formation of C2 organic molecules from CO ₂ and H ₂ O by femtosecond laser induced chemical reactions in water. Japanese Journal of Applied Physics, 2020, 59, 057001.	1.5	4
12	Aqueous electrocatalytic CO ₂ reduction using metal complexes dispersed in polymer ion gels. Chemical Communications, 2020, 56, 4440-4443.	4.1	21
13	Solar-driven CO ₂ to CO reduction utilizing H ₂ O as an electron donor by earth-abundant Mn–bipyridine complex and Ni-modified Fe-oxyhydroxide catalysts activated in a single-compartment reactor. Chemical Communications, 2019, 55, 237-240.	4.1	33
14	Molecular Catalysts Immobilized on Semiconductor Photosensitizers for Proton Reduction toward Visibleâ€Lightâ€Driven Overall Water Splitting. ChemSusChem, 2019, 12, 1807-1824.	6.8	25
15	Self-Assembled Single-Crystalline GaN Having a Bimodal Meso/Macropore Structure To Enhance Photoabsorption and Photocatalytic Reactions. ACS Applied Materials & Interfaces, 2019, 11, 4233-4241.	8.0	11
16	Low-Energy Electrocatalytic CO ₂ Reduction in Water over Mn-Complex Catalyst Electrode Aided by a Nanocarbon Support and K ⁺ Cations. ACS Catalysis, 2018, 8, 4452-4458.	11.2	79
17	Band bending and dipole effect at interface of metal-nanoparticles and TiO ₂ directly observed by angular-resolved hard X-ray photoemission spectroscopy. Physical Chemistry Chemical Physics, 2018, 20, 11342-11346.	2.8	12
18	Effects of Ta ₂ O ₅ Surface Modification by NH ₃ on the Electronic Structure of a Ru-Complex/N–Ta ₂ O ₅ Hybrid Photocatalyst for Selective CO ₂ Reduction, Journal of Physical Chemistry C, 2018, 122, 1921-1929.	3.1	12

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19	Solar-Driven Photocatalytic CO ₂ Reduction in Water Utilizing a Ruthenium Complex Catalyst on p-Type Fe ₂ O ₃ with a Multiheterojunction. ACS Catalysis, 2018, 8, 1405-1416.	11.2	110
20	Light-Driven Carbon Dioxide Reduction Devices. Green Chemistry and Sustainable Technology, 2018, , 259-280.	0.7	2
21	[Ir(tpy)(bpy)Cl] as a Photocatalyst for CO ₂ Reduction under Visible‣ight Irradiation. ChemPhotoChem, 2018, 2, 207-212.	3.0	32
22	Electrocatalytic CO ₂ reduction near the theoretical potential in water using Ru complex supported on carbon nanotubes. Nanotechnology, 2018, 29, 034001.	2.6	19
23	Enhancement of CO2 reduction activity under visible light irradiation over Zn-based metal sulfides by combination with Ru-complex catalysts. Applied Catalysis B: Environmental, 2018, 224, 572-578.	20.2	55
24	Electrochemical Water Oxidation Catalysed by CoO o ₂ O ₃ o(OH) ₂ Multiphaseâ€Nanoparticles Prepared by Femtosecond Laser Ablation in Water. ChemistrySelect, 2018, 3, 4979-4984.	1.5	14
25	Highly crystalline β-FeOOH(Cl) nanorod catalysts doped with transition metals for efficient water oxidation. Sustainable Energy and Fuels, 2017, 1, 636-643.	4.9	40
26	Carbon microfiber layer as noble metal-catalyst support for selective CO2 photoconversion in phosphate solution: Toward artificial photosynthesis in a single-compartment reactor. Journal of Photochemistry and Photobiology A: Chemistry, 2016, 327, 1-5.	3.9	8
27	Aminoalkylsilane-modified Silver Cathodes for Electrochemical CO ₂ Reduction. Chemistry Letters, 2016, 45, 1362-1364.	1.3	3
28	Striking Differences in Properties of Geometric Isomers of [Ir(tpy)(ppy)H] ⁺ : Experimental and Computational Studies of their Hydricities, Interaction with CO ₂ , and Photochemistry. Angewandte Chemie - International Edition, 2015, 54, 14128-14132.	13.8	51
29	A monolithic device for CO ₂ photoreduction to generate liquid organic substances in a single-compartment reactor. Energy and Environmental Science, 2015, 8, 1998-2002.	30.8	157
30	Z-scheme water splitting under visible light irradiation over powdered metal-complex/semiconductor hybrid photocatalysts mediated by reduced graphene oxide. Journal of Materials Chemistry A, 2015, 3, 13283-13290.	10.3	65
31	Toward Solar-Driven Photocatalytic CO ₂ Reduction Using Water as an Electron Donor. Inorganic Chemistry, 2015, 54, 5105-5113.	4.0	115
32	Photochemical reactions of fac-rhenium(I) tricarbonyl complexes and their application for synthesis. Coordination Chemistry Reviews, 2015, 282-283, 50-59.	18.8	61
33	Photoelectrochemical CO2 Reduction. , 2014, , 1535-1538.		2
34	A Highly Efficient Mononuclear Iridium Complex Photocatalyst for CO ₂ Reduction under Visible Light. Angewandte Chemie - International Edition, 2013, 52, 988-992.	13.8	277
35	Solar CO2 reduction using H2O by a semiconductor/metal-complex hybrid photocatalyst: enhanced efficiency and demonstration of a wireless system using SrTiO3 photoanodes. Energy and Environmental Science, 2013, 6, 1274.	30.8	251
36	Photochemistry of <i>fac</i> â€{Re(bpy)(CO) ₃ Cl]. Chemistry - A European Journal, 2012, 18, 15722-15734.	3.3	74

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37	Photoinduced Electron Transfer from Nitrogen-Doped Tantalum Oxide to Adsorbed Ruthenium Complex. Journal of Physical Chemistry C, 2011, 115, 18348-18353.	3.1	58
38	Selective CO2 conversion to formate in water using a CZTS photocathode modified with a ruthenium complex polymer. Chemical Communications, 2011, 47, 12664.	4.1	127
39	Direct assembly synthesis of metal complex–semiconductor hybrid photocatalysts anchored by phosphonate for highly efficient CO2 reduction. Chemical Communications, 2011, 47, 8673.	4.1	108
40	Selective CO ₂ Conversion to Formate Conjugated with H ₂ O Oxidation Utilizing Semiconductor/Complex Hybrid Photocatalysts. Journal of the American Chemical Society, 2011, 133, 15240-15243.	13.7	458
41	Visibleâ€Lightâ€Induced Selective CO ₂ Reduction Utilizing a Ruthenium Complex Electrocatalyst Linked to a pâ€Type Nitrogenâ€Doped Ta ₂ O ₅ Semiconductor. Angewandte Chemie - International Edition, 2010, 49, 5101-5105.	13.8	325
42	Photoelectrochemical reduction of CO2 in water under visible-light irradiation by a p-type InP photocathode modified with an electropolymerized ruthenium complex. Chemical Communications, 2010, 46, 6944.	4.1	180
43	Architecture of supramolecular metal complexes for photocatalytic CO2 reduction. Journal of Photochemistry and Photobiology A: Chemistry, 2009, 207, 109-114.	3.9	136
44	Synthesis and properties of a novel tripodal bipyridyl ligand tb-carbinol and its Ru(II)–Re(I) trimetallic complexes: investigation of multimetallic artificial systems for photocatalytic CO ₂ reduction. Dalton Transactions, 2009, , 983-993.	3.3	65
45	A Novel Tripodal Ligand, Tris[(4′-methyl-2,2′-bipyridyl-4-yl)methyl]carbinol and Its Trinuclear Rull/RelMixed-Metal Complexes: Synthesis, Emission Properties, and Photocatalytic CO2Reduction. Inorganic Chemistry, 2008, 47, 10801-10803.	4.0	71
46	Photochemical Synthesis of <i>mer</i> -[Re(bpy)(CO) ₃ Cl]. Inorganic Chemistry, 2007, 46, 9051-9053.	4.0	55
47	Highly efficient supramolecular photocatalysts for CO2reduction using visible light. Photochemical and Photobiological Sciences, 2007, 6, 454-461.	2.9	136
48	Photochemical Ligand Substitution Reactions of fac-[Re(bpy)(CO)3Cl] and Derivatives. Inorganic Chemistry, 2007, 46, 3531-3540.	4.0	67
49	Image degradation and stroboscopic images caused by rotary motion of the object in Xâ€ray computed tomography. Systems and Computers in Japan, 1993, 24, 76-83.	0.2	1