

Shunsuke Sato

List of Publications by Year in descending order

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49
papers

3,645
citations

172457

29
h-index

182427

51
g-index

56
all docs

56
docs citations

56
times ranked

3867
citing authors

#	ARTICLE	IF	CITATIONS
1	Selective CO ₂ Conversion to Formate Conjugated with H ₂ O Oxidation Utilizing Semiconductor/Complex Hybrid Photocatalysts. <i>Journal of the American Chemical Society</i> , 2011, 133, 15240-15243.	13.7	458
2	Visible-Light-Induced Selective CO ₂ Reduction Utilizing a Ruthenium Complex Electrocatalyst Linked to a p-Type Nitrogen-Doped Ta ₂ O ₅ Semiconductor. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 5101-5105.	13.8	325
3	A Highly Efficient Mononuclear Iridium Complex Photocatalyst for CO ₂ Reduction under Visible Light. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 988-992.	13.8	277
4	Solar CO ₂ reduction using H ₂ O by a semiconductor/metal-complex hybrid photocatalyst: enhanced efficiency and demonstration of a wireless system using SrTiO ₃ photoanodes. <i>Energy and Environmental Science</i> , 2013, 6, 1274.	30.8	251
5	Photoelectrochemical reduction of CO ₂ in water under visible-light irradiation by a p-type InP photocathode modified with an electropolymerized ruthenium complex. <i>Chemical Communications</i> , 2010, 46, 6944.	4.1	180
6	A monolithic device for CO ₂ photoreduction to generate liquid organic substances in a single-compartment reactor. <i>Energy and Environmental Science</i> , 2015, 8, 1998-2002.	30.8	157
7	Highly efficient supramolecular photocatalysts for CO ₂ reduction using visible light. <i>Photochemical and Photobiological Sciences</i> , 2007, 6, 454-461.	2.9	136
8	Architecture of supramolecular metal complexes for photocatalytic CO ₂ reduction. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2009, 207, 109-114.	3.9	136
9	Selective CO ₂ conversion to formate in water using a CZTS photocathode modified with a ruthenium complex polymer. <i>Chemical Communications</i> , 2011, 47, 12664.	4.1	127
10	Toward Solar-Driven Photocatalytic CO ₂ Reduction Using Water as an Electron Donor. <i>Inorganic Chemistry</i> , 2015, 54, 5105-5113.	4.0	115
11	Solar-Driven Photocatalytic CO ₂ Reduction in Water Utilizing a Ruthenium Complex Catalyst on p-Type Fe ₂ O ₃ with a Multiheterojunction. <i>ACS Catalysis</i> , 2018, 8, 1405-1416.	11.2	110
12	Direct assembly synthesis of metal complex-semiconductor hybrid photocatalysts anchored by phosphonate for highly efficient CO ₂ reduction. <i>Chemical Communications</i> , 2011, 47, 8673.	4.1	108
13	Photocatalytic CO ₂ Reduction Using a Robust Multifunctional Iridium Complex toward the Selective Formation of Formic Acid. <i>Journal of the American Chemical Society</i> , 2020, 142, 10261-10266.	13.7	90
14	Low-Energy Electrocatalytic CO ₂ Reduction in Water over Mn-Complex Catalyst Electrode Aided by a Nanocarbon Support and K ⁺ Cations. <i>ACS Catalysis</i> , 2018, 8, 4452-4458.	11.2	79
15	Photochemistry of <i>fac</i> -[Re(bpy)(CO) ₃ Cl]. <i>Chemistry - A European Journal</i> , 2012, 18, 15722-15734.	3.3	74
16	A Novel Tripodal Ligand, Tris[(4-methyl-2,2'-bipyridyl-4-yl)methyl]carbinol and Its Trinuclear Ru/Re Mixed-Metal Complexes: Synthesis, Emission Properties, and Photocatalytic CO ₂ Reduction. <i>Inorganic Chemistry</i> , 2008, 47, 10801-10803.	4.0	71
17	Photochemical Ligand Substitution Reactions of <i>fac</i> -[Re(bpy)(CO) ₃ Cl] and Derivatives. <i>Inorganic Chemistry</i> , 2007, 46, 3531-3540.	4.0	67
18	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. <i>Dalton Transactions</i> , 2009, , 983-993.	3.3	65

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19	Z-scheme water splitting under visible light irradiation over powdered metal-complex/semiconductor hybrid photocatalysts mediated by reduced graphene oxide. <i>Journal of Materials Chemistry A</i> , 2015, 3, 13283-13290.	10.3	65
20	Photochemical reactions of fac-rhenium(I) tricarbonyl complexes and their application for synthesis. <i>Coordination Chemistry Reviews</i> , 2015, 282-283, 50-59.	18.8	61
21	Photoinduced Electron Transfer from Nitrogen-Doped Tantalum Oxide to Adsorbed Ruthenium Complex. <i>Journal of Physical Chemistry C</i> , 2011, 115, 18348-18353.	3.1	58
22	Photochemical Synthesis of <i>mer</i> -[Re(bpy)(CO) ₃ Cl]. <i>Inorganic Chemistry</i> , 2007, 46, 9051-9053.	4.0	55
23	Enhancement of CO ₂ reduction activity under visible light irradiation over Zn-based metal sulfides by combination with Ru-complex catalysts. <i>Applied Catalysis B: Environmental</i> , 2018, 224, 572-578.	20.2	55
24	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. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 14128-14132.	13.8	51
25	Solar-Driven CO ₂ Reduction Using a Semiconductor/Molecule Hybrid Photosystem: From Photocatalysts to a Monolithic Artificial Leaf. <i>Accounts of Chemical Research</i> , 2022, 55, 933-943.	15.6	47
26	Highly crystalline γ -FeOOH(Cl) nanorod catalysts doped with transition metals for efficient water oxidation. <i>Sustainable Energy and Fuels</i> , 2017, 1, 636-643.	4.9	40
27	Solar-driven CO ₂ to CO reduction utilizing H ₂ O as an electron donor by earth-abundant Mn ^{II} -bipyridine complex and Ni-modified Fe-oxhydroxide catalysts activated in a single-compartment reactor. <i>Chemical Communications</i> , 2019, 55, 237-240.	4.1	33
28	[Ir(tpy)(bpy)Cl] as a Photocatalyst for CO ₂ Reduction under Visible-Light Irradiation. <i>ChemPhotoChem</i> , 2018, 2, 207-212.	3.0	32
29	Molecular Catalysts Immobilized on Semiconductor Photosensitizers for Proton Reduction toward Visible-Light-Driven Overall Water Splitting. <i>ChemSusChem</i> , 2019, 12, 1807-1824.	6.8	25
30	Aqueous electrocatalytic CO ₂ reduction using metal complexes dispersed in polymer ion gels. <i>Chemical Communications</i> , 2020, 56, 4440-4443.	4.1	21
31	Electrocatalytic CO ₂ reduction near the theoretical potential in water using Ru complex supported on carbon nanotubes. <i>Nanotechnology</i> , 2018, 29, 034001.	2.6	19
32	Electrochemical Water Oxidation Catalysed by Co ₂ O ₃ •Co(OH) ₂ Multiphase Nanoparticles Prepared by Femtosecond Laser Ablation in Water. <i>ChemistrySelect</i> , 2018, 3, 4979-4984.	1.5	14
33	Band bending and dipole effect at interface of metal-nanoparticles and TiO ₂ directly observed by angular-resolved hard X-ray photoemission spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 11342-11346.	2.8	12
34	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. <i>Journal of Physical Chemistry C</i> , 2018, 122, 1921-1929.	3.1	12
35	Low-Overpotential Electrochemical Water Oxidation Catalyzed by CuO Derived from 2 nm-Sized Cu ₂ (NO ₃) ₃ (OH) ₃ Nanoparticles Generated by Laser Ablation at the Air-Liquid Interface. <i>ACS Applied Energy Materials</i> , 2020, 3, 8383-8392.	5.1	12
36	Self-Assembled Single-Crystalline GaN Having a Bimodal Meso/Macropore Structure To Enhance Photoabsorption and Photocatalytic Reactions. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 4233-4241.	8.0	11

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37	Carbon microfiber layer as noble metal-catalyst support for selective CO ₂ photoconversion in phosphate solution: Toward artificial photosynthesis in a single-compartment reactor. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2016, 327, 1-5.	3.9	8
38	A Highly Durable, Self-Photosensitized Mononuclear Ruthenium Catalyst for CO ₂ Reduction. <i>Synlett</i> , 2022, 33, 1137-1141.	1.8	8
39	Photocatalytic CO ₂ Reduction Using an Iron-Bipyridyl Complex Supported by Two Phosphines for Improving Catalyst Durability. <i>Organometallics</i> , 2022, 41, 1865-1871.	2.3	7
40	Formation of C ₂ organic molecules from CO ₂ and H ₂ O by femtosecond laser induced chemical reactions in water. <i>Japanese Journal of Applied Physics</i> , 2020, 59, 057001.	1.5	4
41	Study of Excited States and Electron Transfer of Semiconductor-Metal-Complex Hybrid Photocatalysts for CO ₂ Reduction by Using Picosecond Time-Resolved Spectroscopies. <i>Chemistry - A European Journal</i> , 2021, 27, 1127-1137.	3.3	4
42	Aminoalkylsilane-modified Silver Cathodes for Electrochemical CO ₂ Reduction. <i>Chemistry Letters</i> , 2016, 45, 1362-1364.	1.3	3
43	Carbon Nanohorn Support for Solar driven CO ₂ Reduction to CO Catalyzed by Mn-complex in an All Earth-abundant System. <i>ChemNanoMat</i> , 2021, 7, 596-599.	2.8	3
44	Light-Driven Carbon Dioxide Reduction Devices. <i>Green Chemistry and Sustainable Technology</i> , 2018, , 259-280.	0.7	2
45	Particulate photocatalytic reactors with spectrum-splitting function for artificial photosynthesis. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 15659-15674.	2.8	2
46	Photoelectrochemical CO ₂ Reduction. , 2014, , 1535-1538.		2
47	Image degradation and stroboscopic images caused by rotary motion of the object in X-ray computed tomography. <i>Systems and Computers in Japan</i> , 1993, 24, 76-83.	0.2	1
48	Hot-carrier photocatalysts for artificial photosynthesis. <i>Journal of Chemical Physics</i> , 2022, 156, 164705.	3.0	1
49	Electrochemical CO ₂ Reduction to HCOOH Catalyzed by Ag _n (NO ₃) _{n+1} Clusters Prepared by Laser Ablation at the Air-Liquid Interface. <i>Chemistry Letters</i> , 2021, 50, 1941-1944.	1.3	0