

# Masaru Kato

## List of Publications by Year in descending order

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58  
papers

1,267  
citations

471509

17  
h-index

361022

35  
g-index

60  
all docs

60  
docs citations

60  
times ranked

1822  
citing authors

#	ARTICLE	IF	CITATIONS
1	Photoelectrochemical Water Oxidation with Photosystem II Integrated in a Mesoporous Indium-Tin Oxide Electrode. <i>Journal of the American Chemical Society</i> , 2012, 134, 8332-8335.	13.7	199
2	Protein film photoelectrochemistry of the water oxidation enzyme photosystem II. <i>Chemical Society Reviews</i> , 2014, 43, 6485-6497.	38.1	148
3	Selective Reduction of Aqueous Protons to Hydrogen with a Synthetic Cobaloxime Catalyst in the Presence of Atmospheric Oxygen. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 9381-9384.	13.8	123
4	Electron Transfer in Dye-Sensitised Semiconductors Modified with Molecular Cobalt Catalysts: Photoreduction of Aqueous Protons. <i>Chemistry - A European Journal</i> , 2012, 18, 15464-15475.	3.3	112
5	Covalent Immobilization of Oriented Photosystem II on a Nanostructured Electrode for Solar Water Oxidation. <i>Journal of the American Chemical Society</i> , 2013, 135, 10610-10613.	13.7	112
6	Molecular Structure and Electrochemical Behavior of Uranyl(VI) Complex with Pentadentate Schiff Base Ligand: Prevention of Uranyl(V) Cation-Cation Interaction by Fully Chelating Equatorial Coordination Sites. <i>Inorganic Chemistry</i> , 2010, 49, 2349-2359.	4.0	65
7	Electrocatalytic nitrate reduction on well-defined surfaces of tin-modified platinum, palladium and platinum-palladium single crystalline electrodes in acidic and neutral media. <i>Journal of Electroanalytical Chemistry</i> , 2017, 800, 46-53.	3.8	42
8	Impact of Heterometallic Cooperativity of Iron and Copper Active Sites on Electrocatalytic Oxygen Reduction Kinetics. <i>ACS Catalysis</i> , 2021, 11, 2356-2365.	11.2	40
9	Deprotonation of a dinuclear copper complex of 3,5-diamino-1,2,4-triazole for high oxygen reduction activity. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 8638-8641.	2.8	25
10	Colloidal metal oxide particles loaded with synthetic catalysts for solar H <sub>2</sub> production. <i>Faraday Discussions</i> , 2012, 155, 191-205.	3.2	24
11	Oxygen Reduction Reaction Catalyzed by Self-Assembled Monolayers of Copper-Based Electrocatalysts on a Polycrystalline Gold Surface. <i>Journal of Physical Chemistry C</i> , 2016, 120, 15814-15822.	3.1	24
12	Anion influence on the coordination polymer structures of silver(I) complexes with 2-methylisothiazol-3(2H)-one. <i>CrystEngComm</i> , 2008, 10, 1460.	2.6	22
13	Comparison of photoelectrochemical water oxidation activity of a synthetic photocatalyst system with photosystem II. <i>Faraday Discussions</i> , 2014, 176, 199-211.	3.2	19
14	Terahertz Raman Spectroscopy of Ligand-Protected Au <sub>8</sub> Clusters. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 7996-8001.	4.6	19
15	Electronic Effects of Nitrogen Atoms of Supports on Pt-Ni Rhombic Dodecahedral Nanoframes for Oxygen Reduction. <i>ACS Applied Energy Materials</i> , 2020, 3, 6768-6774.	5.1	19
16	Development of a spectro-electrochemical cell for soft X-ray photon-in photon-out spectroscopy. <i>Review of Scientific Instruments</i> , 2017, 88, 104101.	1.3	17
17	Surface-Enhanced Infrared Absorption Spectroscopy of Bacterial Nitric Oxide Reductase under Electrochemical Control Using a Vibrational Probe of Carbon Monoxide. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 5196-5200.	4.6	17
18	Confinement of Hydrogen Molecules at Graphene-Metal Interface by Electrochemical Hydrogen Evolution Reaction. <i>Journal of Physical Chemistry C</i> , 2020, 124, 5300-5307.	3.1	17

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19	Enhancement of Electrocatalytic Oxygen Reduction Activity and Durability of Pt–Ni Rhombic Dodecahedral Nanoframes by Anchoring to Nitrogen-Doped Carbon Support. <i>ACS Omega</i> , 2018, 3, 9052-9059.	3.5	16
20	Incorporation of Multinuclear Copper Active Sites into Nitrogen-Doped Graphene for Electrochemical Oxygen Reduction. <i>ACS Applied Energy Materials</i> , 2018, 1, 2358-2364.	5.1	15
21	Energy transfer in hybrid Langmuir–Blodgett films of iridium complexes and synthetic saponite: dependence of transfer efficiency on the interlayer distance. <i>New Journal of Chemistry</i> , 2014, 38, 5715-5720.	2.8	13
22	Linkage isomerism of pentaammine(dimethylsulfoxide)ruthenium(II/III) complexes: A theoretical study. <i>Inorganica Chimica Acta</i> , 2009, 362, 1199-1203.	2.4	12
23	Ferromagnetic Spin Ladder System: Stack of Chlorido-Bridged Dinuclear Copper(II) Complexes with 2-Methylisothiazol-3(2H)-one. <i>European Journal of Inorganic Chemistry</i> , 2011, 2011, 495-502.	2.0	12
24	Electronic structure calculation study of metal complexes with a phytosiderophore mugineic acid. <i>Inorganica Chimica Acta</i> , 2011, 370, 304-310.	2.4	12
25	Bioinspired Iron- and Copper-incorporated Carbon Electrocatalysts for Oxygen Reduction Reaction. <i>Chemistry Letters</i> , 2016, 45, 1213-1215.	1.3	12
26	Electrochemically Driven Specific Alkaline Metal Cation Adsorption on a Graphene Interface. <i>Journal of Physical Chemistry C</i> , 2021, 125, 22154-22162.	3.1	11
27	Electrocatalytic Oxygen Reduction at Multinuclear Metal Active Sites Inspired by Metalloenzymes. <i>E-Journal of Surface Science and Nanotechnology</i> , 2020, 18, 81-93.	0.4	10
28	Lattice Water-Induced Helical Stacking of Tartrate-Bridged Dinuclear Palladium(II) Complexes: The Role of Hydrogen Bonding. <i>Crystal Growth and Design</i> , 2014, 14, 3675-3679.	3.0	9
29	Electrocatalytic activity and volatile product selectivity for nitrate reduction at tin-modified Pt(100), Pd(100) and Pd–Pt(100) single crystal electrodes in acidic media. <i>Electrochimica Acta</i> , 2021, 398, 139281.	5.2	9
30	Bio-inorganic hybrid photoanodes of photosystem II and ferricyanide-intercalated layered double hydroxide for visible-light-driven water oxidation. <i>Electrochimica Acta</i> , 2018, 264, 386-392.	5.2	8
31	Host–guest chemistry between cyclodextrin and a hydrogen evolution catalyst cobaloxime. <i>New Journal of Chemistry</i> , 2019, 43, 10087-10092.	2.8	8
32	Impact of membrane protein-lipid interactions on formation of bilayer lipid membranes on SAM-modified gold electrode. <i>Electrochimica Acta</i> , 2021, 373, 137888.	5.2	8
33	Structural Transformation of Pt–Ni Nanowires as Oxygen Reduction Electrocatalysts to Branched Nanostructures during Potential Cycles. <i>ACS Catalysis</i> , 2022, 12, 259-264.	11.2	7
34	Real-Time Monitoring of Low Pressure Oxygen Molecules over Wide Temperature Range: Feasibility of Ultrathin Hybrid Films of Iridium(III) Complexes and Clay Nanosheets. <i>Bulletin of the Chemical Society of Japan</i> , 2020, 93, 194-199.	3.2	6
35	Structural and electrochemical studies on uranyl(VI) complex with pentadentate Schiff base ligand: A guide to stable uranyl(V). <i>IOP Conference Series: Materials Science and Engineering</i> , 2010, 9, 012030.	0.6	4
36	Preferential Behavior on Donating Atoms of an Ambidentate Ligand 2-Methylisothiazol-3(2H)-one in Its Metal Complexes. <i>Inorganic Chemistry</i> , 2013, 52, 13375-13383.	4.0	3

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37	Cathodic Arc-plasma Deposition of Platinum Nanoparticles on Fluorine-doped Tin Oxide for Electrocatalytic Nitrate Reduction Reaction. <i>Electrochemistry</i> , 2018, 86, 220-222.	1.4	3
38	( $\lambda$ ) <sup>545</sup> -fac- $\lambda^1$ -Tris(L-prolinato)cobalt(III) trihydrate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2008, 64, m684-m684.	0.2	3
39	Tetra-n-propylammonium perchlorate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2005, 61, o1439-o1440.	0.2	2
40	One-step Preparation of Fe/N/C Single-atom Catalysts Containing Fe <sup>N4</sup> Sites from an Iron Complex Precursor with 5,6,7,8-tetraphenyl-1,12-diazatriphenylene Ligands. <i>Chemistry - A European Journal</i> , 2021, , .	3.3	2
41	Electrocatalytic nitrate and nitrous oxide reduction at interfaces between Pt-Pd nanoparticles and fluorine-doped tin oxide. <i>Electrochimica Acta</i> , 2022, 425, 140628.	5.2	2
42	3-Hydroxy-2-methylisothiazolium chloride monohydrate: an intermolecular three-dimensional network via O <sup>H</sup> ...O and O <sup>H</sup> ...Cl hydrogen bonds. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2007, 63, o1839-o1841.	0.2	1
43	Non-PGM Electrocatalysts for Oxygen Reduction Reaction Inspired By Metalloenzyme Active Sites. <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	1
44	<i>In situ</i> fluorescence yield soft X-ray absorption spectroscopy of electrochemical nickel deposition processes with and without ethylene glycol. <i>RSC Advances</i> , 2022, 12, 10425-10430.	3.6	1
45	5-Chloro-2-methylisothiazolin-3-one: intermolecular two-dimensional networks via unusual C <sup>Cl</sup> ...O=C interactions. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2007, 63, o3097-o3097.	0.2	0
46	InnenrÄcktitelbild: Selective Reduction of Aqueous Protons to Hydrogen with a Synthetic Cobaloxime Catalyst in the Presence of Atmospheric Oxygen ( <i>Angew. Chem.</i> 37/2012). <i>Angewandte Chemie</i> , 2012, 124, 9591-9591.	2.0	0
47	(Invited) Electrochemical Oxygen Reduction Catalyzed at Pt <sup>Ni</sup> Nanostructured Electrocatalysts Immobilized on Nitrogen-Doped Carbon Supports. <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	0
48	Effects of Nitrogen-Doped Carbon Support on Oxygen Reduction Reaction Activity of Pt <sup>Ni</sup> Nanoframe. <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	0
49	Co-Doping Effects of Iron and Copper into Carbon Nanotubes on Oxygen Reduction Reaction Activity. <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	0
50	Mechanistic Insights into Enzymatic Nitric Oxide Reduction Revealed By Surface-Enhanced Infrared Absorption Spectroscopy. <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	0
51	(Invited) Oxygen Reduction Reactivity at Fe- and Cu-Codoped Carbon Nanostructures. <i>ECS Meeting Abstracts</i> , 2020, MA2020-01, 875-875.	0.0	0
52	Electrocatalytic Activity and Durability of Pt <sup>Ni</sup> Nanowires for Oxygen Reduction. <i>ECS Meeting Abstracts</i> , 2020, MA2020-02, 2314-2314.	0.0	0
53	Improving Electrochemical Activity of Rhombic Dodecahedral Pt <sub>3</sub> (Ni,X) Nanoparticles Using Transition Metal Additions. <i>ECS Meeting Abstracts</i> , 2020, MA2020-02, 2295-2295.	0.0	0
54	Synthesis and Electrocatalytic Activity of Pt-Ni Nanowire. <i>ECS Meeting Abstracts</i> , 2020, MA2020-02, 2294-2294.	0.0	0

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55	&lt;i>In situ</i> X-ray Absorption Spectroscopy at Platinum Group Metal (PGM) and Non-PGM Electrocatalysts. Denki Kagaku, 2022, 90, 16-20.	0.0	0
56	(Invited, Digital Presentation) Cooperative Effects of Fe and Cu Sites in N-Doped Carbon Nanotubes on Oxygen Reduction Activity and Selectivity. ECS Meeting Abstracts, 2022, MA2022-01, 882-882.	0.0	0
57	(Digital Presentation) Oxygen Reduction Activity, Durability and Structural Transformation of Pt-Ni Nanowires in the Presence and Absence of Pt-Ni Nanoparticles. ECS Meeting Abstracts, 2022, MA2022-01, 1543-1543.	0.0	0
58	(Digital Presentation) Improving Oxygen Evolution Reaction Performance and Durability Using Rhombic Dodecahedral Pt <sub>3</sub> (Ni,X) Nanoparticles with Metal Oxide Supports. ECS Meeting Abstracts, 2022, MA2022-01, 1358-1358.	0.0	0