

Ichizo Yagi

List of Publications by Year in descending order

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95
papers

2,571
citations

236925

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197818

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docs citations

95
times ranked

2629
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrochemical Oxidation of NADH at Highly Boron-Doped Diamond Electrodes. <i>Analytical Chemistry</i> , 1999, 71, 2506-2511.	6.5	249
2	Electrochemical selectivity for redox systems at oxygen-terminated diamond electrodes. <i>Journal of Electroanalytical Chemistry</i> , 1999, 473, 173-178.	3.8	239
3	In situ and dynamic monitoring of the self-assembling and redox processes of a ferrocenylundecanethiol monolayer by electrochemical quartz crystal microbalance. <i>Langmuir</i> , 1992, 8, 1385-1387.	3.5	180
4	Electroanalysis of dopamine and NADH at conductive diamond electrodes. <i>Journal of Electroanalytical Chemistry</i> , 1999, 473, 179-185.	3.8	133
5	Synthesis of Well-Aligned Diamond Nanocylinders. <i>Advanced Materials</i> , 2001, 13, 247-249.	21.0	133
6	Introduction of Oxygen-Containing Functional Groups onto Diamond Electrode Surfaces by Oxygen Plasma and Anodic Polarization. <i>Electrochemical and Solid-State Letters</i> , 1999, 2, 522.	2.2	130
7	Surface carbonyl groups on oxidized diamond electrodes. <i>Journal of Electroanalytical Chemistry</i> , 2000, 492, 31-37.	3.8	101
8	Electrochemical quartz crystal microbalance studies of self-assembled monolayers of 11-ferrocenyl-1-undecanethiol: Structure-dependent ion-pairing and solvent uptake. <i>Journal of Electroanalytical Chemistry</i> , 1994, 372, 117-124.	3.8	84
9	Preparation of Cocrystals of 2-Amino-3-nitropyridine with Benzenesulfonic Acids for Second-Order Nonlinear Optical Materials. <i>Crystal Growth and Design</i> , 2004, 4, 807-811.	3.0	74
10	Electrocatalytic reduction of oxygen to water at Au nanoclusters vacuum-evaporated on boron-doped diamond in acidic solution. <i>Electrochemistry Communications</i> , 2004, 6, 773-779.	4.7	72
11	Electrochemical Control of the Second Harmonic Generation Property of Self-Assembled Monolayers Containing <i>trans</i> -Ferrocenyl-Nitrophenyl Ethylene Group on Gold. <i>Journal of the American Chemical Society</i> , 1999, 121, 391-398.	13.7	68
12	Evaluation of change in nanostructure through the heat treatment of carbon materials and their durability for the start/stop operation of polymer electrolyte fuel cells. <i>Electrochimica Acta</i> , 2013, 97, 33-41.	5.2	62
13	Preparation of Pt/mesoporous carbon (MC) electrode catalyst and its reactivity toward oxygen reduction. <i>Electrochimica Acta</i> , 2008, 53, 6117-6125.	5.2	56
14	Synthesis, Structure, and Second-Harmonic Generation of Noncentrosymmetric Cocrystals of 2-Amino-5-nitropyridine with Achiral Benzenesulfonic Acids. <i>Crystal Growth and Design</i> , 2001, 1, 467-471.	3.0	50
15	Packing State and Stability of Self-Assembled Monolayers of 11-Ferrocenyl-1-undecanethiol on Platinum Electrodes. <i>Bulletin of the Chemical Society of Japan</i> , 1994, 67, 863-865.	3.2	48
16	Molecular Structure of Buried Perfluorosulfonated Ionomer/Pt Interface Probed by Vibrational Sum Frequency Generation Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2014, 118, 26182-26190.	3.1	44
17	In situ optical second harmonic generation studies of electrochemical deposition of tellurium on polycrystalline gold electrodes. <i>Journal of Electroanalytical Chemistry</i> , 1996, 401, 95-101.	3.8	42
18	Reaction pathway of four-electron oxidation of formaldehyde on platinum electrode as observed by in situ optical spectroscopy. <i>Surface Science</i> , 1997, 386, 82-88.	1.9	42

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19	Adsorption and Electroreduction of Oxygen on Gold in Acidic Media: In Situ Spectroscopic Identification of Adsorbed Molecular Oxygen and Hydrogen Superoxide. <i>Journal of Physical Chemistry C</i> , 2012, 116, 14390-14400.	3.1	42
20	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
21	Photocontrolled Magnetization of CdS-Modified Prussian Blue Nanoparticles. <i>Journal of the American Chemical Society</i> , 2006, 128, 10978-10982.	13.7	40
22	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
23	Dissociative adsorption dynamics of formaldehyde on a platinum electrode surface; one-dimensional domino?. <i>Chemical Physics</i> , 1996, 205, 269-275.	1.9	26
24	Excitation Wavelength Dependent Three-Wave Mixing at a CO-Covered Platinum Electrode. <i>Journal of Physical Chemistry B</i> , 1997, 101, 7414-7421.	2.6	26
25	In Situ Optical Second Harmonic Rotational Anisotropy Measurements of an Au(111) Electrode during Electrochemical Deposition of Tellurium. <i>Journal of Physical Chemistry B</i> , 1998, 102, 2677-2683.	2.6	25
26	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
27	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
28	The charged interface between Pt and water: First principles molecular dynamics simulations. <i>AIP Advances</i> , 2012, 2, 032182.	1.3	19
29	Terahertz Raman Spectroscopy of Ligand-Protected Au ₈ Clusters. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 7996-8001.	4.6	19
30	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
31	Real time monitoring of electrochemical deposition of tellurium on Au(111) electrode by optical second harmonic generation technique. <i>Surface Science</i> , 1998, 406, 1-8.	1.9	18
32	Optical Recognition of Surface Chirality at Au(hkl) Single Crystalline Surfaces by Second Harmonic Generation Rotational Anisotropy. <i>Journal of the American Chemical Society</i> , 2005, 127, 12743-12746.	13.7	18
33	In Situ Surface-Enhanced Raman Scattering Spectroscopic Study of Pyridine Adsorbed on Gold Electrode Surfaces Comprised of Plasmonic Crystal Structures. <i>Journal of Physical Chemistry C</i> , 2008, 112, 17603-17610.	3.1	17
34	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
35	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
36	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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37	Size-Dependent Carrier Dynamics in CdS Nanoparticles by Femtosecond Visible-Pump/IR-Probe Measurements. <i>Journal of Physical Chemistry B</i> , 2006, 110, 14192-14197.	2.6	16
38	Electrochemical Modification of Surface Morphology of Au/Ti Bilayer Films Deposited on a Si Prism for in Situ Surface-Enhanced Infrared Absorption (SEIRA) Spectroscopy. <i>Langmuir</i> , 2010, 26, 18097-18104.	3.5	16
39	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
40	Second harmonic generation study on electrochemical deposition of palladium on a polycrystalline gold electrode. <i>Journal of Electroanalytical Chemistry</i> , 2002, 524-525, 184-193.	3.8	15
41	Preparation of a self-standing mesoporous carbon membrane with perpendicularly-ordered pore structures. <i>Chemical Communications</i> , 2008, , 5809.	4.1	15
42	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
43	Control of the Dynamics of Photogenerated Carriers at the Boron-Doped Diamond/Electrolyte Interface by Variation of the Surface Termination. <i>Electrochemical and Solid-State Letters</i> , 1999, 2, 457.	2.2	14
44	Direct Observation of Well-dispersed Pt Nanoparticles inside the Pores of Mesoporous Carbon through the Cross Section of Pt/Mesoporous Carbon Particles. <i>Chemistry Letters</i> , 2009, 38, 346-347.	1.3	13
45	Bioinspired Iron- and Copper-incorporated Carbon Electrocatalysts for Oxygen Reduction Reaction. <i>Chemistry Letters</i> , 2016, 45, 1213-1215.	1.3	12
46	Zinc/graphitic carbon nitride co-mediated dual-template synthesis of densely populated Fe-N-embedded 2D carbon nanosheets towards oxygen reduction reactions for Zn-air batteries. <i>Journal of Materials Chemistry A</i> , 2022, 10, 5971-5980.	10.3	12
47	Oxygen Transfer and Storage Processes inside the Mesopores of Platinum-Deposited Mesoporous Carbon Catalyst Thin-Layer Electrode. <i>Journal of Physical Chemistry C</i> , 2009, 113, 12149-12153.	3.1	11
48	Electrocatalytic Activity for Oxygen Reduction Reaction of Pseudomorphic Pt Monolayer Prepared Electrochemically on a Au(111) Surface. <i>Chemistry Letters</i> , 2011, 40, 1235-1237.	1.3	11
49	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
50	In situ observation of anodic dissolution process of p-GaAs(001) in HCl solution by surface X-ray diffraction. <i>Journal of Electroanalytical Chemistry</i> , 1997, 429, 13-17.	3.8	10
51	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
52	Electrodeposition of Flattened Cu Nanoclusters on a p-GaAs(001) Electrode Monitored by in situ Optical Second Harmonic Generation. <i>Journal of Physical Chemistry B</i> , 2005, 109, 5021-5032.	2.6	9
53	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
54	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

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55	Host-guest chemistry between cyclodextrin and a hydrogen evolution catalyst cobaloxime. <i>New Journal of Chemistry</i> , 2019, 43, 10087-10092.	2.8	8
56	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
57	In situ Optical Second Harmonic Generation Study of Electrochemical Oxidation of Formaldehyde on a Polycrystalline Platinum Electrode. <i>Chemistry Letters</i> , 1996, 25, 529-530.	1.3	7
58	Direct Proof for Electrochemical Substitution of Surface Hydrogen of Boron-doped Diamond Electrode by TOF-ESD Method. <i>Chemistry Letters</i> , 2003, 32, 1050-1051.	1.3	7
59	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
60	Mesoporous Materials toward Nanofabricator and Nanoreactor. <i>Electrochemistry</i> , 2010, 78, 105-113.	1.4	6
61	Oxygen Reduction Reactivity of Precisely Controlled Nanostructured Model Catalysts. <i>Journal of Physical Chemistry C</i> , 2010, 114, 14675-14683.	3.1	6
62	Study of Platinum Dissolution Mechanism Using a Highly Sensitive Electrochemical Quartz Crystal Microbalance. <i>Chemistry Letters</i> , 2011, 40, 402-404.	1.3	6
63	Cocrystals of 2-AMINO-5-Nitropyridine with Benzenesulfonic Acids for Second-Order Nonlinear Optical Materials. <i>Molecular Crystals and Liquid Crystals</i> , 2004, 420, 79-89.	0.9	5
64	The Effects of Nitrogen and Plasma Power on Electrochemical Properties of Boron-Doped Diamond Electrodes Grown by MPCVD. <i>Journal of the Electrochemical Society</i> , 2002, 149, E1.	2.9	4
65	Femtosecond Visible Pump Mid-IR Probe Study on the Effects of Surface Treatments on Ultrafast Photogenerated Carrier Dynamics in n-GaAs (100) Crystals. <i>Chemistry Letters</i> , 2004, 33, 604-605.	1.3	3
66	Electrochemical Fabrication of Cubic-Shaped Pt Nanoparticles onto Carbon Fiber Electrodes. <i>Electrochemistry</i> , 2010, 78, 132-135.	1.4	3
67	In Situ Observation of Nafion-Model Molecular Behaviors at Metal Electrodes by SEIRAS. <i>ECS Transactions</i> , 2011, 41, 689-696.	0.5	3
68	Ultrafast Dynamics of Photogenerated Electrons in CdS Nanocluster Multilayers Assembled on Solid Substrates: Effects of Assembly and Electrode Potential. <i>ChemPhysChem</i> , 2013, 14, 2174-2182.	2.1	3
69	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
70	New Aspect on CVD Diamond Films. <i>Electrochemical Applications of Conductive Diamond Thin Films.. Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan</i> , 1999, 50, 486-493.	0.2	2
71	One-step Preparation of Fe/N/C Single-atom Catalysts Containing Fe ^{IV} N ₄ 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
72	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

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73	Cocrystals of 2-AMINO-5-Nitropyridine with Benzenesulfonic Acids for Second Order Nonlinear Optical Materials. <i>Molecular Crystals and Liquid Crystals</i> , 2004, 414, 77-86.	0.9	1
74	In situ <i>éřçšă1/2ċă†â...%oæ³•ă«ă,â,«é»æ¥µèj'éċă®ă†æž</i> . <i>Electrochemistry</i> , 2008, 76, 220-226.	1.4	1
75	(Invited) Micro-to-Nanostructures to Probe Electrocatalysts by SERS. <i>ECS Transactions</i> , 2013, 45, 103-109.	0.5	1
76	Non-PGM Electrocatalysts for Oxygen Reduction Reaction Inspired By Metalloenzyme Active Sites. <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	1
77	<i><i>In situ</i></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
78	Electrocatalytic Oxygen Reduction Reaction by Pt Ultra-thin Films Formed on Au Single Crystal Electrodes. <i>Hyomen Kagaku</i> , 2009, 30, 499-502.	0.0	0
79	Nanostructures to Probe Electrocatalytic Reactions. <i>ECS Transactions</i> , 2010, 28, 111-120.	0.5	0
80	Nanostructures to Probe Electrocatalytic Reactions II. <i>ECS Transactions</i> , 2011, 35, 183-191.	0.5	0
81	Electrochemical Second Harmonic Generation. , 2018, , 91-95.		0
82	Electrochemical Hydrogen and Oxygen Evolution Mechanisms at B-doped Diamond Electrodes Investigated by TOF-ESD Methods. , 2005, , 132-148.		0
83	Optical Recognition of Chirality at Surfaces by Vibrational Sum Frequency Generation Spectroscopy. <i>Hyomen Kagaku</i> , 2008, 29, 518-525.	0.0	0
84	(Invited) Electrochemical Oxygen Reduction Catalyzed at Ptâ€“Ni Nanostructured Electrocatalysts Immobilized on Nitrogen-Doped Carbon Supports. <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	0
85	Effects of Nitrogen-Doped Carbon Support on Oxygen Reduction Reaction Activity of Ptâ€“Ni Nanoframe. <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	0
86	Co-Doping Effects of Iron and Copper into Carbon Nanotubes on Oxygen Reduction Reaction Activity. <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	0
87	Mechanistic Insights into Enzymatic Nitric Oxide Reduction Revealed By Surface-Enhanced Infrared Absorption Spectroscopy. <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	0
88	(Invited) Oxygen Reduction Reactivity at Fe- and Cu-Codoped Carbon Nanostructures. <i>ECS Meeting Abstracts</i> , 2020, MA2020-01, 875-875.	0.0	0
89	Electrocatalytic Activity and Durability of Ptâ€“Ni Nanowires for Oxygen Reduction. <i>ECS Meeting Abstracts</i> , 2020, MA2020-02, 2314-2314.	0.0	0
90	Improving Electrochemical Activity of Rhombic Dodecahedral Pt ₃ (Ni,X) Nanoparticles Using Transition Metal Additions. <i>ECS Meeting Abstracts</i> , 2020, MA2020-02, 2295-2295.	0.0	0

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91	Synthesis and Electrocatalytic Activity of Pt-Ni Nanowire. ECS Meeting Abstracts, 2020, MA2020-02, 2294-2294.	0.0	0
92	<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
93	(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
94	(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
95	(Digital Presentation) Improving Oxygen Evolution Reaction Performance and Durability Using Rhombic Dodecahedral Pt ₃ (Ni,X) Nanoparticles with Metal Oxide Supports. ECS Meeting Abstracts, 2022, MA2022-01, 1358-1358.	0.0	0