Yoshiyuki Kuroda

List of Publications by Year
in descending order

86	1,238	394286 19	395590 33
papers	citations	h-index	g-index

94	94	94	1458
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Heat and Mass Balance Analysis of 130-W Active-type Direct-methanol Fuel Cell. Electrochemistry, 2022, 90, 017007-017007.	0.6	0
2	A Novel Evaluation Method of Powder Electrocatalyst for Gas Evolution Reaction. Electrochemistry, 2022, 90, 017012-017012.	0.6	2
3	Sample-efficient parameter exploration of the powder film drying process using experiment-based Bayesian optimization. Scientific Reports, 2022, 12, 1615.	1.6	7
4	Improvement of Time-zero Analysis Method in Activity Evaluation of Powder Electrocatalyst for Gas Evolution Reaction. Electrochemistry, 2022, 90, 047004-047004.	0.6	1
5	Degradation Analysis of Pt/Nbâ€“Ti₄O₇ as PEFC Cathode Catalysts with Controlled Arc Plasma-deposited Platinum Content. Electrochemistry, 2022, 90, 057004-057004.	0.6	2
6	Effects of operation and shutdown parameters and electrode materials on the reverse current phenomenon in alkaline water analyzers. Journal of Power Sources, 2022, 535, 231454.	4.0	20
7	Development of highly alkaline stable anion conductive polymers with fluorene backbone for water electrolysis. Polymers for Advanced Technologies, 2022, 33, 2863-2871.	1.6	2
8	Î²-FeOOH nanorod as a highly active and durable self-repairing anode catalyst for alkaline water electrolysis powered by renewable energy. Journal of Sol-Gel Science and Technology, 2022, 104, 647-658.	1.1	10
9	(Invited) Leak Current Analysis of Stop Operation and Its Modeling for the Development of Bipolar Alkaline Water Electrolyzer Electrodes. ECS Meeting Abstracts, 2022, MA2022-01, 1344-1344.	0.0	0
10	Synthesis of Cristobalite Containing Ordered Interstitial Mesopores using Crystallization of Silica Colloidal Crystals. Chemistry - an Asian Journal, 2021, 16, 207-214.	1.7	1
11	Direct bottom-up synthesis of size-controlled monodispersed single-layer magnesium hydroxide nanosheets modified with tripodal ligands. Dalton Transactions, 2021, 50, 3121-3126.	1.6	5
12	A New Accelerated Durability Test Protocol for Water Oxidation Electrocatalysts of Renewable Energy Powered Alkaline Water Electrolyzers. Electrochemistry, 2021, 89, 186-191.	0.6	25
13	Practical and Reliable Methanol Concentration Sensor for Direct Methanol Fuel Cells. Electrochemistry, 2021, 89, 250-255.	0.6	1
14	Hydrolysis of Methoxylated Nickel Hydroxide Leading to Single-Layer Ni(OH)₂ Nanosheets. Inorganic Chemistry, 2021, 60, 7094-7100.	1.9	3
15	Control of surface area and conductivity of niobium-added titanium oxides as durable supports for cathode of polymer electrolyte fuel cells. Materials and Design, 2021, 203, 109623.	3.3	7
16	Noble Metal-Added Titanate Nanosheets for PEFC Cathode. ECS Transactions, 2021, 104, 337-344.	0.3	0
17	Parameter Optimization in the Drying Process of Catalyst Ink for PEFC Electrode Films with Few Cracks. ECS Transactions, 2021, 104, 17-23.	0.3	2
18	Hydrogen-bonding-induced Layered Assembly of Cage Siloxanes Modified with Diisopropylsilanol Groups. Chemistry Letters, 2021, 50, 1770-1772.	0.7	3

#	Article	IF	Citations
19	Oxygen evolution reaction (OER) at nanostructured metal oxide electrocatalysts in water electrolyzers. , 2021, , 61-81.		2
20	Degradation of Ni-Co Coated Ni Oxygen Evolution Electrodes in Alkaline Water Electrolysis Using Accelerated Durability Test Based on Reverse Current Phenomenon. ECS Meeting Abstracts, 2021, MA2021-02, 1728-1728.	0.0	0
21	Structure and Activity of Electrolytically Deposited Hybrid Cobalt Hydroxide Nanosheet for Self-Repairing Oxygen Evolution Reaction Catalysts. ECS Meeting Abstracts, 2021, MA2021-02, 1725-1725.	0.0	0
22	Evaluation of Factors for Promoting Bubble Detachment from Anodes for Alkaline Water Electrolysis. ECS Meeting Abstracts, 2021, MA2021-02, 1735-1735.	0.0	0
23	Evaluation of Anode Porous Transport Layer Using Polarization Separation Method on PEM Water Electrolysis. ECS Meeting Abstracts, 2021, MA2021-02, 1731-1731.	0.0	0
24	Noble Metal-Added Titanate Nanosheets for PEFC Cathode. ECS Meeting Abstracts, 2021, MA2021-02, 1153-1153.	0.0	0
25	Parameter Optimization in the Drying Process of Catalyst Ink for PEFC Electrode Films with Few Cracks. ECS Meeting Abstracts, 2021, MA2021-02, 1300-1300.	0.0	0
26	In Situ X-Ray Diffraction Study of Iridium Crystalline Structure Under Working Conditions of Proton Exchange Membrane Water Electrolysis. ECS Meeting Abstracts, 2021, MA2021-02, 1275-1275.	0.0	0
27	Niobium-added titanium oxides powders as non-noble metal cathodes for polymer electrolyte fuel cells â€“ Electrochemical evaluation and effect of added amount of niobium. International Journal of Hydrogen Energy, 2020, 45, 5438-5448.	3.8	7
28	Selective Covalent Modification of Layered Double Hydroxide Nanoparticles with Tripodal Ligands on Outer and Interlayer Surfaces. Inorganic Chemistry, 2020, 59, 6110-6119.	1.9	13
29	Measurement of powdery oxygen evolution reaction catalyst under practical current density using pressure-bonded electrodes. Electrochimica Acta, 2020, 353, 136544.	2.6	4
30	Current Measurement and Electrochemical Characterization of Gas Evolution Reactions on a Rotating Ring-Disk Electrode. Electrocatalysis, 2020, 11, 301-308.	1.5	2
31	(Invited) Reverse Current Behavior and ADT Protocol for Start & Stop Operation of Bipolar Alkaline Water Electrolyzer. ECS Meeting Abstracts, 2020, MA2020-01, 1835-1835.	0.0	0
32	Factors Affecting ORR Activity of Nb-Added TiOx Catalyst Using Carbon Support for PEFC. ECS Transactions, 2020, 98, 555-563.	0.3	0
33	Highly Active Self-Repairing Anode Catalyst for Alkaline Water Electrolysis Using Ni-Based Hybrid Nanosheets. ECS Meeting Abstracts, 2020, MA2020-02, 1544-1544.	0.0	0
34	Factors Affecting ORR Activity of Nb-Added TiO_x Catalyst Using Carbon Support for PEFC. ECS Meeting Abstracts, 2020, MA2020-02, 2291-2291.	0.0	0
35	Pt/TiO_x Cathode Catalysts for Polymer Electrolyte Fuel Cells. ECS Meeting Abstracts, 2020, MA2020-02, 2296-2296.	0.0	0
36	Formation of silicate nanoscrolls through solvothermal treatment of layered octosilicate intercalated with organoammonium ions. Nanoscale, 2019, 11, 12924-12931.	2.8	5

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37	Templated Synthesis of Carbon-Free Mesoporous MagnÃ©li-Phase Titanium Suboxide. Electrocatalysis, 2019, 10, 459-465.	1.5	6
38	Self-repairing hybrid nanosheet anode catalysts for alkaline water electrolysis connected with fluctuating renewable energy. Electrochimica Acta, 2019, 323, 134812.	2.6	31
39	Synthesis and crystal structure of double-three ring (D3R)-type cage siloxanes modified with dimethylsilanol groups. Dalton Transactions, 2019, 48, 1969-1975.	1.6	7
40	Titanium Oxide Nano-Particles as Supports of Cathode Catalysts for Polymer Electrolyte Fuel Cells. ECS Transactions, 2019, 92, 485-491.	0.3	1
41	Effect of Nitrogen Doping on Oxygen Reduction Activity of TiO2 in Acidic Media. ECS Transactions, 2019, 92, 613-620.	0.3	1
42	Titanium Oxide Nano-Particles as Supports of Cathode Catalysts for Polymer Electrolyte Fuel Cells. ECS Meeting Abstracts, 2019, , .	0.0	0
43	Effect of Nitrogen Doping on Oxygen Reduction Activity of TiO2 in Acidic Media. ECS Meeting Abstracts, 2019, , .	0.0	0
44	Oxygen Reduction Activity of Nb-Doped Titanate Nanosheets in an Acidic Electrolyte. ECS Meeting Abstracts, 2019, , .	0.0	0
45	Formation of Single-Digit Nanometer Scale Silica Nanoparticles by Evaporation-Induced Self-Assembly. Langmuir, 2018, 34, 1711-1717.	1.6	9
46	In situsynthesis of magnesium hydroxides modified with tripodal ligands in an organic medium. Dalton Transactions, 2018, 47, 3074-3083.	1.6	10
47	Preparation of Siloxaneâ€Based Microporous Crystals from Hydrogenâ€Bonded Molecular Crystals of Cage Siloxanes. Chemistry - A European Journal, 2018, 24, 17033-17038.	1.7	21
48	Oxygen Reduction Activity of TiO2 Single Crystals in Acidic Media. ECS Transactions, 2018, 86, 549-558.	0.3	1
49	Factors affecting oxygen reduction activity of Nb2O5-doped TiO2 using carbon nanotubes as support in acidic solution. Electrochimica Acta, 2018, 283, 1779-1788.	2.6	14
50	Precise size control of layered double hydroxide nanoparticles through reconstruction using tripodal ligands. Dalton Transactions, 2018, 47, 12884-12892.	1.6	24
51	Oxygen Reduction Activity of TiO2 Single Crystals in Acidic Media. ECS Meeting Abstracts, 2018, , .	0.0	0
52	Self-Assembled Anode Catalysts with Excellent Durability for Alkaline Water Electrolysis Using Novel Hybrid Cobalt Hydroxide Nanosheets. ECS Meeting Abstracts, 2018, , .	0.0	0
53	Precious Metal Oxide Loading Reduction of Dimensionally Stable Electrodes for Oxygen Evolution Reaction. ECS Meeting Abstracts, 2018, , .	0.0	0
54	Direct Synthesis of Highly Designable Hybrid Metal Hydroxide Nanosheets by Using Tripodal Ligands as Oneâ€Sizeâ€Fitsâ€All Modifiers. Chemistry - A European Journal, 2017, 23, 5023-5032.	1.7	24

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55	Direct Synthesis of Highly Designable Hybrid Metal Hydroxide Nanosheets by Using Tripodal Ligands as One-Size-Fits-All Modifiers. Chemistry - A European Journal, 2017, 23, 4949-4949.	1.7	1
56	Preparation of Mesoporous Basic Oxides through Assembly of Monodispersed Mgâ€“Al Layered Double Hydroxide Nanoparticles. Chemistry - A European Journal, 2017, 23, 9362-9368.	1.7	29
57	Thickness control of 3-dimensional mesoporous silica ultrathin films by wet-etching. Nanoscale, 2017, 9, 8321-8329.	2.8	11
58	Synthesis of a Singleâ€Crystalline Macroporous Layered Silicate from a Macroporous UTLâ€Type Zeolite and Its Accelerated Intercalation. Chemistry - A European Journal, 2017, 23, 11022-11029.	1.7	3
59	Topotactic conversion of layered silicate RUB-15 to silica sodalite through interlayer condensation in N-methylformamide. Dalton Transactions, 2017, 46, 10232-10239.	1.6	9
60	Direct Observation of the Outermost Surfaces of Mesoporous Silica Thin Films by High Resolution Ultralow Voltage Scanning Electron Microscopy. Langmuir, 2017, 33, 2148-2156.	1.6	9
61	Nanospace-Mediated Self-Organization of Nanoparticles in Flexible Porous Polymer Templates. Langmuir, 2017, 33, 9137-9143.	1.6	6
62	A Singleâ€Crystalline Mesoporous Quartz Superlattice. Angewandte Chemie - International Edition, 2016, 55, 6008-6012.	7.2	11
63	Rational Lowâ€Temperature Synthesis of Ultrasmall Nanocrystalline Manganese Binary Oxide Catalysts under Controlled Metal Cation Hydration in Organic Media. ChemNanoMat, 2016, 2, 297-306.	1.5	7
64	A Singleâ€Crystalline Mesoporous Quartz Superlattice. Angewandte Chemie, 2016, 128, 6112-6116.	1.6	2
65	A Mesoporous Superlattice Consisting of Alternately Stacking Interstitial Nanospace within Binary Silica Colloidal Crystals. Angewandte Chemie - International Edition, 2016, 55, 10702-10706.	7.2	4
66	A Mesoporous Superlattice Consisting of Alternately Stacking Interstitial Nanospace within Binary Silica Colloidal Crystals. Angewandte Chemie, 2016, 128, 10860-10864.	1.6	0
67	Effective use of flexible low-dimensional colloidal particles and colloidal crystals for the control of hierarchically porous materials. Journal of the Ceramic Society of Japan, 2015, 123, 853-861.	0.5	4
68	Synthesis of ultrasmall Liâ€“Mn spinel oxides exhibiting unusual ion exchange, electrochemical and catalytic properties. Scientific Reports, 2015, 5, 15011.	1.6	17
69	Relationship between Aggregated Structures and Dispersibility of Layered Double Hydroxide Nanoparticles ca. 10 nm in Size and Their Application to Ultrafast Removal of Aqueous Anionic Dye. Bulletin of the Chemical Society of Japan, 2015, 88, 1765-1772.	2.0	14
70	The Critical Effect of Niobium Doping on the Formation of Mesostructured TiO₂: Singleâ€Crystalline Ordered Mesoporous Nbâ€TiO₂ and Plateâ€like Nbâ€TiO₂ with Ordered Mesoscale Dimples. Chemistry - A European Journal, 2015, 21, 13073-13079.	1.7	14
71	Regular assembly of cage siloxanes by hydrogen bonding of dimethylsilanol groups. Chemical Communications, 2015, 51, 11034-11037.	2.2	35
72	Electron Microscopy Study of Binary Nanocolloidal Crystals with ico-AB₁₃ Structure Made of Monodisperse Silica Nanoparticles. Journal of Physical Chemistry C, 2014, 118, 15004-15010.	1.5	5

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73	A discrete octahedrally shaped [Ag₆]⁴⁺cluster encapsulated within silicotungstate ligands. Chemical Communications, 2013, 49, 376-378.	2.2	76
74	Heterogeneously Catalyzed Aerobic Crossâ€Dehydrogenative Coupling of Terminal Alkynes and Monohydrosilanes by Gold Supported on OMSâ€2. Angewandte Chemie - International Edition, 2013, 52, 5627-5630.	7.2	60
75	Tripodal Ligand-Stabilized Layered Double Hydroxide Nanoparticles with Highly Exchangeable CO₃^{2â€“}. Chemistry of Materials, 2013, 25, 2291-2296.	3.2	97
76	Selective Cleavage of Periodic Mesoscale Structures: Two-Dimensional Replication of Binary Colloidal Crystals into Dimpled Gold Nanoplates. Journal of the American Chemical Society, 2012, 134, 8684-8692.	6.6	34
77	Uniform and high dispersion of gold nanoparticles on imogolite nanotubes and assembly into morphologically controlled materials. Applied Clay Science, 2012, 55, 10-17.	2.6	20
78	Diamondâ€Shaped [Ag₄]⁴⁺ Cluster Encapsulated by Silicotungstate Ligands: Synthesis and Catalysis of Hydrolytic Oxidation of Silanes. Angewandte Chemie - International Edition, 2012, 51, 2434-2437.	7.2	122
79	One-Step Exfoliation of Kaolinites and Their Transformation into Nanoscrolls. Langmuir, 2011, 27, 2028-2035.	1.6	151
80	Formation of Hierarchically Porous Hollow Spheres Composed of Dehydroxylated Imogolite and Carbonaceous Materials. Bulletin of the Chemical Society of Japan, 2011, 84, 49-51.	2.0	7
81	Expansion of Intertubular Mesopores of Imogolite Nanotubes by Thermal Decomposition of an Imogoliteâ€“Poly(sodium 4-styrenesulfonate) Composite. Chemistry Letters, 2011, 40, 46-48.	0.7	13
82	Morphosynthesis of Nanostructured Gold Crystals by Utilizing Interstices in Periodically Arranged Silica Nanoparticles as a Flexible Reaction Field. Angewandte Chemie - International Edition, 2010, 49, 6993-6997.	7.2	46
83	Integrated structural control of cage-type mesoporous platinum possessing both tunable large mesopores and variable surface structures by block copolymer-assisted Pt deposition in a hard-template. Chemical Communications, 2010, 46, 1827-1829.	2.2	57
84	Facile patterning of assembled silica nanoparticles with a closely packed arrangement through guided growth. Journal of Materials Chemistry, 2009, 19, 1964.	6.7	16
85	Layer-by-layer assembly of imogolite nanotubes and polyelectrolytes into core-shell particles and their conversion to hierarchically porous spheres. Science and Technology of Advanced Materials, 2008, 9, 025018.	2.8	20
86	Fabrication of Hierarchically Ordered Porous Films Composed of Imogolite via Colloidal Templating. Journal of the Ceramic Society of Japan, 2007, 115, 233-236.	1.3	13