

Yoshiyuki Kuroda

List of Publications by Year in descending order

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86
papers

1,238
citations

394286

19
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33
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94
all docs

94
docs citations

94
times ranked

1458
citing authors

#	ARTICLE	IF	CITATIONS
1	One-Step Exfoliation of Kaolinites and Their Transformation into Nanoscrolls. <i>Langmuir</i> , 2011, 27, 2028-2035.	1.6	151
2	Diamond-shaped $[Ag_4]^{4+}$ Cluster Encapsulated by Silicotungstate Ligands: Synthesis and Catalysis of Hydrolytic Oxidation of Silanes. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 2434-2437.	7.2	122
3	Tripodal Ligand-Stabilized Layered Double Hydroxide Nanoparticles with Highly Exchangeable CO_3^{2-} . <i>Chemistry of Materials</i> , 2013, 25, 2291-2296.	3.2	97
4	A discrete octahedrally shaped $[Ag_6]^{4+}$ cluster encapsulated within silicotungstate ligands. <i>Chemical Communications</i> , 2013, 49, 376-378.	2.2	76
5	Heterogeneously Catalyzed Aerobic Cross-Dehydrogenative Coupling of Terminal Alkynes and Monohydrosilanes by Gold Supported on OMS ₂ . <i>Angewandte Chemie - International Edition</i> , 2013, 52, 5627-5630.	7.2	60
6	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. <i>Chemical Communications</i> , 2010, 46, 1827-1829.	2.2	57
7	Morphosynthesis of Nanostructured Gold Crystals by Utilizing Interstices in Periodically Arranged Silica Nanoparticles as a Flexible Reaction Field. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 6993-6997.	7.2	46
8	Regular assembly of cage siloxanes by hydrogen bonding of dimethylsilanol groups. <i>Chemical Communications</i> , 2015, 51, 11034-11037.	2.2	35
9	Selective Cleavage of Periodic Mesoscale Structures: Two-Dimensional Replication of Binary Colloidal Crystals into Dimpled Gold Nanoplates. <i>Journal of the American Chemical Society</i> , 2012, 134, 8684-8692.	6.6	34
10	Self-repairing hybrid nanosheet anode catalysts for alkaline water electrolysis connected with fluctuating renewable energy. <i>Electrochimica Acta</i> , 2019, 323, 134812.	2.6	31
11	Preparation of Mesoporous Basic Oxides through Assembly of Monodispersed $Mg-Al$ Layered Double Hydroxide Nanoparticles. <i>Chemistry - A European Journal</i> , 2017, 23, 9362-9368.	1.7	29
12	A New Accelerated Durability Test Protocol for Water Oxidation Electrocatalysts of Renewable Energy Powered Alkaline Water Electrolyzers. <i>Electrochemistry</i> , 2021, 89, 186-191.	0.6	25
13	Direct Synthesis of Highly Designable Hybrid Metal Hydroxide Nanosheets by Using Tripodal Ligands as One-Size-Fits-All Modifiers. <i>Chemistry - A European Journal</i> , 2017, 23, 5023-5032.	1.7	24
14	Precise size control of layered double hydroxide nanoparticles through reconstruction using tripodal ligands. <i>Dalton Transactions</i> , 2018, 47, 12884-12892.	1.6	24
15	Preparation of Siloxane-Based Microporous Crystals from Hydrogen-Bonded Molecular Crystals of Cage Siloxanes. <i>Chemistry - A European Journal</i> , 2018, 24, 17033-17038.	1.7	21
16	Layer-by-layer assembly of imogolite nanotubes and polyelectrolytes into core-shell particles and their conversion to hierarchically porous spheres. <i>Science and Technology of Advanced Materials</i> , 2008, 9, 025018.	2.8	20
17	Uniform and high dispersion of gold nanoparticles on imogolite nanotubes and assembly into morphologically controlled materials. <i>Applied Clay Science</i> , 2012, 55, 10-17.	2.6	20
18	Effects of operation and shutdown parameters and electrode materials on the reverse current phenomenon in alkaline water analyzers. <i>Journal of Power Sources</i> , 2022, 535, 231454.	4.0	20

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19	Synthesis of ultrasmall Li ⁺ /Mn spinel oxides exhibiting unusual ion exchange, electrochemical and catalytic properties. <i>Scientific Reports</i> , 2015, 5, 15011.	1.6	17
20	Facile patterning of assembled silica nanoparticles with a closely packed arrangement through guided growth. <i>Journal of Materials Chemistry</i> , 2009, 19, 1964.	6.7	16
21	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. <i>Bulletin of the Chemical Society of Japan</i> , 2015, 88, 1765-1772.	2.0	14
22	The Critical Effect of Niobium Doping on the Formation of Mesostructured TiO ₂ : Single-Crystalline Ordered Mesoporous Nb ⁵⁺ /TiO ₂ and Plate-like Nb ⁵⁺ /TiO ₂ with Ordered Mesoscale Dimples. <i>Chemistry - A European Journal</i> , 2015, 21, 13073-13079.	1.7	14
23	Factors affecting oxygen reduction activity of Nb ₂ O ₅ -doped TiO ₂ using carbon nanotubes as support in acidic solution. <i>Electrochimica Acta</i> , 2018, 283, 1779-1788.	2.6	14
24	Fabrication of Hierarchically Ordered Porous Films Composed of Imogolite via Colloidal Templating. <i>Journal of the Ceramic Society of Japan</i> , 2007, 115, 233-236.	1.3	13
25	Expansion of Intertubular Mesopores of Imogolite Nanotubes by Thermal Decomposition of an Imogolite-Poly(sodium 4-styrenesulfonate) Composite. <i>Chemistry Letters</i> , 2011, 40, 46-48.	0.7	13
26	Selective Covalent Modification of Layered Double Hydroxide Nanoparticles with Tripodal Ligands on Outer and Interlayer Surfaces. <i>Inorganic Chemistry</i> , 2020, 59, 6110-6119.	1.9	13
27	A Single-Crystalline Mesoporous Quartz Superlattice. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 6008-6012.	7.2	11
28	Thickness control of 3-dimensional mesoporous silica ultrathin films by wet-etching. <i>Nanoscale</i> , 2017, 9, 8321-8329.	2.8	11
29	<i>In situ</i> synthesis of magnesium hydroxides modified with tripodal ligands in an organic medium. <i>Dalton Transactions</i> , 2018, 47, 3074-3083.	1.6	10
30	Î ² -FeOOH nanorod as a highly active and durable self-repairing anode catalyst for alkaline water electrolysis powered by renewable energy. <i>Journal of Sol-Gel Science and Technology</i> , 2022, 104, 647-658.	1.1	10
31	Topotactic conversion of layered silicate RUB-15 to silica sodalite through interlayer condensation in N-methylformamide. <i>Dalton Transactions</i> , 2017, 46, 10232-10239.	1.6	9
32	Direct Observation of the Outermost Surfaces of Mesoporous Silica Thin Films by High Resolution Ultralow Voltage Scanning Electron Microscopy. <i>Langmuir</i> , 2017, 33, 2148-2156.	1.6	9
33	Formation of Single-Digit Nanometer Scale Silica Nanoparticles by Evaporation-Induced Self-Assembly. <i>Langmuir</i> , 2018, 34, 1711-1717.	1.6	9
34	Formation of Hierarchically Porous Hollow Spheres Composed of Dehydroxylated Imogolite and Carbonaceous Materials. <i>Bulletin of the Chemical Society of Japan</i> , 2011, 84, 49-51.	2.0	7
35	Rational Low-Temperature Synthesis of Ultrasmall Nanocrystalline Manganese Binary Oxide Catalysts under Controlled Metal Cation Hydration in Organic Media. <i>ChemNanoMat</i> , 2016, 2, 297-306.	1.5	7
36	Synthesis and crystal structure of double-three ring (D3R)-type cage siloxanes modified with dimethylsilanol groups. <i>Dalton Transactions</i> , 2019, 48, 1969-1975.	1.6	7

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37	Niobium-added titanium oxides powders as non-noble metal cathodes for polymer electrolyte fuel cells – Electrochemical evaluation and effect of added amount of niobium. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 5438-5448.	3.8	7
38	Control of surface area and conductivity of niobium-added titanium oxides as durable supports for cathode of polymer electrolyte fuel cells. <i>Materials and Design</i> , 2021, 203, 109623.	3.3	7
39	Sample-efficient parameter exploration of the powder film drying process using experiment-based Bayesian optimization. <i>Scientific Reports</i> , 2022, 12, 1615.	1.6	7
40	Nanospace-Mediated Self-Organization of Nanoparticles in Flexible Porous Polymer Templates. <i>Langmuir</i> , 2017, 33, 9137-9143.	1.6	6
41	Templated Synthesis of Carbon-Free Mesoporous Magnéli-Phase Titanium Suboxide. <i>Electrocatalysis</i> , 2019, 10, 459-465.	1.5	6
42	Electron Microscopy Study of Binary Nanocolloidal Crystals with AB_{13} Structure Made of Monodisperse Silica Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2014, 118, 15004-15010.	1.5	5
43	Formation of silicate nanoscrolls through solvothermal treatment of layered octosilicate intercalated with organoammonium ions. <i>Nanoscale</i> , 2019, 11, 12924-12931.	2.8	5
44	Direct bottom-up synthesis of size-controlled monodispersed single-layer magnesium hydroxide nanosheets modified with tripodal ligands. <i>Dalton Transactions</i> , 2021, 50, 3121-3126.	1.6	5
45	Effective use of flexible low-dimensional colloidal particles and colloidal crystals for the control of hierarchically porous materials. <i>Journal of the Ceramic Society of Japan</i> , 2015, 123, 853-861.	0.5	4
46	A Mesoporous Superlattice Consisting of Alternately Stacking Interstitial Nanospace within Binary Silica Colloidal Crystals. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 10702-10706.	7.2	4
47	Measurement of powdery oxygen evolution reaction catalyst under practical current density using pressure-bonded electrodes. <i>Electrochimica Acta</i> , 2020, 353, 136544.	2.6	4
48	Synthesis of a Single-Crystalline Macroporous Layered Silicate from a Macroporous UTL-Type Zeolite and Its Accelerated Intercalation. <i>Chemistry - A European Journal</i> , 2017, 23, 11022-11029.	1.7	3
49	Hydrolysis of Methoxylated Nickel Hydroxide Leading to Single-Layer $Ni(OH)_2$ Nanosheets. <i>Inorganic Chemistry</i> , 2021, 60, 7094-7100.	1.9	3
50	Hydrogen-bonding-induced Layered Assembly of Cage Siloxanes Modified with Diisopropylsilanol Groups. <i>Chemistry Letters</i> , 2021, 50, 1770-1772.	0.7	3
51	A Single-Crystalline Mesoporous Quartz Superlattice. <i>Angewandte Chemie</i> , 2016, 128, 6112-6116.	1.6	2
52	Current Measurement and Electrochemical Characterization of Gas Evolution Reactions on a Rotating Ring-Disk Electrode. <i>Electrocatalysis</i> , 2020, 11, 301-308.	1.5	2
53	Parameter Optimization in the Drying Process of Catalyst Ink for PEFC Electrode Films with Few Cracks. <i>ECS Transactions</i> , 2021, 104, 17-23.	0.3	2
54	Oxygen evolution reaction (OER) at nanostructured metal oxide electrocatalysts in water electrolyzers. , 2021, , 61-81.		2

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55	A Novel Evaluation Method of Powder Electrocatalyst for Gas Evolution Reaction. <i>Electrochemistry</i> , 2022, 90, 017012-017012.	0.6	2
56	Degradation Analysis of Pt/Nb ⁴⁺ /O ⁷⁺ as PEFC Cathode Catalysts with Controlled Arc Plasma-deposited Platinum Content. <i>Electrochemistry</i> , 2022, 90, 057004-057004.	0.6	2
57	Development of highly alkaline stable anion conductive polymers with fluorene backbone for water electrolysis. <i>Polymers for Advanced Technologies</i> , 2022, 33, 2863-2871.	1.6	2
58	Direct Synthesis of Highly Designable Hybrid Metal Hydroxide Nanosheets by Using Tripodal Ligands as One-Size-Fits-All Modifiers. <i>Chemistry - A European Journal</i> , 2017, 23, 4949-4949.	1.7	1
59	Oxygen Reduction Activity of TiO ₂ Single Crystals in Acidic Media. <i>ECS Transactions</i> , 2018, 86, 549-558.	0.3	1
60	Titanium Oxide Nano-Particles as Supports of Cathode Catalysts for Polymer Electrolyte Fuel Cells. <i>ECS Transactions</i> , 2019, 92, 485-491.	0.3	1
61	Effect of Nitrogen Doping on Oxygen Reduction Activity of TiO ₂ in Acidic Media. <i>ECS Transactions</i> , 2019, 92, 613-620.	0.3	1
62	Synthesis of Cristobalite Containing Ordered Interstitial Mesopores using Crystallization of Silica Colloidal Crystals. <i>Chemistry - an Asian Journal</i> , 2021, 16, 207-214.	1.7	1
63	Practical and Reliable Methanol Concentration Sensor for Direct Methanol Fuel Cells. <i>Electrochemistry</i> , 2021, 89, 250-255.	0.6	1
64	Improvement of Time-zero Analysis Method in Activity Evaluation of Powder Electrocatalyst for Gas Evolution Reaction. <i>Electrochemistry</i> , 2022, 90, 047004-047004.	0.6	1
65	A Mesoporous Superlattice Consisting of Alternately Stacking Interstitial Nanospace within Binary Silica Colloidal Crystals. <i>Angewandte Chemie</i> , 2016, 128, 10860-10864.	1.6	0
66	Noble Metal-Added Titanate Nanosheets for PEFC Cathode. <i>ECS Transactions</i> , 2021, 104, 337-344.	0.3	0
67	Oxygen Reduction Activity of TiO ₂ Single Crystals in Acidic Media. <i>ECS Meeting Abstracts</i> , 2018, , .	0.0	0
68	Self-Assembled Anode Catalysts with Excellent Durability for Alkaline Water Electrolysis Using Novel Hybrid Cobalt Hydroxide Nanosheets. <i>ECS Meeting Abstracts</i> , 2018, , .	0.0	0
69	Precious Metal Oxide Loading Reduction of Dimensionally Stable Electrodes for Oxygen Evolution Reaction. <i>ECS Meeting Abstracts</i> , 2018, , .	0.0	0
70	Titanium Oxide Nano-Particles as Supports of Cathode Catalysts for Polymer Electrolyte Fuel Cells. <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	0
71	Effect of Nitrogen Doping on Oxygen Reduction Activity of TiO ₂ in Acidic Media. <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	0
72	Oxygen Reduction Activity of Nb-Doped Titanate Nanosheets in an Acidic Electrolyte. <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	0

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73	(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
74	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
75	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
76	Evaluation of Factors for Promoting Bubble Detachment from Anodes for Alkaline Water Electrolysis. ECS Meeting Abstracts, 2021, MA2021-02, 1735-1735.	0.0	0
77	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
78	Noble Metal-Added Titanate Nanosheets for PEFC Cathode. ECS Meeting Abstracts, 2021, MA2021-02, 1153-1153.	0.0	0
79	Factors Affecting ORR Activity of Nb-Added TiO _x Catalyst Using Carbon Support for PEFC. ECS Transactions, 2020, 98, 555-563.	0.3	0
80	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
81	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
82	Pt/TiO _x Cathode Catalysts for Polymer Electrolyte Fuel Cells. ECS Meeting Abstracts, 2020, MA2020-02, 2296-2296.	0.0	0
83	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
84	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
85	Heat and Mass Balance Analysis of 130-W Active-type Direct-methanol Fuel Cell. Electrochemistry, 2022, 90, 017007-017007.	0.6	0
86	(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