Masafumi Harada

List of Publications by Year
in descending order

79	3,285	147726	149623
papers	citations	31 h-index	56 g-index

80	80	80	3539
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Catalytic activity and structural analysis of polymer-protected gold-palladium bimetallic clusters prepared by the simultaneous reduction of hydrogen tetrachloroaurate and palladium dichloride. The Journal of Physical Chemistry, 1992, 96, 9927-9933.	2.9	343
2	Structural analysis of polymer-protected palladium/platinum bimetallic clusters as dispersed catalysts by using extended x-ray absorption fine structure spectroscopy. The Journal of Physical Chemistry, 1991, 95, 7448-7453.	2.9	310
3	Catalytic activity and structural analysis of polymer-protected gold/palladium bimetallic clusters prepared by the successive reduction of hydrogen tetrachloroaurate(III) and palladium dichloride. The Journal of Physical Chemistry, 1993, 97, 5103-5114.	2.9	163
4	Syntheses, structural characterization and photophysical properties of 4-(2-pyridyl)-1,2,3-triazole rhenium(i) complexes. Dalton Transactions, 2008, , 3292.	1.6	131
5	Structural analysis of polymer-protected platinum/rhodium bimetallic clusters using extended x-ray absorption fine structure spectroscopy. Importance of microclusters for the formation of bimetallic clusters. The Journal of Physical Chemistry, 1994, 98, 2653-2662.	2.9	106
6	Mechanism of Silver Particle Formation during Photoreduction Using In Situ Time-Resolved SAXS Analysis. Langmuir, 2010, 26, 17896-17905.	1.6	93
7	Nucleation and Aggregative Growth Process of Platinum Nanoparticles Studied by in Situ Quick XAFS Spectroscopy. Langmuir, 2012, 28, 2415-2428.	1.6	91
8	Nucleation and Growth of Metal Nanoparticles during Photoreduction Using In Situ Time-Resolved SAXS Analysis. Journal of Physical Chemistry C, 2011, 115, 14081-14092.	1.5	90
9	Structure of polymer-protected palladium-platinum bimetallic clusters at the oxidized state: extended x-ray absorption fine structure analysis. The Journal of Physical Chemistry, 1992, 96, 9730-9738.	2.9	86
10	Formation Mechanism of Gold Nanoparticles Synthesized by Photoreduction in Aqueous Ethanol Solutions of Polymers Using In Situ Quick Scanning X-ray Absorption Fine Structure and Small-Angle X-ray Scattering. Crystal Growth and Design, 2016, 16, 1200-1212.	1.4	84
11	Incorporation of Metal Nanoparticles into Block Copolymer Nanodomains via in-Situ Reduction of Metal Ions in Microdomain Space. Macromolecules, 1999, 32, 6867-6870.	2.2	82
12	Small-Angle Scattering from Hexagonally Packed Cylindrical Particles with Paracrystalline Distortion. Macromolecules, 1994, 27, 3063-3072.	2.2	81
13	Photochemical Preparation of Poly(N-vinyl-2-pyrrolidone)-Stabilized Platinum Colloids and Their Deposition on Titanium Dioxide. Langmuir, 2005, 21, 2578-2584.	1.6	80
14	Formation Mechanism of Pt Particles by Photoreduction of Pt Ions in Polymer Solutions. Langmuir, 2006, 22, 2371-2377.	1.6	78
15	In Situ Time-Resolved XAFS Studies of Metal Particle Formation by Photoreduction in Polymer Solutions. Langmuir, 2009, 25, 6049-6061.	1.6	73
16	In situ time-resolved XAFS analysis of silver particle formation by photoreduction in polymer solutions. Journal of Colloid and Interface Science, 2009, 337, 427-438.	5.0	68
17	Electronic Structure of Transition Metal Clusters from Density Functional Theory. 1. Transition Metal Dimers. The Journal of Physical Chemistry, 1996, 100, 565-572.	2.9	67
18	Generation of Active Sites for CO Photooxidation on TiO2by Platinum Deposition. Journal of Physical Chemistry B, 2003, 107, 9290-9297.	1.2	66

#	Article	IF	Citations
19	In Situ XAFS Studies of Au Particle Formation by Photoreduction in Polymer Solutions. Langmuir, 2007, 23, 6536-6543.	1.6	59
20	Small-angle x-ray scattering analysis of polymer-protected platinum, rhodium, and platinum/rhodium colloidal dispersions. Journal of Chemical Physics, 1998, 109, 5627-5638.	1.2	47
21	The Polymer-Protected Pdâ€“Pt Bimetallic Clusters Having Catalytic Activity for Selective Hydrogenation of Diene. Preparation and EXAFS Investigation on the Structure. Chemistry Letters, 1990, 19, 815-818.	0.7	45
22	In Situ and Time-Resolved SAXS Studies of Pd Nanoparticle Formation in a Template of Block Copolymer Microdomain Structures. Macromolecules, 2006, 39, 1116-1124.	2.2	44
23	Diffusion of Platinum Ions and Platinum Nanoparticles during Photoreduction Processes Using the Transient Grating Method. Langmuir, 2006, 22, 9142-9149.	1.6	42
24	Cation Distribution in Monodispersed MFe₂O₄ (M = Mn, Fe, Co, Ni, and Zn) Nanoparticles Investigated by X-ray Absorption Fine Structure Spectroscopy: Implications for Magnetic Data Storage, Catalysts, Sensors, and Ferrofluids. ACS Applied Nano Materials, 2020, 3, 8389-8402.	2.4	42
25	Structural Changes of Spinel MCo₂O₄ (M = Mn, Fe, Co, Ni, and Zn) Electrocatalysts during the Oxygen Evolution Reaction Investigated by In Situ X-ray Absorption Spectroscopy. ACS Applied Energy Materials, 2022, 5, 278-294.	2.5	41
26	Relationship Between the Structure of Manganese Oxides on Alumina and Catalytic Activities for Benzene Oxidation with Ozone. Catalysis Letters, 2009, 129, 422-427.	1.4	38
27	Photochemical synthesis of silver particles in Tween 20/water/ionic liquid microemulsions. Journal of Colloid and Interface Science, 2009, 339, 373-381.	5.0	38
28	Synthesis of colloidal dispersions of rhodium nanoparticles under high temperatures and high pressures. Journal of Colloid and Interface Science, 2005, 292, 113-121.	5.0	32
29	Synthesis of poly(isobutyl-co-2,2,2-trifluoroethyl methacrylate) with 5,10,15,20-tetraphenylporphinato platinum(II) moiety as an oxygen-sensing dye for pressure-sensitive paint. Journal of Polymer Science Part A, 2005, 43, 2997-3006.	2.5	32
30	Characterization of metal nanoparticles prepared by photoreduction in aqueous solutions of various surfactants using UVâ€“vis, EXAFS and SAXS. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2009, 349, 176-188.	2.3	32
31	Structural analysis of polymer-protected palladium/rhodium bimetallic clusters using EXAFS spectroscopy. The Journal of Physical Chemistry, 1993, 97, 10742-10749.	2.9	31
32	Preparation of Pt/Rh bimetallic colloidal particles in polymer solutions using borohydride-reduction. Journal of Colloid and Interface Science, 2007, 308, 568-572.	5.0	31
33	Photochemical synthesis of silver particles using water-in-ionic liquid microemulsions in high-pressure CO2. Journal of Colloid and Interface Science, 2010, 343, 537-545.	5.0	31
34	Characterization of water/AOT/benzene microemulsions during photoreduction to produce silver particles. Journal of Colloid and Interface Science, 2010, 343, 423-432.	5.0	30
35	Novel Oxygen Chirality Induced by Asymmetric Coordination of an Ether Oxygen Atom to a Metal Center in a Series of Sugar-Pendant Dipicolylamine Copper(II) Complexes. Inorganic Chemistry, 2006, 45, 1543-1551.	1.9	29
36	Structural changes in alumina-supported manganese oxides during ozone decomposition. Chemical Physics Letters, 2005, 408, 377-380.	1.2	27

#	Article	IF	Citations
37	Oxygenâ€sensing properties of 5,10,15,20â€tetraphenylporphinato platinum(II) and palladium(II) covalently bound on poly(isobutylâ€coâ€2,2,2â€trifluoroethyl methacrylate). Journal of Polymer Science Part A, 2010, 48, 663-670.	2.5	27
38	Microwave-Assisted Polyol Synthesis of Polymer-Protected Monometallic Nanoparticles Prepared in Batch and Continuous-Flow Processing. Industrial & Engineering Chemistry Research, 2016, 55, 5634-5643.	1.8	27
39	Synthesis of platinum nano-particles in high-temperatures and high-pressures fluids. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2003, 231, 131-141.	2.3	26
40	Diffusion of gold ions and gold particles during photoreduction processes probed by the transient grating method. Journal of Colloid and Interface Science, 2009, 332, 373-381.	5.0	26
41	Solvation Structure of a Copper(II) Ion in Protic Ionic Liquids Comprising N-Hexylethylenediamine. Inorganic Chemistry, 2014, 53, 9667-9678.	1.9	23
42	Indium oxide supported Ptâ€“In alloy nanocluster catalysts with enhanced catalytic performance toward oxygen reduction reaction. Journal of Power Sources, 2020, 446, 227332.	4.0	22
43	Synthesis of ruthenium particles by photoreduction in polymer solutions. Journal of Colloid and Interface Science, 2008, 325, 1-6.	5.0	20
44	Influence of the organization of water-in-ionic liquid microemulsions on the size of silver particles during photoreduction. Journal of Colloid and Interface Science, 2013, 406, 94-104.	5.0	19
45	Aggregated structure analysis of polymer-protected platinum/ruthenium colloidal dispersions using EXAFS, HRTEM, and electron diffraction measurements. Journal of Colloid and Interface Science, 2005, 283, 64-78.	5.0	18
46	Synthesis of Pt/Ru bimetallic nanoparticles in high-temperature and high-pressure fluids. Journal of Colloid and Interface Science, 2008, 322, 358-363.	5.0	18
47	Formation of silver nanoparticles from ionic liquids comprising N-alkylethylenediamine: Effects of dissolution modes of the silver(I) ions in the ionic liquids. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2017, 522, 503-513.	2.3	18
48	Microwave-Assisted Polyol Synthesis of Pt/Pd and Pt/Rh Bimetallic Nanoparticles in Polymer Solutions Prepared by Batch and Continuous-Flow Processing. Industrial & Engineering Chemistry Research, 2018, 57, 179-190.	1.8	18
49	Ligand-Stabilized CoO and NiO Nanoparticles for Spintronic Devices with Antiferromagnetic Insulators. ACS Applied Nano Materials, 2020, 3, 2745-2755.	2.4	18
50	Formation of molecular glasses and the aggregation in solutions for lanthanum(iii), calcium(ii), and yttrium(iii) complexes of octanoyl-dl-alaninate. Dalton Transactions, 2008, , 1698.	1.6	17
51	Small-angle X-ray scattering study of metal nanoparticles prepared by photoreduction in aqueous solutions of sodium dodecyl sulfate. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2009, 345, 41-50.	2.3	17
52	In Situ Quick X-ray Absorption Fine Structure and Small-Angle X-ray Scattering Study of Metal Nanoparticle Growth in Water-in-Oil Microemulsions during Photoreduction. Crystal Growth and Design, 2016, 16, 2860-2873.	1.4	16
53	A â€œCluster-in-Clusterâ€•Structure of the SiO₂-Supported PtPd Clusters. Japanese Journal of Applied Physics, 1993, 32, 448.	0.8	15
54	Sites of protonation and copper(II)-complexation in protic ionic liquids comprised of N-hexylethylenediaminium cation. Journal of Molecular Liquids, 2013, 183, 50-58.	2.3	15

#	Article	IF	Citations
55	Reverse Monte Carlo modeling for local structures of noble metal nanoparticles using high-energy XRD and EXAFS. RSC Advances, 2019, 9, 29511-29521.	1.7	15
56	Structural Analysis of Chelate Resin-Iron Complex by Using Extended X-ray Absorption Fine Structure Spectroscopy. The Journal of Physical Chemistry, 1994, 98, 7967-7975.	2.9	14
57	Aggregation in methanol and formation of molecular glasses for europium(iii) N-acylaminocarboxylates: effects of alkyl chain length and head group. Dalton Transactions, 2009, , 5512.	1.6	14
58	Synthesis of colloidal particles of poly(2-vinylpyridine)-coated palladium and platinum in organic solutions under the high temperatures and high pressures. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2008, 315, 304-310.	2.3	12
59	Transport Properties and Solvation Structure of Mixtures of Carbon Dioxide and Room-Temperature Ionic Liquids. Bulletin of the Chemical Society of Japan, 2011, 84, 70-78.	2.0	12
60	Extended X-Ray Absorption Fine Structure Study on Reaction of Anti-tumor Platinum Complexes with Reduced Glutathione. Chemical and Pharmaceutical Bulletin, 2009, 57, 1107-1109.	0.6	10
61	Tetra-, hexa- and octanuclear copper hydride complexes supported by tridentate phosphine ligands. Dalton Transactions, 2019, 48, 12050-12059.	1.6	10
62	Structural Analysis of Polymer-Protected Pd/Rh Bimetallic Clusters by Using EXAFS Spectroscopy. Japanese Journal of Applied Physics, 1993, 32, 451.	0.8	9
63	Photochemical deposition of platinum on TiO2 by using poly(vinyl alcohol) as an electron donor and a protecting polymer. Catalysis Communications, 2004, 5, 63-67.	1.6	9
64	In situ observation of formation of silver particles in water-in-scCO2 emulsions. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2008, 327, 21-33.	2.3	7
65	Interactions of nickel(II) ions in protic ionic liquids comprising N-hexyl(or) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 342 Td (N-2-e	2.3	7
66	Temperature dependence on the size control of palladium nanoparticles by chemical reduction in nonionic surfactant/ionic liquid hybrid systems. Journal of Molecular Liquids, 2020, 311, 113255.	2.3	7
67	Electro- and photochemical properties of a (Î¼-alkoxo)bis(Î¼-carboxylato)diruthenium complex having two tetraphenylporphinato zinc(ii) moieties. Dalton Transactions, 2004, , 3283-3287.	1.6	6
68	Structure and Photochemical Properties of (Î¼-Alkoxo)bis(Î¼-carboxylato)diruthenium Complexes with Naphthylacetate Ligands. Inorganic Chemistry, 2006, 45, 3048-3056.	1.9	6
69	Templating fabrication and catalysis of platinum nanowires in mesoporous channels of FSM-16. Studies in Surface Science and Catalysis, 2000, , 3041-3046.	1.5	5
70	Properties of Protic Ionic Liquids Comprised of Nâ€Alkyldiethylenetriamine and Their Complexation of Copper(II) Ions. European Journal of Inorganic Chemistry, 2017, 2017, 3744-3754.	1.0	5
71	Highly selective synthesis of multicarbon compounds by carbon dioxide hydrogenation over Pt nanocrystals anchoring Ru clusters. Catalysis Science and Technology, 2022, 12, 3786-3792.	2.1	4
72	On the EXAFS determination of the site for the chemisorption of selenophene on sulfided Niâ€“Mo/Al2O3. Mendeleev Communications, 1996, 6, 121-122.	0.6	2

#	Article	IF	Citations
73	Synthesis of (Î¼-alkoxo)bis(Î¼-carboxylato)diruthenium complex having porphyrin moieties as a potential photo-harvesting functionality. Inorganic Chemistry Communication, 2003, 6, 447-450.	1.8	2
74	SAXS and XAFS Analysis in Forming of Metal Nanoparticles in Water-in-scCO₂ Microemulsions. Solid State Phenomena, 2006, 114, 321-328.	0.3	2
75	Syntheses, structures, and photochemical properties of (Î¼3-O)tris{bis(Î¼-carboxylato)}trimanganese complexes with naphthylacetate ligands with relevance to artificial solar energy-harvesting systems. Inorganica Chimica Acta, 2013, 406, 130-137.	1.2	2
76	Combined Small-Angle Neutron Scattering/Small-Angle X-ray Scattering Analysis for the Characterization of Silver Nanoparticles Prepared via Photoreduction in Water-in-Oil Microemulsions. Langmuir, 2021, 37, 13085-13098.	1.6	1
77	A Synthetic Model for the Possible FeIV2(Î¼-O)2 Core of Methane Monooxygenase Intermediate Q Derived from a Structurally Characterized FeIIIFeIV(Î¼-O)2 Complex. Inorganic Chemistry, 2021, , .	1.9	1
78	Au/Rh Nanoparticles Synthesized under High Temperatures and High Pressures. Chemistry Letters, 2005, 34, 200-201.	0.7	0
79	Synthesis of Noble Metal Nano-particles in Supercritical Fluids. Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu, 2010, 20, 11-18.	0.1	0