

# Masafumi Harada

## List of Publications by Citations

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77 papers	2,920 citations	28 h-index	52 g-index
80 ext. papers	3,076 ext. citations	4.7 avg, IF	5.11 L-index

#	Paper	IF	Citations
77	Catalytic activity and structural analysis of polymer-protected gold-palladium bimetallic clusters prepared by the simultaneous reduction of hydrogen tetrachloroaurate and palladium dichloride. <i>The Journal of Physical Chemistry</i> , <b>1992</b> , 96, 9927-9933		330
76	Structural analysis of polymer-protected palladium/platinum bimetallic clusters as dispersed catalysts by using extended x-ray absorption fine structure spectroscopy. <i>The Journal of Physical Chemistry</i> , <b>1991</b> , 95, 7448-7453		285
75	Catalytic activity and structural analysis of polymer-protected gold/palladium bimetallic clusters prepared by the successive reduction of hydrogen tetrachloroaurate(III) and palladium dichloride. <i>The Journal of Physical Chemistry</i> , <b>1993</b> , 97, 5103-5114		151
74	Syntheses, structural characterization and photophysical properties of 4-(2-pyridyl)-1,2,3-triazole rhenium(I) complexes. <i>Dalton Transactions</i> , <b>2008</b> , 3292-300	4.3	126
73	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. <i>The Journal of Physical Chemistry</i> , <b>1994</b> , 98, 2653-2662		96
72	Mechanism of silver particle formation during photoreduction using in situ time-resolved SAXS analysis. <i>Langmuir</i> , <b>2010</b> , 26, 17896-905	4	85
71	Nucleation and aggregative growth process of platinum nanoparticles studied by in situ quick XAFS spectroscopy. <i>Langmuir</i> , <b>2012</b> , 28, 2415-28	4	81
70	Nucleation and Growth of Metal Nanoparticles during Photoreduction Using In Situ Time-Resolved SAXS Analysis. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 14081-14092	3.8	81
69	Incorporation of Metal Nanoparticles into Block Copolymer Nanodomains via in-Situ Reduction of Metal Ions in Microdomain Space. <i>Macromolecules</i> , <b>1999</b> , 32, 6867-6870	5.5	79
68	Photochemical preparation of poly(N-vinyl-2-pyrrolidone)-stabilized platinum colloids and their deposition on titanium dioxide. <i>Langmuir</i> , <b>2005</b> , 21, 2578-84	4	74
67	Formation mechanism of Pt particles by photoreduction of Pt ions in polymer solutions. <i>Langmuir</i> , <b>2006</b> , 22, 2371-7	4	72
66	Structure of polymer-protected palladium-platinum bimetallic clusters at the oxidized state: extended x-ray absorption fine structure analysis. <i>The Journal of Physical Chemistry</i> , <b>1992</b> , 96, 9730-9738		72
65	Small-Angle Scattering from Hexagonally Packed Cylindrical Particles with Paracrystalline Distortion. <i>Macromolecules</i> , <b>1994</b> , 27, 3063-3072	5.5	70
64	In situ time-resolved XAFS studies of metal particle formation by photoreduction in polymer solutions. <i>Langmuir</i> , <b>2009</b> , 25, 6049-61	4	69
63	In situ time-resolved XAFS analysis of silver particle formation by photoreduction in polymer solutions. <i>Journal of Colloid and Interface Science</i> , <b>2009</b> , 337, 427-38	9.3	66
62	Generation of Active Sites for CO Photooxidation on TiO <sub>2</sub> by Platinum Deposition. <i>Journal of Physical Chemistry B</i> , <b>2003</b> , 107, 9290-9297	3.4	63
61	Electronic Structure of Transition Metal Clusters from Density Functional Theory. 1. Transition Metal Dimers. <i>The Journal of Physical Chemistry</i> , <b>1996</b> , 100, 565-572		63

60	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. <i>Crystal Growth and Design</i> , <b>2016</b> , 16, 1200-1212	3.5	62
59	In situ XAFS studies of Au particle formation by photoreduction in polymer solutions. <i>Langmuir</i> , <b>2007</b> , 23, 6536-43	4	55
58	In Situ and Time-Resolved SAXS Studies of Pd Nanoparticle Formation in a Template of Block Copolymer Microdomain Structures. <i>Macromolecules</i> , <b>2006</b> , 39, 1116-1124	5.5	44
57	The Polymer-Protected PdPt Bimetallic Clusters Having Catalytic Activity for Selective Hydrogenation of Diene. Preparation and EXAFS Investigation on the Structure. <i>Chemistry Letters</i> , <b>1990</b> , 19, 815-818	1.7	43
56	Small-angle x-ray scattering analysis of polymer-protected platinum, rhodium, and platinum/rhodium colloidal dispersions. <i>Journal of Chemical Physics</i> , <b>1998</b> , 109, 5627-5638	3.9	42
55	Diffusion of platinum ions and platinum nanoparticles during photoreduction processes using the transient grating method. <i>Langmuir</i> , <b>2006</b> , 22, 9142-9	4	38
54	Photochemical synthesis of silver particles in Tween 20/water/ionic liquid microemulsions. <i>Journal of Colloid and Interface Science</i> , <b>2009</b> , 339, 373-81	9.3	36
53	Relationship Between the Structure of Manganese Oxides on Alumina and Catalytic Activities for Benzene Oxidation with Ozone. <i>Catalysis Letters</i> , <b>2009</b> , 129, 422-427	2.8	35
52	Synthesis of colloidal dispersions of rhodium nanoparticles under high temperatures and high pressures. <i>Journal of Colloid and Interface Science</i> , <b>2005</b> , 292, 113-21	9.3	32
51	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. <i>Journal of Polymer Science Part A</i> , <b>2005</b> , 43, 2997-3006	2.5	30
50	Characterization of metal nanoparticles prepared by photoreduction in aqueous solutions of various surfactants using UV-vis, EXAFS and SAXS. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2009</b> , 349, 176-188	5.1	28
49	Structural analysis of polymer-protected palladium/rhodium bimetallic clusters using EXAFS spectroscopy. <i>The Journal of Physical Chemistry</i> , <b>1993</b> , 97, 10742-10749		28
48	Photochemical synthesis of silver particles using water-in-ionic liquid microemulsions in high-pressure CO <sub>2</sub> . <i>Journal of Colloid and Interface Science</i> , <b>2010</b> , 343, 537-45	9.3	27
47	Characterization of water/AOT/benzene microemulsions during photoreduction to produce silver particles. <i>Journal of Colloid and Interface Science</i> , <b>2010</b> , 343, 423-32	9.3	27
46	Preparation of Pt/Rh bimetallic colloidal particles in polymer solutions using borohydride-reduction. <i>Journal of Colloid and Interface Science</i> , <b>2007</b> , 308, 568-72	9.3	26
45	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. <i>Inorganic Chemistry</i> , <b>2006</b> , 45, 1543-51	5.1	26
44	Oxygen-sensing properties of 5,10,15,20-tetraphenylporphinato platinum(II) and palladium(II) covalently bound on poly(isobutyl-co-2,2,2-trifluoroethyl methacrylate). <i>Journal of Polymer Science Part A</i> , <b>2010</b> , 48, 663-670	2.5	25
43	Structural changes in alumina-supported manganese oxides during ozone decomposition. <i>Chemical Physics Letters</i> , <b>2005</b> , 408, 377-380	2.5	25

42	Diffusion of gold ions and gold particles during photoreduction processes probed by the transient grating method. <i>Journal of Colloid and Interface Science</i> , <b>2009</b> , 332, 373-81	9.3	23
41	Synthesis of platinum nano-particles in high-temperatures and high-pressures fluids. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2003</b> , 231, 131-141	5.1	23
40	Microwave-Assisted Polyol Synthesis of Polymer-Protected Monometallic Nanoparticles Prepared in Batch and Continuous-Flow Processing. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2016</b> , 55, 5634-5643	3.9	22
39	Solvation structure of a copper(II) ion in protic ionic liquids comprising N-hexylethylenediamine. <i>Inorganic Chemistry</i> , <b>2014</b> , 53, 9667-78	5.1	20
38	Synthesis of ruthenium particles by photoreduction in polymer solutions. <i>Journal of Colloid and Interface Science</i> , <b>2008</b> , 325, 1-6	9.3	19
37	Influence of the organization of water-in-ionic liquid microemulsions on the size of silver particles during photoreduction. <i>Journal of Colloid and Interface Science</i> , <b>2013</b> , 406, 94-104	9.3	18
36	Cation Distribution in Monodispersed MFe <sub>2</sub> O <sub>4</sub> (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. <i>ACS Applied Nano Materials</i> , <b>2020</b> , 3, 8389-8402	5.6	18
35	Formation of silver nanoparticles from ionic liquids comprising N-alkylethylenediamine: Effects of dissolution modes of the silver(I) ions in the ionic liquids. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2017</b> , 522, 503-513	5.1	16
34	Aggregated structure analysis of polymer-protected platinum/ruthenium colloidal dispersions using EXAFS, HRTEM, and electron diffraction measurements. <i>Journal of Colloid and Interface Science</i> , <b>2005</b> , 283, 64-78	9.3	16
33	Small-angle X-ray scattering study of metal nanoparticles prepared by photoreduction in aqueous solutions of sodium dodecyl sulfate. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2009</b> , 345, 41-50	5.1	15
32	Synthesis of Pt/Ru bimetallic nanoparticles in high-temperature and high-pressure fluids. <i>Journal of Colloid and Interface Science</i> , <b>2008</b> , 322, 358-63	9.3	15
31	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. <i>Crystal Growth and Design</i> , <b>2016</b> , 16, 2860-2873	3.5	15
30	Indium oxide supported Pt <sub>10</sub> alloy nanocluster catalysts with enhanced catalytic performance toward oxygen reduction reaction. <i>Journal of Power Sources</i> , <b>2020</b> , 446, 227332	8.9	14
29	Sites of protonation and copper(II)-complexation in protic ionic liquids comprised of N-hexylethylenediaminium cation. <i>Journal of Molecular Liquids</i> , <b>2013</b> , 183, 50-58	6	13
28	Formation of molecular glasses and the aggregation in solutions for lanthanum(III), calcium(II), and yttrium(III) complexes of octanoyl-DL-alaninate. <i>Dalton Transactions</i> , <b>2008</b> , 1698-709	4.3	13
27	A Cluster-in-Cluster Structure of the SiO <sub>2</sub> -Supported PtPd Clusters. <i>Japanese Journal of Applied Physics</i> , <b>1993</b> , 32, 448	1.4	13
26	Structural Analysis of Chelate Resin-Iron Complex by Using Extended X-ray Absorption Fine Structure Spectroscopy. <i>The Journal of Physical Chemistry</i> , <b>1994</b> , 98, 7967-7975		13
25	Synthesis of colloidal particles of poly(2-vinylpyridine)-coated palladium and platinum in organic solutions under the high temperatures and high pressures. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2008</b> , 315, 304-310	5.1	11

24	Microwave-Assisted Polyol Synthesis of Pt/Pd and Pt/Rh Bimetallic Nanoparticles in Polymer Solutions Prepared by Batch and Continuous-Flow Processing. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2018</b> , 57, 179-190	3.9	11
23	Ligand-Stabilized CoO and NiO Nanoparticles for Spintronic Devices with Antiferromagnetic Insulators. <i>ACS Applied Nano Materials</i> , <b>2020</b> , 3, 2745-2755	5.6	10
22	Aggregation in methanol and formation of molecular glasses for europium(III) N-acylaminocarboxylates: effects of alkyl chain length and head group. <i>Dalton Transactions</i> , <b>2009</b> , 5512-423	4.3	10
21	Transport Properties and Solvation Structure of Mixtures of Carbon Dioxide and Room-Temperature Ionic Liquids. <i>Bulletin of the Chemical Society of Japan</i> , <b>2011</b> , 84, 70-78	5.1	9
20	Extended X-ray absorption fine structure study on reaction of anti-tumor platinum complexes with reduced glutathione. <i>Chemical and Pharmaceutical Bulletin</i> , <b>2009</b> , 57, 1107-9	1.9	9
19	Photochemical deposition of platinum on TiO <sub>2</sub> by using poly(vinyl alcohol) as an electron donor and a protecting polymer. <i>Catalysis Communications</i> , <b>2004</b> , 5, 63-67	3.2	9
18	Reverse Monte Carlo modeling for local structures of noble metal nanoparticles using high-energy XRD and EXAFS.. <i>RSC Advances</i> , <b>2019</b> , 9, 29511-29521	3.7	9
17	Interactions of nickel(II) ions in protic ionic liquids comprising N-hexyl(or N-2-ethylhexyl)ethylenediamines. <i>Journal of Molecular Liquids</i> , <b>2016</b> , 214, 77-85	6	7
16	In situ observation of formation of silver particles in water-in-scCO <sub>2</sub> emulsions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2008</b> , 327, 21-33	5.1	7
15	Tetra-, hexa- and octanuclear copper hydride complexes supported by tridentate phosphine ligands. <i>Dalton Transactions</i> , <b>2019</b> , 48, 12050-12059	4.3	6
14	Structure and photochemical properties of (mu-alkoxo)bis(mu-carboxylato)diruthenium complexes with naphthylacetate ligands. <i>Inorganic Chemistry</i> , <b>2006</b> , 45, 3048-56	5.1	6
13	Electro- and photochemical properties of a (mu-alkoxo)bis(mu-carboxylato)diruthenium complex having two tetraphenylporphinato zinc(II) moieties. <i>Dalton Transactions</i> , <b>2004</b> , 3283-7	4.3	6
12	Structural Changes of Spinel MCo <sub>2</sub> O <sub>4</sub> (M = Mn, Fe, Co, Ni, and Zn) Electrocatalysts during the Oxygen Evolution Reaction Investigated by In Situ X-ray Absorption Spectroscopy. <i>ACS Applied Energy Materials</i> ,	6.1	6
11	Templating fabrication and catalysis of platinum nanowires in mesoporous channels of FSM-16. <i>Studies in Surface Science and Catalysis</i> , <b>2000</b> , 3041-3046	1.8	5
10	Temperature dependence on the size control of palladium nanoparticles by chemical reduction in nonionic surfactant/ionic liquid hybrid systems. <i>Journal of Molecular Liquids</i> , <b>2020</b> , 311, 113255	6	4
9	Properties of Protic Ionic Liquids Comprised of N-Alkyldiethylenetriamine and Their Complexation of Copper(II) Ions. <i>European Journal of Inorganic Chemistry</i> , <b>2017</b> , 2017, 3744-3754	2.3	4
8	Structural Analysis of Polymer-Protected Pd/Rh Bimetallic Clusters by Using EXAFS Spectroscopy. <i>Japanese Journal of Applied Physics</i> , <b>1993</b> , 32, 451	1.4	4
7	Syntheses, structures, and photochemical properties of (β-O)tris{bis(μ-carboxylato)}trimanganese complexes with naphthylacetate ligands with relevance to artificial solar energy-harvesting systems. <i>Inorganica Chimica Acta</i> , <b>2013</b> , 406, 130-137	2.7	2

6	SAXS and XAFS Analysis in Forming of Metal Nanoparticles in Water-in-scCO <sub>2</sub> Microemulsions. <i>Solid State Phenomena</i> , <b>2006</b> , 114, 321-328	0.4	2
5	Synthesis of (Etkoxo)bis(Ecarboxylato)diruthenium complex having porphyrin moieties as a potential photo-harvesting functionality. <i>Inorganic Chemistry Communication</i> , <b>2003</b> , 6, 447-450	3.1	2
4	On the EXAFS determination of the site for the chemisorption of selenophene on sulfided Ni <sub>3</sub> Mo/Al <sub>2</sub> O <sub>3</sub> . <i>Mendeleev Communications</i> , <b>1996</b> , 6, 121-122	1.9	2
3	Au/Rh Nanoparticles Synthesized under High Temperatures and High Pressures. <i>Chemistry Letters</i> , <b>2005</b> , 34, 200-201	1.7	
2	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. <i>Langmuir</i> , <b>2021</b> , 37, 13085-13098	4	
1	Synthesis of Noble Metal Nano-particles in Supercritical Fluids. <i>Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu</i> , <b>2010</b> , 20, 11-18	0	