Takao Yamamoto

List of Publications by Citations

75 papers	1,414 citations	23 h-index	33 g-index
78 ext. papers	1,485 ext. citations	3.2 avg, IF	3.73 L-index

#	Paper	IF	Citations
75	Bimetallic nanoparticles of PtM (M=Au, Cu, Ni) supported on iron oxide: Radiolytic synthesis and CO oxidation catalysis. *Applied Catalysis A: General*, **2010**, 387, 195-202	5.1	80
74	Radiation induced synthesis of gold/iron-oxide composite nanoparticles using high-energy electron beam. *Journal of Nanoparticle Research*, **2008**, 10, 1071-1076	2.3	71
73	Magnetic evaluation of nanostructure of gold□ron composite particles synthesized by a reverse micelle method. *Journal of Alloys and Compounds*, **2003**, 359, 46-50	5.7	71
72	Methanol oxidation catalysis and substructure of PtRu bimetallic nanoparticles. *Applied Catalysis A: General*, **2007**, 326, 194-201	5.1	64
71	X-ray and neutron diffraction studies on iron-substituted Z-type hexagonal barium ferrite: Ba3Co2□Fe24+xO41 (x=0□.6). *Journal of Magnetism and Magnetic Materials*, **2003**, 262, 248-257	2.8	57
70	XAFS and XRD study of ceria doped with Pr, Nd or Sm. *Materials Letters*, **2004**, 58, 2076-2081	3.3	56
69	Magnetocaloric effect of rare earth mono-nitrides, TbN and HoN. *Journal of Alloys and Compounds*, **2004**, 376, 17-22	5.7	52
68	Magnetic separation of amino acids by gold/iron-oxide composite nanoparticles synthesized by gamma-ray irradiation. *Journal of Magnetism and Magnetic Materials*, **2005**, 293, 106-110	2.8	48
67	Magnetic Composite Nanoparticle of Au/□Fe2O3Synthesized by Gamma-Ray Irradiation. *Chemistry Letters*, **2003**, 32, 690-691	1.7	40
66	Structural analysis of sonochemically prepared Au/Pd nanoparticles dispersed in porous silica matrix. *Ultrasonics Sonochemistry*, **2005**, 12, 249-54	8.9	37
65	Functionalization of magnetic gold/iron-oxide composite nanoparticles with oligonucleotides and magnetic separation of specific target. *Journal of Magnetism and Magnetic Materials*, **2007**, 311, 255-258	2.8	35
64	Sonochemical preparation of composite nanoparticles of Au/gamma-Fe2O3 and magnetic separation of glutathione. *Ultrasonics Sonochemistry*, **2005**, 12, 191-5	8.9	32
63	CeO2-supported Pt□u alloy nanoparticles synthesized by radiolytic process for highly selective CO oxidation. *International Journal of Hydrogen Energy*, **2012**, 37, 4787-4797	6.7	31
62	□Fe2O3-supported Pt-Cu nanoparticles synthesized by radiolytic process for catalytic CO preferential oxidation. *Applied Catalysis A: General*, **2011**, 406, 43-50	5.1	30
61	Methanol oxidation catalysis and substructure of PtRu/C bimetallic nanoparticles synthesized by a radiolytic process. *Applied Catalysis A: General*, **2011**, 396, 68-75	5.1	30
60	Magnetocaloric effect of mononitride containing gadolinium and dysprosium GdxDy1□N. *Journal of Alloys and Compounds*, **2004**, 364, 53-58	5.7	29
59	Gamma-ray synthesis of magnetic nanocarrier composed of gold and magnetic iron oxide. *Journal of Magnetism and Magnetic Materials*, **2005**, 293, 144-150	2.8	28

58	Effect of support for PtCu bimetallic catalysts synthesized by electron beam irradiation method on preferential CO oxidation. *Applied Catalysis B: Environmental*, **2012**, 126, 306-314	21.8	27
57	Influence of ion substitution on the magnetic structure and permeability of Z-type hexagonal Ba-ferrites: Ba3Co2□Fe24+x□CryO41. *Journal of Magnetism and Magnetic Materials*, **2004**, 284, 369-375	2.8	26
56	Formation of PtRu alloy nanoparticle catalyst by radiolytic process assisted by addition of dl-tartaric acid and its enhanced methanol oxidation activity. *Journal of Nanoparticle Research*, **2011**, 13, 5275-5287	2.3	25
55	Influence of size distribution on the magnetocaloric effect of superparamagnetic gold□magnetite nanocomposite. *Journal of Alloys and Compounds*, **2004**, 365, 281-285	5.7	24
54	Site occupation study of ZnFe2O4 and NiFe2O4 by far-infrared reflectivity. *Journal of Alloys and Compounds*, **2004**, 379, 122-126	5.7	23
53	Detection of Charged Particles Emitted by Electrolytically Induced Cold Nuclear Fusion. *Japanese Journal of Applied Physics*, **1989**, 28, L2021-L2023	1.4	23
52	Superparamagnetic Nanocomposite of Silver/Iron-Oxide by Inert Gas Condensation. *Japanese Journal of Applied Physics*, **1994**, 33, L1301-L1303	1.4	22
51	Comparison of structure and catalytic performance of Pt□o and Pt□u bimetallic catalysts supported on Al2O3 and CeO2 synthesized by electron beam irradiation method for preferential CO oxidation. *International Journal of Hydrogen Energy*, **2013**, 38, 4456-4465	6.7	21
50	Direct Observation of18O Tracer Diffusion in a YBa2Cu3OySingle Crystal by Secondary Ion Mass Spectrometry. *Japanese Journal of Applied Physics*, **1991**, 30, L973-L976	1.4	21
49	Estimation of Magnetic Structures of Z-type Ferrites: (Ba, Sr)3Co2Fe24O41 by Neutron Diffraction. *Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy*, **2003**, 50, 618-625	0.2	20
48	Gamma-ray irradiation effect on corrosion rates of stainless steel, Ti and Ti-5Ta in boiling 9N nitric acid. *Journal of Nuclear Materials*, **1996**, 228, 162-167	3.3	20
47	Dispersibility improvement of gold/iron-oxide composite nanoparticles by polyethylenimine modification. *Journal of Magnetism and Magnetic Materials*, **2009**, 321, 1404-1407	2.8	19
46	Magnetocaloric effect, specific heat and adiabatic temperature change of HoxEr1□N (x = 0.25, 0.5, 0.75). *Journal of Alloys and Compounds*, **2008**, 462, L12-L15	5.7	19
45	Sonochemically synthesized core-shell structured Au□d nanoparticles supported on □Fe2O3 particles. *Journal of Nanoparticle Research*, **2006**, 8, 951-958	2.3	19
44	Radiochemical synthesis of silver nanoparticles onto textile fabrics and their antibacterial activity. *Journal of Nuclear Science and Technology*, **2016**, 53, 1021-1027	1	18
43	Gamma-Ray Irradiation Effect on Loss Increase of Single Mode Optical Fibers, (I). *Journal of Nuclear Science and Technology*, **1989**, 26, 507-515	1	18
42	XAFS study on site occupation of cobalt and iron in Z-type ferrite, Ba3Co2□Fe24+xO41. *Journal of Magnetism and Magnetic Materials*, **2005**, 288, 366-373	2.8	17
41	Study on local structure around Ce and Gd atoms in CeO2-Gd2O3 binary system. *Journal of Synchrotron Radiation*, **2001**, 8, 740-2	2.4	16

40	Palladium carbide nanoparticles by gas flow reaction synthesis. *Applied Physics Letters*, **1993**, 63, 3020-3022	3.4	16
39	Magnetism, crystal structure and nitrogen content near the ?′phase boundary of iron nitrides. *Journal of Alloys and Compounds*, **2001**, 327, 43-46	5.7	15
38	Pt/TiO2 composite nanoparticles synthesized by electron beam irradiation for preferential CO oxidation. *Materials Research Bulletin*, **2013**, 48, 1347-1351	5.1	14
37	Magnetic composites composed of iron-nitride nanograins dispersed in a silver matrix. *Scripta Materialia*, **1999**, 12, 523-526		14
36	Magnetocaloric effect of La0.7PrxCa0.3MnO3 perovskites. *Journal of Alloys and Compounds*, **2013**, 551, 195-199	5.7	13
35	X-ray-induced reduction of Au ions in an aqueous solution in the presence of support materials and in situ time-resolved XANES measurements. *Journal of Synchrotron Radiation*, **2014**, 21, 1148-52	2.4	13
34	Structure and Catalytic Performance of PtCu Bimetallic Catalysts Synthesized by a Radiation-Induced Reduction Method in the Aqueous Phase: Influence of Support Material and Sulfate Ion in the Precursor. *Journal of Physical Chemistry C*, **2013**, 117, 5742-5751	3.8	12
33	ErN and HoN spherical regenerator materials for 4 K cryocoolers. *Applied Physics Letters*, **2012**, 101, 251908	3.4	12
32	Enhanced electrochemical stability of PtRuAu/C catalyst synthesized by radiolytic process. *Journal of Materials Research*, **2012**, 27, 1037-1045	2.5	12
31	Gamma-ray Irradiation Effects on Corrosion Rates of Stainless Steel in Boiling Nitric Acid Containing Ionic Additives. *Journal of Nuclear Science and Technology*, **1998**, 35, 353-356	1	12
30	Analysis of forming process of nitrogen-doped carbon catalyst derived from Fe 1,10-phenanthroline compound and its oxygen reduction reaction activity. *Catalysis Communications*, **2014**, 43, 66-71	3.2	10
29	Curie temperatures and modified de Gennes factors of rare earth nitrides. *Solid State Communications*, **2011**, 151, 1602-1604	1.6	10
28	Heating ability of LaSrMnCu perovskite spheres under an alternating current magnetic field for magnetic hyperthermia mediators. *Journal of Magnetism and Magnetic Materials*, **2013**, 329, 49-52	2.8	9
27	Enzyme immobilization on gold/Fe-oxide composite nanoparticles using a methionine tag. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2014**, 459, 298-301	5.1	8
26	Mass production of highly loaded and highly dispersed PtRu/C catalysts for methanol oxidation using an electron-beam irradiation reduction method. *Journal of Experimental Nanoscience*, **2016**, 11, 123-137	1.9	7
25	Anomalous X-ray Scattering Study on Site Preference of Co and Fe Ions in Hexagonal Z-Type Barium Ferrite. *Japanese Journal of Applied Physics*, **2005**, 44, 994-998	1.4	7
24	Magnetocaloric Effect of Rare Earth Nitrides. *IEEE Transactions on Magnetics*, **2008**, 44, 2997-3000	2	6
23	The Cation Distribution and Magnetic Structure of Z-type Hexagonal Ferrite: Ba3Co2-xFe24+xO41 by Neutron Diffraction.. *Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy*, **2002**, 49, 677-684	0.2	6

22	Radiation induced synthesis of PtCu/C nanoparticles using high-energy electron beam. *Materials Letters*, **2012**, 82, 33-35	3.3	5
21	Radiation induced synthesis of AuPd nanoparticles of random alloy structure supported on carbon particles using the high energy electron beam. *Materials Letters*, **2011**, 65, 2165-2167	3.3	5
20	Effects of leaflet geometry on the flow field in three bileaflet valves when installed in a pneumatic ventricular assist device. *Journal of Artificial Organs*, **2009**, 12, 98-104	1.8	5
19	Active Metal□Oxide Interfaces in Supported Pt□Cu/CeO2 and Mechanically Mixed Pt□Cu+CeO2 Catalysts Synthesized by an Electron Beam Irradiation Method for Selective CO Oxidation. *Catalysis Letters*, **2013**, 143, 1182-1187	2.8	4
18	Hydrogen Gas Evolution from Water-dispersed Titania and Alumina Nanoparticles by γ-Ray Irradiation. *Radioisotopes*, **2000**, 49, 354-358	0.1	4
17	Depth profiling study on the migration of tritium in titanium induced by deuterium-ion bombardment. *Journal of Nuclear Materials*, **1988**, 160, 247-252	3.3	4
16	Temperature Dependence of Magnetic Moment Orientation in Co2Z-Type Hexaferrite Estimated by High-Temperature Neutron Diffraction. *Japanese Journal of Applied Physics*, **2005**, 44, 3151-3156	1.4	3
15	Thermally Stable Region and Magnetic properties of Z-type Hexagonal Ferrite: Ba3Co2-xFe24+xO41.. *Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy*, **2002**, 49, 129-134	0.2	3
14	Study on the axial distribution of radioactivity in 60Co source pencils for high dose-rate irradiation and that of gamma-ray intensity.. *Radioisotopes*, **1988**, 37, 452-455	0.1	3
13	In situ observation of deuteride formation inpalladium foil cathode by an X-ray diffraction method. *Journal of the Less Common Metals*, **1991**, 172-174, 1381-1387		2
12	Tritium Depth Profiling Study on Titanium Tritide Target for Generating 14-MeV Neutrons. *Journal of Nuclear Science and Technology*, **1986**, 23, 667-672	1	2
11	Dose rate determination of a high 60Co .GAMMA.-ray field (3.7(kCkg-1)/h). *Radioisotopes*, **1987**, 36, 129-132	0.2	2
10	Structure of bicomponent metal□oxide composites synthesized by electron beam irradiation method. *Journal of Alloys and Compounds*, **2013**, 577, 125-130	5.7	1
9	Regenerator Material of Rare Earth Nitride (HoxEr1-xN) for a 4 K-GM Cryocooler. *TEION KOGAKU (Journal of Cryogenics and Superconductivity Society of Japan)*, **2015**, 50, 132-136	0.1	1
8	Tritium Depth Profiling Study on Titanium Tritide Target for Generating 14-MeV Neutrons		1
7	Gamma-ray Irradiation Effects on Corrosion Rates of Stainless Steel in Boiling Nitric Acid Containing Ionic Additives		1
6	Influence of pH on performance of sodium phosphinate for decreasing the particle size. *Journal of Experimental Nanoscience*, **2016**, 11, 707-713	1.9	0
5	Balanced Temperature Estimated from Minor Hysteresis Loop Measurements of La-Sr-Mn-Cu Perovskite for Heating Mediators of Magnetic Hyperthermia. *Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy*, **2014**, 61, S121-S124	0.2	

4	Extremely long signal delays from magnetic particles. *Materials Letters*, **2013**, 98, 51-54	3.3
3	Gamma-Ray Irradiation Effect on Loss Increase of Single Mode Optical Fibers, (II). *Journal of Nuclear Science and Technology*, **1989**, 26, 575-579	1
2	Radiolytic preparation of thin Au film directly on resin substrate using high-energy electron beam. *Thin Solid Films*, **2016**, 604, 63-68	2.2
1	PB-04SEM observation on the surface structure of bacteria after chemical disinfection or physical sterilization. *Microscopy (Oxford, England)*, **2018**, 67, i33-i33	1.3