

Takao Yamamoto

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	PB-04SEM observation on the surface structure of bacteria after chemical disinfection or physical sterilization. <i>Microscopy (Oxford, England)</i> , 2018 , 67, i33-i33	1.3	
74	Influence of pH on performance of sodium phosphinate for decreasing the particle size. <i>Journal of Experimental Nanoscience</i> , 2016 , 11, 707-713	1.9	0
73	Mass production of highly loaded and highly dispersed PtRu/C catalysts for methanol oxidation using an electron-beam irradiation reduction method. <i>Journal of Experimental Nanoscience</i> , 2016 , 11, 123-137	1.9	7
72	Radiochemical synthesis of silver nanoparticles onto textile fabrics and their antibacterial activity. <i>Journal of Nuclear Science and Technology</i> , 2016 , 53, 1021-1027	1	18
71	Radiolytic preparation of thin Au film directly on resin substrate using high-energy electron beam. <i>Thin Solid Films</i> , 2016 , 604, 63-68	2.2	
70	Regenerator Material of Rare Earth Nitride (HoxEr1-xN) for a 4 K-GM Cryocooler. <i>TEION KOGAKU (Journal of Cryogenics and Superconductivity Society of Japan)</i> , 2015 , 50, 132-136	0.1	1
69	Analysis of forming process of nitrogen-doped carbon catalyst derived from Fe 1,10-phenanthroline compound and its oxygen reduction reaction activity. <i>Catalysis Communications</i> , 2014 , 43, 66-71	3.2	10
68	Balanced Temperature Estimated from Minor Hysteresis Loop Measurements of La-Sr-Mn-Cu Perovskite for Heating Mediators of Magnetic Hyperthermia. <i>Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , 2014 , 61, S121-S124	0.2	
67	X-ray-induced reduction of Au ions in an aqueous solution in the presence of support materials and in situ time-resolved XANES measurements. <i>Journal of Synchrotron Radiation</i> , 2014 , 21, 1148-52	2.4	13
66	Enzyme immobilization on gold/Fe-oxide composite nanoparticles using a methionine tag. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014 , 459, 298-301	5.1	8
65	Active Metal/Oxide Interfaces in Supported PtRu/CeO ₂ and Mechanically Mixed PtRu+CeO ₂ Catalysts Synthesized by an Electron Beam Irradiation Method for Selective CO Oxidation. <i>Catalysis Letters</i> , 2013 , 143, 1182-1187	2.8	4
64	Magnetocaloric effect of La _{0.7} Pr _x Ca _{0.3} MnO ₃ perovskites. <i>Journal of Alloys and Compounds</i> , 2013 , 551, 195-199	5.7	13
63	Extremely long signal delays from magnetic particles. <i>Materials Letters</i> , 2013 , 98, 51-54	3.3	
62	Pt/TiO ₂ composite nanoparticles synthesized by electron beam irradiation for preferential CO oxidation. <i>Materials Research Bulletin</i> , 2013 , 48, 1347-1351	5.1	14
61	Structure of bicomponent metal/oxide composites synthesized by electron beam irradiation method. <i>Journal of Alloys and Compounds</i> , 2013 , 577, 125-130	5.7	1
60	Structure and Catalytic Performance of PtRu Bimetallic Catalysts Synthesized by a Radiation-Induced Reduction Method in the Aqueous Phase: Influence of Support Material and Sulfate Ion in the Precursor. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 5742-5751	3.8	12
59	Comparison of structure and catalytic performance of PtRu and PtRu bimetallic catalysts supported on Al ₂ O ₃ and CeO ₂ synthesized by electron beam irradiation method for preferential CO oxidation. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 4456-4465	6.7	21

58	Heating ability of La _{0.7} Mn _{0.3} Ni _{0.7} perovskite spheres under an alternating current magnetic field for magnetic hyperthermia mediators. <i>Journal of Magnetism and Magnetic Materials</i> , 2013 , 329, 49-52	2.8	9
57	Radiation induced synthesis of PtCu/C nanoparticles using high-energy electron beam. <i>Materials Letters</i> , 2012 , 82, 33-35	3.3	5
56	ErN and HoN spherical regenerator materials for 4 K cryocoolers. <i>Applied Physics Letters</i> , 2012 , 101, 2519-2521	3.4	12
55	Effect of support for PtCu bimetallic catalysts synthesized by electron beam irradiation method on preferential CO oxidation. <i>Applied Catalysis B: Environmental</i> , 2012 , 126, 306-314	21.8	27
54	CeO ₂ -supported PtCu alloy nanoparticles synthesized by radiolytic process for highly selective CO oxidation. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 4787-4797	6.7	31
53	Enhanced electrochemical stability of PtRuAu/C catalyst synthesized by radiolytic process. <i>Journal of Materials Research</i> , 2012 , 27, 1037-1045	2.5	12
52	Curie temperatures and modified de Gennes factors of rare earth nitrides. <i>Solid State Communications</i> , 2011 , 151, 1602-1604	1.6	10
51	Radiation induced synthesis of AuPd nanoparticles of random alloy structure supported on carbon particles using the high energy electron beam. <i>Materials Letters</i> , 2011 , 65, 2165-2167	3.3	5
50	Fe ₂ O ₃ -supported Pt-Cu nanoparticles synthesized by radiolytic process for catalytic CO preferential oxidation. <i>Applied Catalysis A: General</i> , 2011 , 406, 43-50	5.1	30
49	Formation of PtRu alloy nanoparticle catalyst by radiolytic process assisted by addition of dl-tartaric acid and its enhanced methanol oxidation activity. <i>Journal of Nanoparticle Research</i> , 2011 , 13, 5275-5287	2.3	25
48	Methanol oxidation catalysis and substructure of PtRu/C bimetallic nanoparticles synthesized by a radiolytic process. <i>Applied Catalysis A: General</i> , 2011 , 396, 68-75	5.1	30
47	Bimetallic nanoparticles of PtM (M=Au, Cu, Ni) supported on iron oxide: Radiolytic synthesis and CO oxidation catalysis. <i>Applied Catalysis A: General</i> , 2010 , 387, 195-202	5.1	80
46	Effects of leaflet geometry on the flow field in three bileaflet valves when installed in a pneumatic ventricular assist device. <i>Journal of Artificial Organs</i> , 2009 , 12, 98-104	1.8	5
45	Dispersibility improvement of gold/iron-oxide composite nanoparticles by polyethylenimine modification. <i>Journal of Magnetism and Magnetic Materials</i> , 2009 , 321, 1404-1407	2.8	19
44	Magnetocaloric effect, specific heat and adiabatic temperature change of Ho _x Er _{1-x} N (x = 0.25, 0.5, 0.75). <i>Journal of Alloys and Compounds</i> , 2008 , 462, L12-L15	5.7	19
43	Magnetocaloric Effect of Rare Earth Nitrides. <i>IEEE Transactions on Magnetics</i> , 2008 , 44, 2997-3000	2	6
42	Radiation induced synthesis of gold/iron-oxide composite nanoparticles using high-energy electron beam. <i>Journal of Nanoparticle Research</i> , 2008 , 10, 1071-1076	2.3	71
41	Methanol oxidation catalysis and substructure of PtRu bimetallic nanoparticles. <i>Applied Catalysis A: General</i> , 2007 , 326, 194-201	5.1	64

40	Functionalization of magnetic gold/iron-oxide composite nanoparticles with oligonucleotides and magnetic separation of specific target. <i>Journal of Magnetism and Magnetic Materials</i> , 2007 , 311, 255-258 ^{2.8}	2.8	35
39	Sonochemically synthesized core-shell structured Au/Pd nanoparticles supported on γ -Fe ₂ O ₃ particles. <i>Journal of Nanoparticle Research</i> , 2006 , 8, 951-958	2.3	19
38	XAFS study on site occupation of cobalt and iron in Z-type ferrite, Ba ₃ Co ₂ Fe _{24+x} O ₄₁ . <i>Journal of Magnetism and Magnetic Materials</i> , 2005 , 288, 366-373	2.8	17
37	Sonochemical preparation of composite nanoparticles of Au/ γ -Fe ₂ O ₃ and magnetic separation of glutathione. <i>Ultrasonics Sonochemistry</i> , 2005 , 12, 191-5	8.9	32
36	Structural analysis of sonochemically prepared Au/Pd nanoparticles dispersed in porous silica matrix. <i>Ultrasonics Sonochemistry</i> , 2005 , 12, 249-54	8.9	37
35	Magnetic separation of amino acids by gold/iron-oxide composite nanoparticles synthesized by gamma-ray irradiation. <i>Journal of Magnetism and Magnetic Materials</i> , 2005 , 293, 106-110	2.8	48
34	Gamma-ray synthesis of magnetic nanocarrier composed of gold and magnetic iron oxide. <i>Journal of Magnetism and Magnetic Materials</i> , 2005 , 293, 144-150	2.8	28
33	Anomalous X-ray Scattering Study on Site Preference of Co and Fe Ions in Hexagonal Z-Type Barium Ferrite. <i>Japanese Journal of Applied Physics</i> , 2005 , 44, 994-998	1.4	7
32	Temperature Dependence of Magnetic Moment Orientation in Co ₂ Z-Type Hexaferrite Estimated by High-Temperature Neutron Diffraction. <i>Japanese Journal of Applied Physics</i> , 2005 , 44, 3151-3156	1.4	3
31	Influence of ion substitution on the magnetic structure and permeability of Z-type hexagonal Ba-ferrites: Ba ₃ Co ₂ Fe _{24+x} Cr _y O ₄₁ . <i>Journal of Magnetism and Magnetic Materials</i> , 2004 , 284, 369-375	2.8	26
30	Magnetocaloric effect of rare earth mono-nitrides, TbN and HoN. <i>Journal of Alloys and Compounds</i> , 2004 , 376, 17-22	5.7	52
29	Site occupation study of ZnFe ₂ O ₄ and NiFe ₂ O ₄ by far-infrared reflectivity. <i>Journal of Alloys and Compounds</i> , 2004 , 379, 122-126	5.7	23
28	XAFS and XRD study of ceria doped with Pr, Nd or Sm. <i>Materials Letters</i> , 2004 , 58, 2076-2081	3.3	56
27	Magnetocaloric effect of mononitride containing gadolinium and dysprosium Gd _x Dy _{1-x} N. <i>Journal of Alloys and Compounds</i> , 2004 , 364, 53-58	5.7	29
26	Influence of size distribution on the magnetocaloric effect of superparamagnetic gold/magnetite nanocomposite. <i>Journal of Alloys and Compounds</i> , 2004 , 365, 281-285	5.7	24
25	Estimation of Magnetic Structures of Z-type Ferrites: (Ba, Sr) ₃ Co ₂ Fe ₂₄ O ₄₁ by Neutron Diffraction. <i>Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , 2003 , 50, 618-625	0.2	20
24	Magnetic Composite Nanoparticle of Au/ γ -Fe ₂ O ₃ Synthesized by Gamma-Ray Irradiation. <i>Chemistry Letters</i> , 2003 , 32, 690-691	1.7	40
23	X-ray and neutron diffraction studies on iron-substituted Z-type hexagonal barium ferrite: Ba ₃ Co ₂ Fe _{24+x} O ₄₁ (x=0.6). <i>Journal of Magnetism and Magnetic Materials</i> , 2003 , 262, 248-257	2.8	57

22	Magnetic evaluation of nanostructure of gold/iron composite particles synthesized by a reverse micelle method. <i>Journal of Alloys and Compounds</i> , 2003 , 359, 46-50	5.7	71
21	The Cation Distribution and Magnetic Structure of Z-type Hexagonal Ferrite: Ba ₃ Co _{2-x} Fe _{24+x} O ₄₁ by Neutron Diffraction.. <i>Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , 2002 , 49, 677-684	0.2	6
20	Thermally Stable Region and Magnetic properties of Z-type Hexagonal Ferrite: Ba ₃ Co _{2-x} Fe _{24+x} O ₄₁ .. <i>Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , 2002 , 49, 129-134	0.2	3
19	Study on local structure around Ce and Gd atoms in CeO ₂ -Gd ₂ O ₃ binary system. <i>Journal of Synchrotron Radiation</i> , 2001 , 8, 740-2	2.4	16
18	Magnetism, crystal structure and nitrogen content near the α/β phase boundary of iron nitrides. <i>Journal of Alloys and Compounds</i> , 2001 , 327, 43-46	5.7	15
17	Hydrogen Gas Evolution from Water-dispersed Titania and Alumina Nanoparticles by γ -Ray Irradiation. <i>Radioisotopes</i> , 2000 , 49, 354-358	0.1	4
16	Magnetic composites composed of iron-nitride nanograins dispersed in a silver matrix. <i>Scripta Materialia</i> , 1999 , 12, 523-526		14
15	Gamma-ray Irradiation Effects on Corrosion Rates of Stainless Steel in Boiling Nitric Acid Containing Ionic Additives. <i>Journal of Nuclear Science and Technology</i> , 1998 , 35, 353-356	1	12
14	Gamma-ray irradiation effect on corrosion rates of stainless steel, Ti and Ti-5Ta in boiling 9N nitric acid. <i>Journal of Nuclear Materials</i> , 1996 , 228, 162-167	3.3	20
13	Superparamagnetic Nanocomposite of Silver/Iron-Oxide by Inert Gas Condensation. <i>Japanese Journal of Applied Physics</i> , 1994 , 33, L1301-L1303	1.4	22
12	Palladium carbide nanoparticles by gas flow reaction synthesis. <i>Applied Physics Letters</i> , 1993 , 63, 3020-3022	3.4	16
11	In situ observation of deuteride formation in palladium foil cathode by an X-ray diffraction method. <i>Journal of the Less Common Metals</i> , 1991 , 172-174, 1381-1387		2
10	Direct Observation of ¹⁸ O Tracer Diffusion in a YBa ₂ Cu ₃ O _y Single Crystal by Secondary Ion Mass Spectrometry. <i>Japanese Journal of Applied Physics</i> , 1991 , 30, L973-L976	1.4	21
9	Detection of Charged Particles Emitted by Electrolytically Induced Cold Nuclear Fusion. <i>Japanese Journal of Applied Physics</i> , 1989 , 28, L2021-L2023	1.4	23
8	Gamma-Ray Irradiation Effect on Loss Increase of Single Mode Optical Fibers, (I). <i>Journal of Nuclear Science and Technology</i> , 1989 , 26, 507-515	1	18
7	Gamma-Ray Irradiation Effect on Loss Increase of Single Mode Optical Fibers, (II). <i>Journal of Nuclear Science and Technology</i> , 1989 , 26, 575-579	1	
6	Depth profiling study on the migration of tritium in titanium induced by deuterium-ion bombardment. <i>Journal of Nuclear Materials</i> , 1988 , 160, 247-252	3.3	4
5	Study on the axial distribution of radioactivity in ⁶⁰ Co source pencils for high dose-rate irradiation and that of gamma-ray intensity.. <i>Radioisotopes</i> , 1988 , 37, 452-455	0.1	3

4	Dose rate determination of a high ^{60}Co .GAMMA.-ray field (3.7(kCkg-1)/h). <i>Radioisotopes</i> , 1987 , 36, 129-132	2
3	Tritium Depth Profiling Study on Titanium Tritide Target for Generating 14-MeV Neutrons. <i>Journal of Nuclear Science and Technology</i> , 1986 , 23, 667-672	1 2
2	Tritium Depth Profiling Study on Titanium Tritide Target for Generating 14-MeV Neutrons	1
1	Gamma-ray Irradiation Effects on Corrosion Rates of Stainless Steel in Boiling Nitric Acid Containing Ionic Additives	1