Yoshiteru Mizukoshi

List of Publications by Year
in descending order

74	2,965	186209 28	161767 54
papers	citations	h-index	g-index

75	75	75	3386
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Characterization and Catalytic Activity of Coreâ˜Shell Structured Gold/Palladium Bimetallic Nanoparticles Synthesized by the Sonochemical Method. Journal of Physical Chemistry B, 2000, 104, 6028-6032.	1.2	321
2	Sonochemical Preparation of Bimetallic Nanoparticles of Gold/Palladium in Aqueous Solution. Journal of Physical Chemistry B, 1997, 101, 7033-7037.	1.2	290
3	Sonochemical degradation of chlorophenols in water. Ultrasonics Sonochemistry, 2000, 7, 115-120.	3.8	166
4	Formation of noble metal particles by ultrasonic irradiation. Ultrasonics Sonochemistry, 1996, 3, S249-S251.	3.8	141
5	Immobilization of noble metal nanoparticles on the surface of TiO2 by the sonochemical method: Photocatalytic production of hydrogen from an aqueous solution of ethanol. Ultrasonics Sonochemistry, 2007, 14, 387-392.	3.8	138
6	Sonochemical Formation of Gold Particles in Aqueous Solution. Radiation Research, 1996, 146, 333.	0.7	118
7	Preparation of Platinum Nanoparticles by Sonochemical Reduction of the Pt(II) Ion. Langmuir, 1999, 15, 2733-2737.	1.6	118
8	Preparation of platinum nanoparticles by sonochemical reduction of the Pt(IV) ions: role of surfactants. Ultrasonics Sonochemistry, 2001, 8, 1-6.	3.8	110
9	Dependence of photocatalytic activities upon the structures of Au/Pd bimetallic nanoparticles immobilized on TiO2 surface. Applied Catalysis B: Environmental, 2010, 94, 248-253.	10.8	107
10	Sonochemical synthesis of gold nanoparticles on chitosan. Materials Letters, 2007, 61, 3429-3431.	1.3	87
11	Hydrocarbon Decomposition on a Hydrophilic TiO₂ Surface by UV Irradiation: Spectral and Quantitative Analysis Using in-Situ XPS Technique. Langmuir, 2009, 25, 11586-11591.	1.6	85
12	Enhanced photocatalytic activity of rutile TiO2 prepared by anodic oxidation in a high concentration sulfuric acid electrolyte. Applied Catalysis B: Environmental, 2009, 90, 255-261.	10.8	78
13	Visible light responses of sulfur-doped rutile titanium dioxide photocatalysts fabricated by anodic oxidation. Applied Catalysis B: Environmental, 2009, 91, 152-156.	10.8	76
14	Synthesis of Palladium Nanoparticles with Interstitial Carbon by Sonochemical Reduction of Tetrachloropalladate(II) in Aqueous Solution. Journal of Physical Chemistry B, 1997, 101, 5470-5472.	1.2	70
15	Supporting of pristine TiO2 with noble metals to enhance the oxidation and mineralization of paracetamol by sonolysis and sonophotolysis. Applied Catalysis B: Environmental, 2015, 172-173, 7-17.	10.8	65
16	Sonolysis of organic liquid: effect of vapour pressure and evaporation rate. Ultrasonics Sonochemistry, 1999, 6, 203-209.	3.8	64
17	Sonolytic degradation of hazardous organic compounds in aqueous solution. Ultrasonics Sonochemistry, 2000, 7, 261-264.	3.8	61
18	Sonolytical preparation of various types of metal nanoparticles in aqueous solution. Scripta Materialia, 2001, 44, 2183-2186.	2.6	58

#	Article	IF	Citations
19	Preparation of superparamagnetic magnetite nanoparticles by reverse precipitation method: Contribution of sonochemically generated oxidants. Ultrasonics Sonochemistry, 2009, 16, 525-531.	3.8	57
20	Î³-ray synthesis of composite nanoparticles of noble metals and magnetic iron oxides. Scripta Materialia, 2004, 51, 467-472.	2.6	53
21	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.	1.0	53
22	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.	1.0	40
23	Structural analysis of sonochemically prepared Au/Pd nanoparticles dispersed in porous silica matrix. Ultrasonics Sonochemistry, 2005, 12, 249-254.	3.8	39
24	Sonochemical preparation of composite nanoparticles of Au/Î³-Fe2O3 and magnetic separation of glutathione. Ultrasonics Sonochemistry, 2005, 12, 191-195.	3.8	37
25	Sonochemical Preparation of Size-Controlled Palladium Nanoparticles on Alumina Surface. Chemistry Letters, 1999, 28, 271-272.	0.7	34
26	Gamma-ray synthesis of magnetic nanocarrier composed of gold and magnetic iron oxide. Journal of Magnetism and Magnetic Materials, 2005, 293, 144-150.	1.0	33
27	Effect of support for Pt Cu bimetallic catalysts synthesized by electron beam irradiation method on preferential CO oxidation. Applied Catalysis B: Environmental, 2012, 126, 306-314.	10.8	33
28	Photo-induced properties of anodic oxide films on Ti6Al4V. Thin Solid Films, 2012, 520, 4956-4964.	0.8	30
29	Sonochemical immobilization of noble metal nanoparticles on the surface of maghemite: Mechanism and morphological control of the products. Ultrasonics Sonochemistry, 2008, 15, 875-880.	3.8	27
30	Visible light response of nitrogen and sulfur co-doped TiO2 photocatalysts fabricated by anodic oxidation. Catalysis Today, 2011, 164, 399-403.	2.2	26
31	Synthesis of gold/magnetic iron oxide composite nanoparticles for biomedical applications with good dispersibility. Journal of Applied Physics, 2006, 99, 08H101.	1.1	24
32	Sonochemically synthesized core-shell structured Auâ€“Pd nanoparticles supported on Î³-Fe2O3 particles. Journal of Nanoparticle Research, 2006, 8, 951-958.	0.8	21
33	Structural and characteristic variation of anodic oxide on pure Ti with anodization duration. Applied Surface Science, 2013, 283, 1018-1023.	3.1	20
34	Selective magnetic separation of sulfur-containing amino acids by sonochemically prepared Au/Î³-Fe2O3 composite nanoparticles. Scripta Materialia, 2006, 54, 609-613.	2.6	19
35	Photo-induced characteristics of a Tiâ€“Nbâ€“Sn biometallic alloy with low Young's modulus. Thin Solid Films, 2010, 519, 276-283.	0.8	19
36	Nitrogen Fixation in an Aqueous Solution by a Novel Flow Plasma System. Chemistry Letters, 2015, 44, 495-496.	0.7	18

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37	Photocatalytic Activities and Crystal Structures of Titanium Dioxide by Anodization: Their Dependence upon Current Density. Materials Transactions, 2010, 51, 1443-1448.	0.4	16
38	Angle resolved XPS studies on an anodic oxide formed on Tiâ€“Nbâ€“Sn alloy and the photo-induced change in carbon contaminants adsorbed on its surface. Applied Surface Science, 2012, 258, 6052-6055.	3.1	16
39	Fabrication of visible-light-responsive titanium dioxide layer on titanium using anodic oxidization in nitric acid. Applied Surface Science, 2013, 270, 513-518.	3.1	16
40	Electron microscopy of noble metal alloy nanoparticles prepared by sonochemical methods. Scripta Materialia, 1999, 12, 111-114.	0.5	15
41	Acoustic Cavitation in Water under Rare Gas Atmosphere. Chemistry Letters, 2001, 30, 142-143.	0.7	15
42	Effect of CeO2 support properties on structure of Ptâ€“Cu nanoparticles synthesized by electron beam irradiation method for preferential CO oxidation. Chemical Engineering Journal, 2013, 223, 347-355.	6.6	14
43	Fabrication of a TiO2 photocatalyst by anodic oxidation of Ti in an acetic acid electrolyte. Surface and Coatings Technology, 2014, 240, 226-232.	2.2	14
44	Superhydrophilicity of Rutile TiO2 Prepared by Anodic Oxidation in High Concentration Sulfuric Acid Electrolyte. Chemistry Letters, 2008, 37, 1126-1127.	0.7	13
45	Magnetically Retrievable Palladium/Maghemite Nanocomposite Catalysts Prepared by Sonochemical Reduction Method. Chemistry Letters, 2008, 37, 922-923.	0.7	12
46	Improved colorimetric determination of noble metal ions in multitudinous solution using sodium bromide or sodium iodide.. Bunseki Kagaku, 1996, 45, 327-331.	0.1	10
47	One-step synthesis of graphene-Pt nanocomposites by gamma-ray irradiation. Radiation Physics and Chemistry, 2016, 123, 68-72.	1.4	8
48	One-pot preparation of Pd nanoparticles supported on graphene from Pd electrodes by discharge plasma in graphene suspension and its catalytic activity for hydrogenation of nitrobenzene. Materials Letters, 2017, 199, 24-27.	1.3	7
49	Comparison of reductive nanoparticle preparation using plasma and ultrasound irradiation in aqueous solution. Japanese Journal of Applied Physics, 2018, 57, 0102A5.	0.8	7
50	Preparation of nanoparticles by reducing intermediate radicals formed in sonolytical pyrolysis of surfactants. Research on Chemical Intermediates, 2004, 30, 775-783.	1.3	6
51	Fabrication of Antibacterial Photocatalytic Titanium Foil by Anodic Oxidation. Chemistry Letters, 2015, 44, 277-278.	0.7	5
52	Local structure of vanadium in Ti-6Al-4V alloy anodized in acetic acid aqueous solution and its contribution to visible light response in photocatalysis. Applied Catalysis B: Environmental, 2015, 162, 180-186.	10.8	5
53	Photo-induced properties of anodic oxide on Tiâ€“Pd alloy prepared in acetic acid electrolyte. Journal of Alloys and Compounds, 2016, 669, 91-100.	2.8	5
54	Plasma generation in aqueous solution containing volatile solutes. Japanese Journal of Applied Physics, 2018, 57, 0102B7.	0.8	5

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55	Synthesis of oxygen-deficient blue titanium oxide by discharge plasma generated in aqueous ammonia solution. Applied Surface Science, 2019, 489, 255-261.	3.1	5
56	Formation Mechanism of Noble Metal Nanoparticles in Aqueous Solution by Solution Plasma. Science of Advanced Materials, 2014, 6, 1569-1572.	0.1	5
57	Catalytic Applications of Noble Metal Nanoparticles Produced by Sonochemical Reduction of Noble Metal Ions. , 2016, , 325-363.		4
58	DNA Separation Using Gold/Magnetic Iron-oxide Composite Nanoparticles. Materials Research Society Symposia Proceedings, 2005, 877, 1.	0.1	3
59	Preparation of Hydrogen Permeable Membrane Using Nanoparticles Electrophoresis Technique. Topics in Catalysis, 2009, 52, 860-864.	1.3	3
60	Effects of Ultrasonic Irradiation on Preparation of Titanium Dioxide Photocatalyst by Anodic Oxidation Method. Materials Transactions, 2009, 50, 2182-2186.	0.4	3
61	Catalytic activities of sonochemically prepared Au-core/Pd-shell-structured bimetallic nanoparticles immobilised on TiO₂and its dependence on Pd-shell thickness. Journal of Experimental Nanoscience, 2015, 10, 235-247.	1.3	3
62	Deactivation of Algae by Plasma Generated in Seawater Flow. Chemistry Letters, 2018, 47, 116-118.	0.7	3
63	SONOCHEMICAL PREPARATION OF GOLD/IRON OXIDE COMPOSITE MAGNETIC NANOPARTICLES AND SELECTIVE MAGNETIC SEPARATION OF BIOMOLECULES. International Journal of Nanoscience, 2006, 05, 359-363.	0.4	2
64	Visible Light Responsive TiO2 Photocatalyst Prepared by Anodization of Tiâ€“6Alâ€“4V Alloy. Chemistry Letters, 2012, 41, 544-545.	0.7	2
65	Atomic and nanoscale imaging of a cellulose nanofiber and Pd nanoparticles composite using lower-voltage high-resolution TEM. Journal of Electron Microscopy, 2017, 66, 348-355.	0.9	2
66	Effects of alcohol addition on decay of sonoluminescence intensity. Acoustical Science and Technology, 2019, 40, 49-51.	0.3	2
67	Fabrication of Titanium Dioxide Photocatalysts by Anodic Oxidation. Materia Japan, 2010, 49, 55-61.	0.1	1
68	Dielectric properties of anodic oxide film on Nb solid solution/Nb2N two phase alloys. Thin Solid Films, 2010, 519, 719-724.	0.8	1
69	Fabrication of Photocatalyst by Anodization of Titanium Alloy. Journal of Smart Processing, 2013, 2, 320-325.	0.0	1
70	Synthesis of Composite Nanoparticle Material of Gold and Magnetic Iron Oxide by Gamma-Ray Irradiation. Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2004, 51, 680-684.	0.1	0
71	Sonochemical Synthesis and Characterization of Magnetic Composite Nanoparticles. Journal of the Society of Powder Technology, Japan, 2004, 41, 440-444.	0.0	0
72	Aqueous-Phase Plasma Method for Selective Decomposition of Ammonia Generated as a Byproduct in a Hydrazine Hydrate Fuel Cell System. Kagaku Kogaku Ronbunshu, 2019, 45, 86-90.	0.1	0

#	Article	IF	Citations
73	Preparation of Noble Metal/Graphene Nanocomposites Using Various Excited Reaction Sites in an Aqueous System. , 2019, , 201-223.		0
74	Catalytic Applications of Noble Metal Nanoparticles Produced by Sonochemical Reduction of Noble Metal Ions. , 2015, , 1-39.		0