

Yoshiteru Mizukoshi

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72
papers

2,669
citations

27
h-index

51
g-index

75
ext. papers

2,793
ext. citations

5.4
avg, IF

4.5
L-index

#	Paper	IF	Citations
72	Characterization and Catalytic Activity of CoreShell Structured Gold/Palladium Bimetallic Nanoparticles Synthesized by the Sonochemical Method. <i>Journal of Physical Chemistry B</i> , 2000 , 104, 6028-6032	3.4	294
71	Sonochemical Preparation of Bimetallic Nanoparticles of Gold/Palladium in Aqueous Solution. <i>Journal of Physical Chemistry B</i> , 1997 , 101, 7033-7037	3.4	269
70	Sonochemical degradation of chlorophenols in water. <i>Ultrasonics Sonochemistry</i> , 2000 , 7, 115-20	8.9	148
69	Formation of noble metal particles by ultrasonic irradiation. <i>Ultrasonics Sonochemistry</i> , 1996 , 3, S249-S251	8.9	134
68	Immobilization of noble metal nanoparticles on the surface of TiO ₂ by the sonochemical method: photocatalytic production of hydrogen from an aqueous solution of ethanol. <i>Ultrasonics Sonochemistry</i> , 2007 , 14, 387-92	8.9	128
67	Sonochemical Formation of Gold Particles in Aqueous Solution. <i>Radiation Research</i> , 1996 , 146, 333	3.1	110
66	Preparation of Platinum Nanoparticles by Sonochemical Reduction of the Pt(II) Ion. <i>Langmuir</i> , 1999 , 15, 2733-2737	4	104
65	Preparation of platinum nanoparticles by sonochemical reduction of the Pt(IV) ions: role of surfactants. <i>Ultrasonics Sonochemistry</i> , 2001 , 8, 1-6	8.9	101
64	Dependence of photocatalytic activities upon the structures of Au/Pd bimetallic nanoparticles immobilized on TiO ₂ surface. <i>Applied Catalysis B: Environmental</i> , 2010 , 94, 248-253	21.8	96
63	Hydrocarbon decomposition on a hydrophilic TiO ₂ surface by UV irradiation: spectral and quantitative analysis using in-situ XPS technique. <i>Langmuir</i> , 2009 , 25, 11586-91	4	77
62	Enhanced photocatalytic activity of rutile TiO ₂ prepared by anodic oxidation in a high concentration sulfuric acid electrolyte. <i>Applied Catalysis B: Environmental</i> , 2009 , 90, 255-261	21.8	75
61	Sonochemical synthesis of gold nanoparticles on chitosan. <i>Materials Letters</i> , 2007 , 61, 3429-3431	3.3	75
60	Visible light responses of sulfur-doped rutile titanium dioxide photocatalysts fabricated by anodic oxidation. <i>Applied Catalysis B: Environmental</i> , 2009 , 91, 152-156	21.8	70
59	Synthesis of Palladium Nanoparticles with Interstitial Carbon by Sonochemical Reduction of Tetrachloropalladate(II) in Aqueous Solution. <i>Journal of Physical Chemistry B</i> , 1997 , 101, 5470-5472	3.4	61
58	Sonolytic degradation of hazardous organic compounds in aqueous solution. <i>Ultrasonics Sonochemistry</i> , 2000 , 7, 261-4	8.9	59
57	Supporting of pristine TiO ₂ with noble metals to enhance the oxidation and mineralization of paracetamol by sonolysis and sonophotolysis. <i>Applied Catalysis B: Environmental</i> , 2015 , 172-173, 7-17	21.8	56
56	Sonolysis of organic liquid: effect of vapour pressure and evaporation rate. <i>Ultrasonics Sonochemistry</i> , 1999 , 6, 203-209	8.9	54

55	Preparation of superparamagnetic magnetite nanoparticles by reverse precipitation method: contribution of sonochemically generated oxidants. <i>Ultrasonics Sonochemistry</i> , 2009 , 16, 525-31	8.9	51
54	Sonolytical preparation of various types of metal nanoparticles in aqueous solution. <i>Scripta Materialia</i> , 2001 , 44, 2183-2186	5.6	50
53	Easy synthesis of composite nanoparticles of noble metals and magnetic iron oxides. <i>Scripta Materialia</i> , 2004 , 51, 467-472	5.6	49
52	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
51	Structural analysis of sonochemically prepared Au/Pd nanoparticles dispersed in porous silica matrix. <i>Ultrasonics Sonochemistry</i> , 2005 , 12, 249-54	8.9	37
50	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	35
49	Sonochemical preparation of composite nanoparticles of Au/gamma-Fe ₂ O ₃ and magnetic separation of glutathione. <i>Ultrasonics Sonochemistry</i> , 2005 , 12, 191-5	8.9	32
48	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
47	Sonochemical Preparation of Size-Controlled Palladium Nanoparticles on Alumina Surface. <i>Chemistry Letters</i> , 1999 , 28, 271-272	1.7	28
46	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
45	Photo-induced properties of anodic oxide films on Ti6Al4V. <i>Thin Solid Films</i> , 2012 , 520, 4956-4964	2.2	26
44	Sonochemical immobilization of noble metal nanoparticles on the surface of maghemite: mechanism and morphological control of the products. <i>Ultrasonics Sonochemistry</i> , 2008 , 15, 875-80	8.9	24
43	Visible light response of nitrogen and sulfur co-doped TiO ₂ photocatalysts fabricated by anodic oxidation. <i>Catalysis Today</i> , 2011 , 164, 399-403	5.3	23
42	Synthesis of gold/magnetic iron oxide composite nanoparticles for biomedical applications with good dispersibility. <i>Journal of Applied Physics</i> , 2006 , 99, 08H101	2.5	23
41	Photo-induced characteristics of a TiNbSn biometallic alloy with low Young's modulus. <i>Thin Solid Films</i> , 2010 , 519, 276-283	2.2	19
40	Sonochemically synthesized core-shell structured AuPd nanoparticles supported on Fe ₂ O ₃ particles. <i>Journal of Nanoparticle Research</i> , 2006 , 8, 951-958	2.3	19
39	Selective magnetic separation of sulfur-containing amino acids by sonochemically prepared Au/Fe ₂ O ₃ composite nanoparticles. <i>Scripta Materialia</i> , 2006 , 54, 609-613	5.6	16
38	Structural and characteristic variation of anodic oxide on pure Ti with anodization duration. <i>Applied Surface Science</i> , 2013 , 283, 1018-1023	6.7	14

37	Fabrication of visible-light-responsive titanium dioxide layer on titanium using anodic oxidization in nitric acid. <i>Applied Surface Science</i> , 2013 , 270, 513-518	6.7	14
36	Nitrogen Fixation in an Aqueous Solution by a Novel Flow Plasma System. <i>Chemistry Letters</i> , 2015 , 44, 495-496	1.7	14
35	Acoustic Cavitation in Water under Rare Gas Atmosphere. <i>Chemistry Letters</i> , 2001 , 30, 142-143	1.7	14
34	Angle resolved XPS studies on an anodic oxide formed on TiNiSn alloy and the photo-induced change in carbon contaminants adsorbed on its surface. <i>Applied Surface Science</i> , 2012 , 258, 6052-6055	6.7	13
33	Effect of CeO ₂ support properties on structure of Pt/Cu nanoparticles synthesized by electron beam irradiation method for preferential CO oxidation. <i>Chemical Engineering Journal</i> , 2013 , 223, 347-355	14.7	13
32	Superhydrophilicity of Rutile TiO ₂ Prepared by Anodic Oxidation in High Concentration Sulfuric Acid Electrolyte. <i>Chemistry Letters</i> , 2008 , 37, 1126-1127	1.7	13
31	Magnetically Retrievable Palladium/Maghemite Nanocomposite Catalysts Prepared by Sonochemical Reduction Method. <i>Chemistry Letters</i> , 2008 , 37, 922-923	1.7	12
30	Electron microscopy of noble metal alloy nanoparticles prepared by sonochemical methods. <i>Scripta Materialia</i> , 1999 , 12, 111-114		12
29	Fabrication of a TiO ₂ photocatalyst by anodic oxidation of Ti in an acetic acid electrolyte. <i>Surface and Coatings Technology</i> , 2014 , 240, 226-232	4.4	11
28	Photocatalytic Activities and Crystal Structures of Titanium Dioxide by Anodization: Their Dependence upon Current Density. <i>Materials Transactions</i> , 2010 , 51, 1443-1448	1.3	11
27	Improved colorimetric determination of noble metal ions in multitudinous solution using sodium bromide or sodium iodide.. <i>Bunseki Kagaku</i> , 1996 , 45, 327-331	0.2	10
26	One-step synthesis of graphene-Pt nanocomposites by gamma-ray irradiation. <i>Radiation Physics and Chemistry</i> , 2016 , 123, 68-72	2.5	8
25	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. <i>Materials Letters</i> , 2017 , 199, 24-27	3.3	6
24	Preparation of nanoparticles by reducing intermediate radicals formed in sonolytical pyrolysis of surfactants. <i>Research on Chemical Intermediates</i> , 2004 , 30, 775-783	2.8	6
23	Comparison of reductive nanoparticle preparation using plasma and ultrasound irradiation in aqueous solution. <i>Japanese Journal of Applied Physics</i> , 2018 , 57, 0102A5	1.4	5
22	Fabrication of Antibacterial Photocatalytic Titanium Foil by Anodic Oxidation. <i>Chemistry Letters</i> , 2015 , 44, 277-278	1.7	5
21	Formation Mechanism of Noble Metal Nanoparticles in Aqueous Solution by Solution Plasma. <i>Science of Advanced Materials</i> , 2014 , 6, 1569-1572	2.3	5
20	Plasma generation in aqueous solution containing volatile solutes. <i>Japanese Journal of Applied Physics</i> , 2018 , 57, 0102B7	1.4	5

19	Local structure of vanadium in Ti-6Al-4V alloy anodized in acetic acid aqueous solution and its contribution to visible light response in photocatalysis. <i>Applied Catalysis B: Environmental</i> , 2015 , 162, 180-186	21.8	4
18	Photo-induced properties of anodic oxide on TiBd alloy prepared in acetic acid electrolyte. <i>Journal of Alloys and Compounds</i> , 2016 , 669, 91-100	5.7	4
17	Catalytic activities of sonochemically prepared Au-core/Pd-shell-structured bimetallic nanoparticles immobilised on TiO ₂ and its dependence on Pd-shell thickness. <i>Journal of Experimental Nanoscience</i> , 2015 , 10, 235-247	1.9	3
16	Deactivation of Algae by Plasma Generated in Seawater Flow. <i>Chemistry Letters</i> , 2018 , 47, 116-118	1.7	3
15	Preparation of Hydrogen Permeable Membrane Using Nanoparticles Electrophoresis Technique. <i>Topics in Catalysis</i> , 2009 , 52, 860-864	2.3	3
14	Effects of Ultrasonic Irradiation on Preparation of Titanium Dioxide Photocatalyst by Anodic Oxidation Method. <i>Materials Transactions</i> , 2009 , 50, 2182-2186	1.3	3
13	Catalytic Applications of Noble Metal Nanoparticles Produced by Sonochemical Reduction of Noble Metal Ions 2016 , 325-363		3
12	Synthesis of oxygen-deficient blue titanium oxide by discharge plasma generated in aqueous ammonia solution. <i>Applied Surface Science</i> , 2019 , 489, 255-261	6.7	2
11	Visible Light Responsive TiO ₂ Photocatalyst Prepared by Anodization of Ti ₆ Al ₄ V Alloy. <i>Chemistry Letters</i> , 2012 , 41, 544-545	1.7	2
10	Effects of alcohol addition on decay of sonoluminescence intensity. <i>Acoustical Science and Technology</i> , 2019 , 40, 49-51	0.5	2
9	Atomic and nanoscale imaging of a cellulose nanofiber and Pd nanoparticles composite using lower-voltage high-resolution TEM. <i>Journal of Electron Microscopy</i> , 2017 , 66, 348-355		1
8	Dielectric properties of anodic oxide film on Nb solid solution/Nb ₂ N two phase alloys. <i>Thin Solid Films</i> , 2010 , 519, 719-724	2.2	1
7	DNA Separation Using Gold/Magnetic Iron-oxide Composite Nanoparticles. <i>Materials Research Society Symposia Proceedings</i> , 2005 , 877, 1		1
6	SONOCHEMICAL PREPARATION OF GOLD/IRON OXIDE COMPOSITE MAGNETIC NANOPARTICLES AND SELECTIVE MAGNETIC SEPARATION OF BIOMOLECULES. <i>International Journal of Nanoscience</i> , 2006 , 05, 359-363	0.6	0
5	Preparation of Noble Metal/Graphene Nanocomposites Using Various Excited Reaction Sites in an Aqueous System 2019 , 201-223		
4	Aqueous-Phase Plasma Method for Selective Decomposition of Ammonia Generated as a Byproduct in a Hydrazine Hydrate Fuel Cell System. <i>Kagaku Kogaku Ronbunshu</i> , 2019 , 45, 86-90	0.4	
3	Fabrication of Titanium Dioxide Photocatalysts by Anodic Oxidation. <i>Materia Japan</i> , 2010 , 49, 55-61	0.1	
2	Catalytic Applications of Noble Metal Nanoparticles Produced by Sonochemical Reduction of Noble Metal Ions 2015 , 1-39		

- 1 Fabrication of Photocatalyst by Anodization of Titanium Alloy. *Journal of Smart Processing*, **2013**, 2, 320-325