

Hiroyuki Miyamura

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.

74
papers

3,583
citations

35
h-index

59
g-index

108
ext. papers

3,880
ext. citations

9.1
avg, IF

5.66
L-index

| # | Paper | IF | Citations |
|----|--|------|-----------|
| 74 | Polymer Immobilized Bimetallic Nanoparticle Catalysts for Selective Hydrogenation of Quinones and Integration of Quinone-hydrogenation and Its Derivatization Using Sequential and Continuous-flow Systems. <i>Yuki Gosei Kagaku Kyokaiishi/Journal of Synthetic Organic Chemistry</i> , 2020 , 76, 232-239 | 0.2 | |
| 73 | Asymmetric 1,4-Addition of Arylboronic Acids to α,β -Unsaturated β -Ketoesters using Heterogeneous Chiral Metal Nanoparticle Systems. <i>Advanced Synthesis and Catalysis</i> , 2020 , 362, 353-359 | 5.6 | 9 |
| 72 | Chiral Rhodium Nanoparticle-Catalyzed Asymmetric Arylation Reactions. <i>Accounts of Chemical Research</i> , 2020 , 53, 2950-2963 | 24.3 | 13 |
| 71 | Nanoparticle Catalysts in Flow Systems. <i>Topics in Organometallic Chemistry</i> , 2020 , 207-241 | 0.6 | |
| 70 | Heterogeneous Supramolecular Catalysis through Immobilization of Anionic ML Assemblies on Cationic Polymers. <i>Journal of the American Chemical Society</i> , 2020 , 142, 19327-19338 | 16.4 | 9 |
| 69 | Direct Synthesis of Hydroquinones from Quinones through Sequential and Continuous-Flow Hydrogenation-Derivatization Using Heterogeneous Au/Pt Nanoparticles as Catalysts. <i>Angewandte Chemie</i> , 2019 , 131, 9318-9322 | 3.6 | 3 |
| 68 | Direct Synthesis of Hydroquinones from Quinones through Sequential and Continuous-Flow Hydrogenation-Derivatization Using Heterogeneous Au-Pt Nanoparticles as Catalysts. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 9220-9224 | 16.4 | 18 |
| 67 | Heterogeneous Rh and Rh/Ag bimetallic nanoparticle catalysts immobilized on chiral polymers. <i>Chemical Science</i> , 2019 , 10, 7619-7626 | 9.4 | 10 |
| 66 | Highly Selective Reductive Cross-Amination between Aniline or Nitroarene Derivatives and Alkylamines Catalyzed by Polysilane-Immobilized Rh/Pt Bimetallic Nanoparticles. <i>Synlett</i> , 2019 , 30, 387-392 | 3.2 | 1 |
| 65 | Polysilane-Immobilized Rh-Pt Bimetallic Nanoparticles as Powerful Arene Hydrogenation Catalysts: Synthesis, Reactions under Batch and Flow Conditions and Reaction Mechanism. <i>Journal of the American Chemical Society</i> , 2018 , 140, 11325-11334 | 16.4 | 56 |
| 64 | Front Cover Picture: A Polystyrene-Supported Phase-Transfer Catalyst for Asymmetric Michael Addition of Glycine-Derived Imines to α,β -Unsaturated Ketones (Adv. Synth. Catal. 17/2017). <i>Advanced Synthesis and Catalysis</i> , 2017 , 359, 2895-2895 | 5.6 | |
| 63 | A Polystyrene-Supported Phase-Transfer Catalyst for Asymmetric Michael Addition of Glycine-Derived Imines to α,β -Unsaturated Ketones. <i>Advanced Synthesis and Catalysis</i> , 2017 , 359, 2897-2900 | 5.6 | 11 |
| 62 | Rhodium-catalyzed asymmetric 1,4-addition reactions of aryl boronic acids with nitroalkenes: reaction mechanism and development of homogeneous and heterogeneous catalysts. <i>Chemical Science</i> , 2017 , 8, 8362-8372 | 9.4 | 28 |
| 61 | Water as a catalytic switch in the oxidation of aryl alcohols by polymer incarcerated rhodium nanoparticles. <i>Catalysis Science and Technology</i> , 2017 , 7, 3985-3998 | 5.5 | 12 |
| 60 | Applications in Catalysis 2017 , 223-258 | | |
| 59 | Integration of aerobic oxidation and intramolecular asymmetric aza-Friedel-Crafts reactions with a chiral bifunctional heterogeneous catalyst. <i>Chemical Science</i> , 2017 , 8, 1356-1359 | 9.4 | 13 |
| 58 | Development of Highly Functionalized Metal Nanocluster Catalysts for Fine Organic Synthesis. <i>Yuki Gosei Kagaku Kyokaiishi/Journal of Synthetic Organic Chemistry</i> , 2017 , 75, 1238-1252 | 0.2 | |

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| 57 | N-Heterocyclic Carbene Coordinated Heterogeneous Pd Nanoparticles as Catalysts for Suzuki-Miyaura Coupling. <i>Chemistry Letters</i> , 2016 , 45, 837-839 | 1.7 | 9 |
| 56 | Chiral Ligand-Modified Metal Nanoparticles as Unique Catalysts for Asymmetric C-C Bond-Forming Reactions: How Are Active Species Generated?. <i>ACS Catalysis</i> , 2016 , 6, 7979-7988 | 13.1 | 49 |
| 55 | Lewis acid-driven reaction pathways in synergistic cooperative catalysis over gold/palladium bimetallic nanoparticles for hydrogen autotransfer reaction between amide and alcohol. <i>Chinese Journal of Catalysis</i> , 2016 , 37, 1662-1668 | 11.3 | 3 |
| 54 | Chiral Nanoparticles/Lewis Acids as Cooperative Catalysts for Asymmetric 1,4-Addition of Arylboronic Acids to α -Unsaturated Amides. <i>Angewandte Chemie</i> , 2016 , 128, 8190-8193 | 3.6 | 9 |
| 53 | Chiral Nanoparticles/Lewis Acids as Cooperative Catalysts for Asymmetric 1,4-Addition of Arylboronic Acids to α -Unsaturated Amides. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 8058-61 | 16.4 | 41 |
| 52 | Asymmetric Arylation of Imines Catalyzed by Heterogeneous Chiral Rhodium Nanoparticles. <i>Organic Letters</i> , 2016 , 18, 2716-8 | 6.2 | 29 |
| 51 | Synergistic cascade catalysis by metal nanoparticles and Lewis acids in hydrogen autotransfer. <i>Chemical Science</i> , 2015 , 6, 1719-1727 | 9.4 | 36 |
| 50 | Chiral Metal Nanoparticle Systems as Heterogeneous Catalysts beyond Homogeneous Metal Complex Catalysts for Asymmetric Addition of Arylboronic Acids to α -Unsaturated Carbonyl Compounds. <i>Journal of the American Chemical Society</i> , 2015 , 137, 6616-23 | 16.4 | 86 |
| 49 | Cellulose-supported chiral rhodium nanoparticles as sustainable heterogeneous catalysts for asymmetric carbon-carbon bond-forming reactions. <i>Chemical Science</i> , 2015 , 6, 6224-6229 | 9.4 | 52 |
| 48 | Simple Homopolymer-incarcerated Gold Nanoclusters Prepared by Self-assembled Encapsulation with Aluminum Reagents as Crosslinkers: Catalysts for Aerobic Oxidation Reactions. <i>Chemistry Letters</i> , 2015 , 44, 50-52 | 1.7 | 2 |
| 47 | Size of Gold Nanoparticles Driving Selective Amide Synthesis through Aerobic Condensation of Aldehydes and Amines. <i>Angewandte Chemie</i> , 2015 , 127, 7674-7677 | 3.6 | 17 |
| 46 | Self-Assembled Nanocomposite Organic Polymers with Aluminum and Scandium as Heterogeneous Water-Compatible Lewis Acid Catalysts. <i>Angewandte Chemie</i> , 2015 , 127, 10705-10709 | 3.6 | 4 |
| 45 | Self-Assembled Nanocomposite Organic Polymers with Aluminum and Scandium as Heterogeneous Water-Compatible Lewis Acid Catalysts. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 10559-63 | 16.4 | 6 |
| 44 | Powerful Continuous-Flow Hydrogenation by using Poly(dimethyl)silane-Supported Palladium Catalysts. <i>ChemCatChem</i> , 2015 , 7, 4025-4029 | 5.2 | 36 |
| 43 | Integrated Process of Aerobic Oxidation/Defunctionalization/Asymmetric C-C Bond Formation Catalyzed by Robust Heterogeneous Gold/Palladium and Chirally Modified Rhodium Nanoparticles. <i>Advanced Synthesis and Catalysis</i> , 2015 , 357, 3815-3819 | 5.6 | 23 |
| 42 | Size of gold nanoparticles driving selective amide synthesis through aerobic condensation of aldehydes and amines. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 7564-7 | 16.4 | 54 |
| 41 | Chiral metal nanoparticle-catalyzed asymmetric C-C bond formation reactions. <i>Chemical Society Reviews</i> , 2014 , 43, 1450-61 | 58.5 | 136 |
| 40 | Tandem oxidative processes catalyzed by polymer-incarcerated multimetallic nanoclusters with molecular oxygen. <i>Accounts of Chemical Research</i> , 2014 , 47, 1054-66 | 24.3 | 81 |

- 39 Preparation of polymer incarcerated gold nanocluster catalysts (PI-Au) and their application to aerobic oxidation reactions of boronic acids, alcohols, and silyl enol ethers. *Tetrahedron*, **2014**, 70, 6039-6049 2.4 9
- 38 Copolymer-incarcerated nickel nanoparticles with N-heterocyclic carbene precursors as active cross-linking agents for Corriu-Kumada-Tamao reaction. *Journal of the American Chemical Society*, **2013**, 135, 10602-5 16.4 60
- 37 Direct amidation from alcohols and amines through a tandem oxidation process catalyzed by heterogeneous-polymer-incarcerated gold nanoparticles under aerobic conditions. *Chemistry - an Asian Journal*, **2013**, 8, 2614-26 4.5 35
- 36 A heterogeneous layered bifunctional catalyst for the integration of aerobic oxidation and asymmetric C-C bond formation. *Chemical Communications*, **2013**, 49, 9917-9 5.8 38
- 35 Selective imine formation from alcohols and amines catalyzed by polymer incarcerated gold/palladium alloy nanoparticles with molecular oxygen as an oxidant. *Chemical Communications*, **2013**, 49, 355-7 5.8 89
- 34 Hydroxylation of 1,3-Dicarbonyl Compounds Catalyzed by Polymer-incarcerated Gold Nanoclusters with Molecular Oxygen. *Chemistry Letters*, **2012**, 41, 976-978 1.7 13
- 33 A Cooperative Catalytic System of Platinum/Iridium Alloyed Nanoclusters and a Dimeric Catechol Derivative: An Efficient Synthesis of Quinazolines Through a Sequential Aerobic Oxidative Process. *Advanced Synthesis and Catalysis*, **2012**, 354, 2899-2904 5.6 77
- 32 Selective Lactam Formation from Amino Alcohols Using Polymer-Incarcerated Gold and Gold/Cobalt Nanoparticles as Catalysts under Aerobic Oxidative Conditions. *Asian Journal of Organic Chemistry*, **2012**, 1, 319-321 3 17
- 31 Oxidative transformation of N-substituted 2-aminophenols to 2-substituted benzoxazoles catalyzed by polymer-incarcerated and carbon-stabilized platinum nanoclusters. *Canadian Journal of Chemistry*, **2012**, 90, 306-313 0.9 9
- 30 Polymer-incarcerated chiral Rh/Ag nanoparticles for asymmetric 1,4-addition reactions of arylboronic acids to enones: remarkable effects of bimetallic structure on activity and metal leaching. *Journal of the American Chemical Society*, **2012**, 134, 16963-6 16.4 101
- 29 Discovery of a metalloenzyme-like cooperative catalytic system of metal nanoclusters and catechol derivatives for the aerobic oxidation of amines. *Journal of the American Chemical Society*, **2012**, 134, 13970-3 16.4 167
- 28 Multiphase Flow Systems for Selective Aerobic Oxidation of Alcohols Catalyzed by Bimetallic Nanoclusters. *Journal of Flow Chemistry*, **2012**, 2, 1-4 3.3 32
- 27 Powerful amide synthesis from alcohols and amines under aerobic conditions catalyzed by gold or gold/iron, -nickel or -cobalt nanoparticles. *Journal of the American Chemical Society*, **2011**, 133, 18550-3 16.4 236
- 26 Copper-catalyzed, aerobic oxidative cross-coupling of alkynes with arylboronic acids: remarkable selectivity in 2,6-lutidine media. *Organic and Biomolecular Chemistry*, **2011**, 9, 6208-10 3.9 21
- 25 Aerobic Oxidation of Amines Catalyzed by Polymer-Incarcerated Au Nanoclusters: Effect of Cluster Size and Cooperative Functional Groups in the Polymer. *Bulletin of the Chemical Society of Japan*, **2011**, 84, 588-599 5.1 51
- 24 Aerobic Oxidation of Alcohols and Direct Oxidative Ester Formation Catalyzed by Polymer-Immobilized Bimetallic Nanocluster Catalysts. *Kobunshi Ronbunshu*, **2011**, 68, 493-508 0 1
- 23 Rate-acceleration in gold-nanocluster-catalyzed aerobic oxidative esterification using 1,2- and 1,3-diols and their derivatives. *Chemistry - an Asian Journal*, **2011**, 6, 621-7 4.5 27
- 22 Facile Preparation of 2-Substituted Benzoxazoles and Benzothiazoles via Aerobic Oxidation of Phenolic and Thiophenolic Imines Catalyzed by Polymer-Incarcerated Platinum Nanoclusters. *Advanced Synthesis and Catalysis*, **2011**, 353, 3085-3089 5.6 44

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| 21 | Polymer-incarcerated gold-palladium nanoclusters with boron on carbon: a mild and efficient catalyst for the sequential aerobic oxidation-Michael addition of 1,3-dicarbonyl compounds to allylic alcohols. <i>Journal of the American Chemical Society</i> , 2011 , 133, 3095-103 | 16.4 | 68 |
| 20 | Remarkable effect of bimetallic nanocluster catalysts for aerobic oxidation of alcohols: combining metals changes the activities and the reaction pathways to aldehydes/carboxylic acids or esters. <i>Journal of the American Chemical Society</i> , 2010 , 132, 15096-8 | 16.4 | 145 |
| 19 | In situ coupled oxidation cycle catalyzed by highly active and reusable Pt-catalysts: dehydrogenative oxidation reactions in the presence of a catalytic amount of o-chloranil using molecular oxygen as the terminal oxidant. <i>Chemical Communications</i> , 2010 , 46, 8052-4 | 5.8 | 34 |
| 18 | Aerobic oxidative esterification of alcohols catalyzed by polymer-incarcerated gold nanoclusters under ambient conditions. <i>Green Chemistry</i> , 2010 , 12, 776 | 10 | 123 |
| 17 | Enhanced acyl radical formation in the Au nanoparticle-catalysed aldehyde oxidation. <i>Chemical Communications</i> , 2010 , 46, 145-7 | 5.8 | 49 |
| 16 | Polymer-incarcerated metal(0) cluster catalysts. <i>Chemical Record</i> , 2010 , 10, 271-90 | 6.6 | 58 |
| 15 | A Gold-Immobilized Microchannel Flow Reactor for Oxidation of Alcohols with Molecular Oxygen. <i>Angewandte Chemie</i> , 2009 , 121, 4838-4840 | 3.6 | 34 |
| 14 | A gold-immobilized microchannel flow reactor for oxidation of alcohols with molecular oxygen. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 4744-6 | 16.4 | 91 |
| 13 | Spin trapping of Au-H intermediate in the alcohol oxidation by supported and unsupported gold catalysts. <i>Journal of the American Chemical Society</i> , 2009 , 131, 7189-96 | 16.4 | 212 |
| 12 | Gold-platinum bimetallic clusters for aerobic oxidation of alcohols under ambient conditions. <i>Chemical Communications</i> , 2008 , 2031-3 | 5.8 | 83 |
| 11 | Polymer Incarcerated Gold Catalyzed Aerobic Oxidation of Hydroquinones and Their Derivatives. <i>Chemistry Letters</i> , 2008 , 37, 360-361 | 1.7 | 49 |
| 10 | Aerobic oxidation of hydroquinone derivatives catalyzed by polymer-incarcerated platinum catalyst. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 8093-5 | 16.4 | 73 |
| 9 | Aerobic Oxidation of Alcohols under Mild Conditions Catalyzed by Novel Polymer-Incarcerated, Carbon-Stabilized Gold Nanoclusters. <i>Advanced Synthesis and Catalysis</i> , 2008 , 350, 1996-2000 | 5.6 | 74 |
| 8 | Aerobic Oxidation of Hydroquinone Derivatives Catalyzed by Polymer-Incarcerated Platinum Catalyst. <i>Angewandte Chemie</i> , 2008 , 120, 8213-8215 | 3.6 | 18 |
| 7 | Aerobic oxidation of alcohols at room temperature and atmospheric conditions catalyzed by reusable gold nanoclusters stabilized by the benzene rings of polystyrene derivatives. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 4151-4 | 16.4 | 322 |
| 6 | Inside Cover: Aerobic Oxidation of Alcohols at Room Temperature and Atmospheric Conditions Catalyzed by Reusable Gold Nanoclusters Stabilized by the Benzene Rings of Polystyrene Derivatives (Angew. Chem. Int. Ed. 22/2007). <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 3992-3992 | 16.4 | 1 |
| 5 | Aerobic Oxidation of Alcohols at Room Temperature and Atmospheric Conditions Catalyzed by Reusable Gold Nanoclusters Stabilized by the Benzene Rings of Polystyrene Derivatives. <i>Angewandte Chemie</i> , 2007 , 119, 4229-4232 | 3.6 | 94 |
| 4 | Innentitelbild: Aerobic Oxidation of Alcohols at Room Temperature and Atmospheric Conditions Catalyzed by Reusable Gold Nanoclusters Stabilized by the Benzene Rings of Polystyrene Derivatives (Angew. Chem. 22/2007). <i>Angewandte Chemie</i> , 2007 , 119, 4066-4066 | 3.6 | 2 |

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| 3 | Polymer Incarcerated Ruthenium Catalyst for Oxidation of Alcohols with Molecular Oxygen. <i>Advanced Synthesis and Catalysis</i> , 2007 , 349, 531-534 | 5.6 | 43 |
| 2 | Highly active, immobilized ruthenium catalysts for oxidation of alcohols to aldehydes and ketones. Preparation and use in both batch and flow systems. <i>Journal of the American Chemical Society</i> , 2005 , 127, 9251-4 | 16.4 | 87 |
| 1 | Polymer-micelle incarcerated ruthenium catalysts for oxidation of alcohols and sulfides. <i>Tetrahedron</i> , 2005 , 61, 12177-12185 | 2.4 | 36 |