

Yu-Chen Pei

List of Publications by Year in descending order

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Version: 2024-02-01

34
papers

1,695
citations

361388

20
h-index

377849

34
g-index

35
all docs

35
docs citations

35
times ranked

2470
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | In situ observation of the crystal structure transition of Pt@Sn intermetallic nanoparticles during deactivation and regeneration. <i>Chemical Communications</i> , 2021, 57, 5454-5457. | 4.1 | 2 |
| 2 | Tandem Synthesis of ϵ -Caprolactam from Cyclohexanone by an Acidified Metal-Organic Framework. <i>ChemCatChem</i> , 2021, 13, 3084-3089. | 3.7 | 3 |
| 3 | Tandem Condensation-Hydrogenation to Produce Alkylated Nitriles Using Bifunctional Catalysts: Platinum Nanoparticles Supported on MOF-Derived Carbon. <i>ChemCatChem</i> , 2020, 12, 602-608. | 3.7 | 12 |
| 4 | Catalytic upcycling of high-density polyethylene via a processive mechanism. <i>Nature Catalysis</i> , 2020, 3, 893-901. | 34.4 | 262 |
| 5 | Single Molecule Investigation of Nanoconfinement Hydrophobicity in Heterogeneous Catalysis. <i>Journal of the American Chemical Society</i> , 2020, 142, 13305-13309. | 13.7 | 31 |
| 6 | Sub-5-nm Intermetallic Nanoparticles Confined in Mesoporous Silica Wells for Selective Hydrogenation of Acetylene to Ethylene. <i>ChemCatChem</i> , 2020, 12, 3022-3029. | 3.7 | 14 |
| 7 | Pairwise semi-hydrogenation of alkyne to <i>cis</i> -alkene on platinum-tin intermetallic compounds. <i>Nanoscale</i> , 2020, 12, 8519-8524. | 5.6 | 12 |
| 8 | Facile Fabrication of Hierarchical MOF-Metal Nanoparticle Tandem Catalysts for the Synthesis of Bioactive Molecules. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 23002-23009. | 8.0 | 27 |
| 9 | Influence of Sn on Stability and Selectivity of Pt@Sn@UiO-66-NH ₂ in Furfural Hydrogenation. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 17495-17501. | 3.7 | 16 |
| 10 | Deciphering nanoconfinement effects on molecular orientation and reaction intermediate by single molecule imaging. <i>Nature Communications</i> , 2019, 10, 4815. | 12.8 | 44 |
| 11 | Catalytic properties of intermetallic platinum-tin nanoparticles with non-stoichiometric compositions. <i>Journal of Catalysis</i> , 2019, 374, 136-142. | 6.2 | 29 |
| 12 | Atomic-Scale Structure of Mesoporous Silica-Encapsulated Pt and PtSn Nanoparticles Revealed by Dynamic Nuclear Polarization-Enhanced ²⁹ Si MAS NMR Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2019, 123, 7299-7307. | 3.1 | 9 |
| 13 | Kinetics, energetics, and size dependence of the transformation from Pt to ordered PtSn intermetallic nanoparticles. <i>Nanoscale</i> , 2019, 11, 5336-5345. | 5.6 | 25 |
| 14 | Aerobic oxidation of the C-H bond under ambient conditions using highly dispersed Co over highly porous N-doped carbon. <i>Green Chemistry</i> , 2019, 21, 1461-1466. | 9.0 | 20 |
| 15 | Room-Temperature Tandem Condensation-Hydrogenation Catalyzed by Porous C ₃ N ₄ Nanosheet-Supported Pd Nanoparticles. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 3356-3363. | 6.7 | 15 |
| 16 | Conversion of confined metal@ZIF-8 structures to intermetallic nanoparticles supported on nitrogen-doped carbon for electrocatalysis. <i>Nano Research</i> , 2018, 11, 3469-3479. | 10.4 | 46 |
| 17 | Unveiling the Effects of Linker Substitution in Suzuki Coupling with Palladium Nanoparticles in Metal-Organic Frameworks. <i>Catalysis Letters</i> , 2018, 148, 940-945. | 2.6 | 19 |
| 18 | In situ quantitative single-molecule study of dynamic catalytic processes in nanoconfinement. <i>Nature Catalysis</i> , 2018, 1, 135-140. | 34.4 | 99 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Morphology inheritance from hollow MOFs to hollow carbon polyhedrons in preparing carbon-based electrocatalysts. <i>Journal of Materials Chemistry A</i> , 2017, 5, 6186-6192. | 10.3 | 50 |
| 20 | Sub-4 nm PtZn Intermetallic Nanoparticles for Enhanced Mass and Specific Activities in Catalytic Electrooxidation Reaction. <i>Journal of the American Chemical Society</i> , 2017, 139, 4762-4768. | 13.7 | 265 |
| 21 | Silica-Encapsulated PtSn Intermetallic Nanoparticles: A Robust Catalytic Platform for Parahydrogen-Induced Polarization of Gases and Liquids. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 3925-3929. | 13.8 | 73 |
| 22 | Metal-Organic Framework-Derived Carbons: Applications as Solid-Base Catalyst and Support for Pd Nanoparticles in Tandem Catalysis. <i>Chemistry - A European Journal</i> , 2017, 23, 4266-4270. | 3.3 | 66 |
| 23 | Silica-Encapsulated PtSn Intermetallic Nanoparticles: A Robust Catalytic Platform for Parahydrogen-Induced Polarization of Gases and Liquids. <i>Angewandte Chemie</i> , 2017, 129, 3983-3987. | 2.0 | 37 |
| 24 | Cooperative Multifunctional Catalysts for Nitrone Synthesis: Platinum Nanoclusters in Amine-Functionalized Metal-Organic Frameworks. <i>Angewandte Chemie</i> , 2017, 129, 16589-16593. | 2.0 | 30 |
| 25 | Cooperative Multifunctional Catalysts for Nitrone Synthesis: Platinum Nanoclusters in Amine-Functionalized Metal-Organic Frameworks. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 16371-16375. | 13.8 | 87 |
| 26 | Intermetallic structures with atomic precision for selective hydrogenation of nitroarenes. <i>Journal of Catalysis</i> , 2017, 356, 307-314. | 6.2 | 53 |
| 27 | Synthesis of Monodisperse Palladium Nanoclusters Using Metal-Organic Frameworks as Sacrificial Templates. <i>ChemNanoMat</i> , 2016, 2, 810-815. | 2.8 | 18 |
| 28 | Impact of Linker Engineering on the Catalytic Activity of Metal-Organic Frameworks Containing Pd(II)-Bipyridine Complexes. <i>ACS Catalysis</i> , 2016, 6, 6324-6328. | 11.2 | 89 |
| 29 | A Ship-in-a-Bottle Strategy To Synthesize Encapsulated Intermetallic Nanoparticle Catalysts: Exemplified for Furfural Hydrogenation. <i>ACS Catalysis</i> , 2016, 6, 1754-1763. | 11.2 | 148 |
| 30 | Tuning surface properties of amino-functionalized silica for metal nanoparticle loading: The vital role of an annealing process. <i>Surface Science</i> , 2016, 648, 299-306. | 1.9 | 20 |
| 31 | An inorganic capping strategy for the seeded growth of versatile bimetallic nanostructures. <i>Nanoscale</i> , 2015, 7, 16721-16728. | 5.6 | 21 |
| 32 | In Situ X-ray Absorption Spectroscopy Studies of Kinetic Interaction between Platinum(II) Ions and UiO-66 Series Metal-Organic Frameworks. <i>Journal of Physical Chemistry B</i> , 2014, 118, 14168-14176. | 2.6 | 22 |
| 33 | Geometry-Assisted Three-Dimensional Superlocalization Imaging of Single-Molecule Catalysis on Modular Multilayer Nanocatalysts. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 12865-12869. | 13.8 | 24 |
| 34 | Geometry-Assisted Three-Dimensional Superlocalization Imaging of Single-Molecule Catalysis on Modular Multilayer Nanocatalysts. <i>Angewandte Chemie</i> , 2014, 126, 13079-13083. | 2.0 | 6 |