Yunxi Yao

List of Publications by Year in descending order

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233421 394421 2,055 50 19 45 citations h-index g-index papers 51 51 51 3452 citing authors all docs docs citations times ranked

| # | Article | IF | Citations |
|----|--|------|-----------|
| 1 | Interface-Confined Ferrous Centers for Catalytic Oxidation. Science, 2010, 328, 1141-1144. | 12.6 | 866 |
| 2 | Graphene cover-promoted metal-catalyzed reactions. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 17023-17028. | 7.1 | 183 |
| 3 | Insights into catalysis by gold nanoparticles and their support effects through surface science studies of model catalysts. Faraday Discussions, 2011, 152, 227. | 3.2 | 78 |
| 4 | Direct evidence of hydrogen spillover from Ni to Cu on Ni–Cu bimetallic catalysts. Journal of Molecular Catalysis A, 2014, 383-384, 239-242. | 4.8 | 65 |
| 5 | Growth and Characterization of Two-Dimensional FeO Nanoislands Supported on Pt(111). Journal of Physical Chemistry C, 2010, 114, 17069-17079. | 3.1 | 63 |
| 6 | Structural and Functional Characterizations of the Proteasome-activating Protein PA26 from Trypanosoma brucei. Journal of Biological Chemistry, 1999, 274, 33921-33930. | 3.4 | 60 |
| 7 | Highly active Pt–Fe bicomponent catalysts for CO oxidation in the presence and absence of H ₂ . Energy and Environmental Science, 2012, 5, 6313-6320. | 30.8 | 60 |
| 8 | The 2-D growth of gold on single-layer graphene/Ru(0001): Enhancement of CO adsorption. Surface Science, 2011, 605, L47-L50. | 1.9 | 56 |
| 9 | Reversible structural transformation of FeOx nanostructures on Pt under cycling redox conditions and its effect on oxidation catalysis. Physical Chemistry Chemical Physics, 2013, 15, 14708. | 2.8 | 48 |
| 10 | Size-Dependent Surface Reactions of Ag Nanoparticles Supported on Highly Oriented Pyrolytic Graphite. Langmuir, 2008, 24, 10874-10878. | 3.5 | 47 |
| 11 | In situ IR spectroscopic studies of Ni surface segregation induced by CO adsorption on Cu–Ni/SiO2 bimetallic catalysts. Physical Chemistry Chemical Physics, 2014, 16, 3823. | 2.8 | 38 |
| 12 | Preparation and characterization of atomically flat and ordered silica films on a Pd(100) surface. Thin Solid Films, 2008, 516, 3741-3746. | 1.8 | 34 |
| 13 | Dynamic molecular oxygen production in cometary comae. Nature Communications, 2017, 8, 15298. | 12.8 | 34 |
| 14 | Adsorption and thermal chemistry of formic acid on clean and oxygen-predosed Cu(110) single-crystal surfaces revisited. Surface Science, 2016, 646, 37-44. | 1.9 | 31 |
| 15 | Thermal Chemistry of Cu(I)-Iminopyrrolidinate and Cu(I)-Guanidinate Atomic Layer Deposition (ALD) Precursors on Ni(110) Single-Crystal Surfaces. Chemistry of Materials, 2013, 25, 3630-3639. | 6.7 | 26 |
| 16 | Hierarchically porous Fe/N–C hollow spheres derived from melamine/Fe-incorporated polydopamine for efficient oxygen reduction reaction electrocatalysis. Sustainable Energy and Fuels, 2019, 3, 3455-3461. | 4.9 | 25 |
| 17 | Unique Reactivity of Confined Metal Atoms on a Silicon Substrate. ChemPhysChem, 2008, 9, 975-979. | 2.1 | 24 |
| 18 | Silver Nanoparticles on Fe ₃ O ₄ (111): Energetics by Ag Adsorption Calorimetry and Structure by Surface Spectroscopies. Journal of Physical Chemistry C, 2013, 117, 24932-24936. | 3.1 | 23 |

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|----|---|------|-----------|
| 19 | Dehydrogenation of Propane to Propylene over Supported Model Ni–Au Catalysts. Catalysis Letters, 2012, 142, 714-717. | 2.6 | 21 |
| 20 | Nickel Particle Size Effects on Cyclohexane Dehydrogenation: A Combined Reaction Kinetics and Surface Science Study. Catalysis Letters, 2012, 142, 1437-1444. | 2.6 | 20 |
| 21 | Structure control of Pt–Sn bimetallic catalysts supported on highly oriented pyrolytic graphite (HOPG). Applied Surface Science, 2008, 254, 3808-3812. | 6.1 | 19 |
| 22 | Preparation and characterization of planar Ni–Au bimetallic model catalysts. Applied Surface Science, 2013, 283, 263-268. | 6.1 | 18 |
| 23 | Enhanced Methanol Dissociation on Nanostructured 2D Al Overlayers. Journal of Physical Chemistry C, 2007, 111, 13524-13530. | 3.1 | 17 |
| 24 | Thermal chemistry of copper acetamidinate atomic layer deposition precursors on silicon oxide surfaces studied by XPS. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2016, 34, . | 2.1 | 16 |
| 25 | Coadsorption of Formic Acid and Hydrazine on Cu(110) Single-Crystal Surfaces. Journal of Physical Chemistry C, 2019, 123, 7584-7593. | 3.1 | 16 |
| 26 | Direct dioxygen evolution in collisions of carbon dioxide with surfaces. Nature Communications, 2019, 10, 2294. | 12.8 | 16 |
| 27 | Effect of the nature of the substrate on the surface chemistry of atomic layer deposition precursors. Journal of Chemical Physics, 2017, 146, 052806. | 3.0 | 15 |
| 28 | New insights into structure–activity relationships for propane hydrogenolysis over Ni–Cu bimetallic catalysts. RSC Advances, 2015, 5, 43547-43551. | 3.6 | 14 |
| 29 | Thermal Decomposition of Copper Iminopyrrolidinate Atomic Layer Deposition (ALD) Precursors on Silicon Oxide Surfaces. Journal of Physical Chemistry C, 2016, 120, 14149-14156. | 3.1 | 14 |
| 30 | Activation of the dimers and tetramers of metal amidinate atomic layer deposition precursors upon adsorption on silicon oxide surfaces. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2017, 35, . | 2.1 | 12 |
| 31 | Modulation of surface reactivity via electron confinement in metal quantum well films: O2 adsorption on Pbâ·Si(111). Journal of Chemical Physics, 2008, 129, 014704. | 3.0 | 11 |
| 32 | Surface and Subsurface Structures of the Pt–Fe Surface Alloy on Pt(111). Journal of Physical Chemistry C, 2019, 123, 17225-17231. | 3.1 | 10 |
| 33 | Kinematics of Eley-Rideal Reactions at Hyperthermal Energies. Physical Review Letters, 2016, 116, 253202. | 7.8 | 9 |
| 34 | In Situ PM-IRRAS Study of CO Adsorption on Au Surfaces: Solving the Puzzle. Journal of Physical Chemistry C, 2021, 125, 8606-8619. | 3.1 | 9 |
| 35 | CO and H2 adsorption on Au-Ni bimetallic surfaces: a combined experimental and DFT theoretical study. Surface Science, 2021, 712, 121892. | 1.9 | 6 |
| 36 | Tuning Charge Transfer in Ion–Surface Collisions at Hyperthermal Energies. ChemPhysChem, 2016, 17, 1430-1434. | 2.1 | 5 |

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|----|---|------|-----------|
| 37 | Dynamic nitroxyl formation in the ammonia oxidation on platinum via Eley–Rideal reactions. Physical Chemistry Chemical Physics, 2016, 18, 29858-29863. | 2.8 | 5 |
| 38 | Direct Hydrogenation of Dinitrogen and Dioxygen via Eley–Rideal Reactions. Angewandte Chemie - International Edition, 2016, 55, 11595-11599. | 13.8 | 5 |
| 39 | Intramolecular water-splitting reaction in single collisions of water ions with surfaces. Chemical Science, 2017, 8, 2852-2858. | 7.4 | 5 |
| 40 | Insights into the lanthanum doping effect on the hydriding of cerium-lanthanum alloy. Journal of Nuclear Materials, 2019, 521, 81-88. | 2.7 | 5 |
| 41 | Thermal chemistry of hydrazine on clean and oxygen- and water-predosed Cu(110) single-crystal surfaces. Surface Science, 2016, 650, 263-271. | 1.9 | 4 |
| 42 | DYNAMIC DEUTERIUM ENRICHMENT IN COMETARY WATER VIA ELEY–RIDEAL REACTIONS. Astrophysical Journal, 2017, 835, 67. | 4.5 | 4 |
| 43 | In situ NAP-XPS study of CO2 and H2O adsorption on cerium oxide thin films. Chemical Physics Letters, 2022, 794, 139496. | 2.6 | 4 |
| 44 | Photoemission study of CCl4 adsorption on Si(111)-7×7. Surface Science, 2008, 602, 2183-2188. | 1.9 | 3 |
| 45 | Reply to "On the origin of molecular oxygen in cometary comae― Nature Communications, 2018, 9, 2581. | 12.8 | 3 |
| 46 | Formation of Periodic Arrays of O Vacancy Clusters on Monolayer FeO Islands Grown on Pt(111). Chinese Journal of Catalysis, 2010, 31, 1013-1018. | 14.0 | 2 |
| 47 | Lowâ€Temperature CO Oxidation over the Ptâ^'TiN Interfacial Dual Sites. ChemCatChem, 2021, 13, 4610-4617. | 3.7 | 2 |
| 48 | A comparative study of CCl ₄ reactions on Ag and Si surfaces by <i>in situ</i> ultraviolet photoemission electron microscopy. Journal of Physics Condensed Matter, 2009, 21, 314014. | 1.8 | 1 |
| 49 | Direct Hydrogenation of Dinitrogen and Dioxygen via Eley–Rideal Reactions. Angewandte Chemie, 2016, 128, 11767-11771. | 2.0 | 1 |
| 50 | Effect of the coexistence of CO2 and H2 on the kinetics of cerium hydriding. International Journal of Hydrogen Energy, 2022, 47, 2520-2531. | 7.1 | 1 |