

Simon K Beaumont

List of Publications by Year in descending order

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45
papers

2,098
citations

257450

24
h-index

223800

46
g-index

52
all docs

52
docs citations

52
times ranked

3403
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of concentrated NaCl on catalytic wet oxidation (CWO) of short chain carboxylic acids. Catalysis Communications, 2022, 162, 106395.	3.3	1
2	High-Ionic-Strength Wastewater Treatment via Catalytic Wet Oxidation over a MnCeO _x Catalyst. ACS Catalysis, 2022, 12, 7598-7608.	11.2	9
3	Atom efficient PtCu bimetallic catalysts and ultra dilute alloys for the selective hydrogenation of furfural. Applied Catalysis B: Environmental, 2021, 284, 119737.	20.2	49
4	Monometallic and bimetallic catalysts based on Pd, Cu and Ni for hydrogen transfer deoxygenation of a prototypical fatty acid to diesel range hydrocarbons. Catalysis Today, 2020, 355, 882-892.	4.4	35
5	Catalytic applications of layered double hydroxides in biomass valorisation. Current Opinion in Green and Sustainable Chemistry, 2020, 22, 29-38.	5.9	15
6	Capture and Release Recyclable Dimethylaminomethyl-Calixarene Functional Cloths for Point-of-Use Removal of Highly Toxic Chromium Water Pollutants. ACS Applied Materials & Interfaces, 2020, 12, 52136-52145.	8.0	9
7	Nickel-Catalysed Vapour-Phase Hydrogenation of Furfural, Insights into Reactivity and Deactivation. Topics in Catalysis, 2020, 63, 1446-1462.	2.8	18
8	A spatially orthogonal hierarchically porous acid-base catalyst for cascade and antagonistic reactions. Nature Catalysis, 2020, 3, 921-931.	34.4	75
9	Soft XAS as an <i>in situ</i> technique for the study of heterogeneous catalysts. Physical Chemistry Chemical Physics, 2020, 22, 18747-18756.	2.8	16
10	Shape-persistent porous organic cage supported palladium nanoparticles as heterogeneous catalytic materials. Nanoscale, 2019, 11, 14929-14936.	5.6	29
11	Comprehensive Experimental and Theoretical Study of the CO + NO Reaction Catalyzed by Au/Ni Nanoparticles. ACS Catalysis, 2019, 9, 4919-4929.	11.2	22
12	Palladium-poly(ionic liquid) membranes for permselective sonochemical flow catalysis. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 545, 78-85.	4.7	20
13	Catalysis of the Oxygen Evolution Reaction by 10 nm Cobalt Nanoparticles. Topics in Catalysis, 2018, 61, 977-985.	2.8	19
14	Recyclable palladium catalyst cloths for carbon-carbon coupling reactions. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2017, 520, 788-795.	4.7	15
15	Critical Role of Oxygen in Silver-Catalyzed Glaser-Hay Coupling on Ag(100) under Vacuum and in Solution on Ag Particles. ACS Catalysis, 2017, 7, 3113-3120.	11.2	8
16	Catalytic Hydrogenation and Hydrodeoxygenation of Furfural over Pt(111): A Model System for the Rational Design and Operation of Practical Biomass Conversion Catalysts. Journal of Physical Chemistry C, 2017, 121, 8490-8497.	3.1	66
17	Magnetic recyclable microcomposite silica-steel core with TiO ₂ nanocomposite shell photocatalysts for sustainable water purification. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2017, 523, 27-37.	4.7	15
18	Multi-Dimensional Multi-Functional Catalytic Architecture: A Selectively Functionalized Three-Dimensional Hierarchically Ordered Macro/Mesoporous Network for Cascade Reactions Analyzed by Electron Tomography. Microscopy and Microanalysis, 2017, 23, 2042-2043.	0.4	3

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19	Evidence for a Localized Source of the Argon in the Lunar Exosphere. <i>Journal of Geophysical Research E: Planets</i> , 2017, 122, 2163-2181.	3.6	14
20	Smart water channelling through dual wettability by leaves of the bamboo <i>Phyllostachys aurea</i> . <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016, 506, 344-355.	4.7	15
21	Selective oxidation of cyclohexene through gold functionalized silica monolith microreactors. <i>Surface Science</i> , 2016, 646, 179-185.	1.9	17
22	Spatially orthogonal chemical functionalization of a hierarchical pore network for catalytic cascade reactions. <i>Nature Materials</i> , 2016, 15, 178-182.	27.5	101
23	X-ray spectroscopic and scattering methods applied to the characterisation of cobalt-based Fischer-Tropsch synthesis catalysts. <i>Catalysis Science and Technology</i> , 2016, 6, 5773-5791.	4.1	21
24	Conquering Catalyst Complexity: Nanoparticle Synthesis and Instrument Development for Molecular and Atomistic Characterisation Under In Situ Conditions. <i>Topics in Catalysis</i> , 2015, 58, 560-572.	2.8	4
25	Sonogashira Cross-Coupling and Homocoupling on a Silver Surface: Chlorobenzene and Phenylacetylene on Ag(100). <i>Journal of the American Chemical Society</i> , 2015, 137, 940-947.	13.7	50
26	Recent developments in the application of nanomaterials to understanding molecular level processes in cobalt catalysed Fischer-Tropsch synthesis. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 5034-5043.	2.8	48
27	A Nanoscale Demonstration of Hydrogen Atom Spillover and Surface Diffusion Across Silica Using the Kinetics of CO ₂ Methanation Catalyzed on Spatially Separate Pt and Co Nanoparticles.. <i>Nano Letters</i> , 2014, 14, 4792-4796.	9.1	100
28	Combining in Situ NEXAFS Spectroscopy and CO ₂ Methanation Kinetics To Study Pt and Co Nanoparticle Catalysts Reveals Key Insights into the Role of Platinum in Promoted Cobalt Catalysis. <i>Journal of the American Chemical Society</i> , 2014, 136, 9898-9901.	13.7	94
29	Surface Composition Changes of Redox Stabilized Bimetallic CoCu Nanoparticles Supported on Silica under H ₂ and O ₂ Atmospheres and During Reaction between CO ₂ and H ₂ : In Situ X-ray Spectroscopic Characterization. <i>Journal of Physical Chemistry C</i> , 2013, 117, 21803-21809.	3.1	31
30	Exploring surface science and restructuring in reactive atmospheres of colloiddally prepared bimetallic CuNi and CuCo nanoparticles on SiO ₂ in situ using ambient pressure X-ray photoelectron spectroscopy. <i>Faraday Discussions</i> , 2013, 162, 31.	3.2	36
31	Size-Controlled Model Co Nanoparticle Catalysts for CO ₂ Hydrogenation: Synthesis, Characterization, and Catalytic Reactions. <i>Nano Letters</i> , 2012, 12, 3091-3096.	9.1	175
32	Hydrogenation of benzene and toluene over size controlled Pt/SBA-15 catalysts: Elucidation of the Pt particle size effect on reaction kinetics. <i>Journal of Catalysis</i> , 2012, 292, 64-72.	6.2	119
33	Reforming of C ₆ Hydrocarbons Over Model Pt Nanoparticle Catalysts. <i>Topics in Catalysis</i> , 2012, 55, 723-730.	2.8	19
34	In situ study of oxidation states and structure of 4nm CoPt bimetallic nanoparticles during CO oxidation using X-ray spectroscopies in comparison with reaction turnover frequency. <i>Catalysis Today</i> , 2012, 182, 54-59.	4.4	42
35	Heterogeneously catalyzing C-C coupling reactions with precious metal nanoparticles. <i>Journal of Chemical Technology and Biotechnology</i> , 2012, 87, 595-600.	3.2	44
36	Aspects of Heterogeneous Enantioselective Catalysis by Metals. <i>Langmuir</i> , 2011, 27, 9687-9695.	3.5	76

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37	CO ₂ Hydrogenation Studies on Co and CoPt Bimetallic Nanoparticles Under Reaction Conditions Using TEM, XPS and NEXAFS. <i>Topics in Catalysis</i> , 2011, 54, 778-785.	2.8	103
38	Determination of Molecular Surface Structure, Composition, and Dynamics under Reaction Conditions at High Pressures and at the Solid-Liquid Interface. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 10116-10129.	13.8	45
39	Sonogashira Coupling Catalyzed by Gold Nanoparticles: Does Homogeneous or Heterogeneous Catalysis Dominate?. <i>ChemCatChem</i> , 2010, 2, 1444-1449.	3.7	107
40	Influence of Adsorption Geometry in the Heterogeneous Enantioselective Catalytic Hydrogenation of a Prototypical Enone. <i>Journal of Physical Chemistry C</i> , 2010, 114, 15075-15077.	3.1	17
41	Identity of the Active Site in Gold Nanoparticle-Catalyzed Sonogashira Coupling of Phenylacetylene and Iodobenzene. <i>Journal of the American Chemical Society</i> , 2010, 132, 12246-12248.	13.7	123
42	Synthesis, Characterization, and Surface Tethering of Sulfide-Functionalized Ti ₁₆ -oxo-alkoxy Cages. <i>Chemistry of Materials</i> , 2010, 22, 5174-5178.	6.7	24
43	Sonogashira Coupling on an Extended Gold Surface in Vacuo: Reaction of Phenylacetylene with Iodobenzene on Au(111). <i>Journal of the American Chemical Society</i> , 2010, 132, 8081-8086.	13.7	165
44	Heterogeneous Photochemistry Relevant to the Troposphere: H ₂ O ₂ Production during the Photochemical Reduction of NO ₂ to HONO on UV-Illuminated TiO ₂ Surfaces. <i>ChemPhysChem</i> , 2009, 10, 331-333.	2.1	38
45	Heterogeneously Catalyzed Asymmetric Hydrogenation of C=C Bonds Directed by Surface-Tethered Chiral Modifiers. <i>Journal of the American Chemical Society</i> , 2009, 131, 14584-14589.	13.7	38