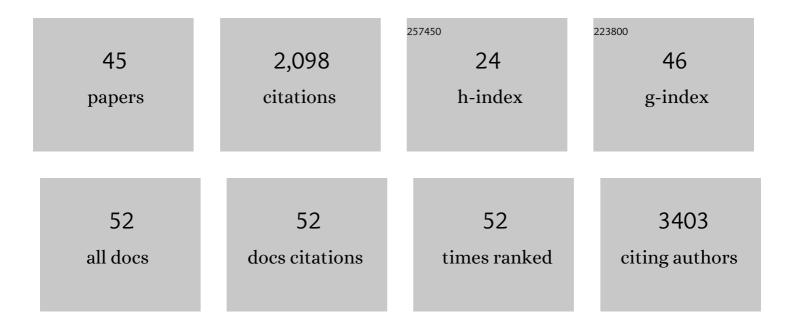
Simon K Beaumont

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Size-Controlled Model Co Nanoparticle Catalysts for CO ₂ Hydrogenation: Synthesis, Characterization, and Catalytic Reactions. Nano Letters, 2012, 12, 3091-3096.	9.1	175
2	Sonogashira Coupling on an Extended Gold Surface in Vacuo: Reaction of Phenylacetylene with lodobenzene on Au(111). Journal of the American Chemical Society, 2010, 132, 8081-8086.	13.7	165
3	Identity of the Active Site in Gold Nanoparticle-Catalyzed Sonogashira Coupling of Phenylacetylene and Iodobenzene. Journal of the American Chemical Society, 2010, 132, 12246-12248.	13.7	123
4	Hydrogenation of benzene and toluene over size controlled Pt/SBA-15 catalysts: Elucidation of the Pt particle size effect on reaction kinetics. Journal of Catalysis, 2012, 292, 64-72.	6.2	119
5	Sonogashira Coupling Catalyzed by Gold Nanoparticles: Does Homogeneous or Heterogeneous Catalysis Dominate?. ChemCatChem, 2010, 2, 1444-1449.	3.7	107
6	CO2 Hydrogenation Studies on Co and CoPt Bimetallic Nanoparticles Under Reaction Conditions Using TEM, XPS and NEXAFS. Topics in Catalysis, 2011, 54, 778-785.	2.8	103
7	Spatially orthogonal chemical functionalization ofÂa hierarchical pore network for catalytic cascadeÂreactions. Nature Materials, 2016, 15, 178-182.	27.5	101
8	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 Nano Letters, 2014, 14, 4792-4796.	9.1	100
9	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. Journal of the American Chemical Society, 2014, 136, 9898-9901.	13.7	94
10	Aspects of Heterogeneous Enantioselective Catalysis by Metals. Langmuir, 2011, 27, 9687-9695.	3.5	76
11	A spatially orthogonal hierarchically porous acid–base catalyst for cascade and antagonistic reactions. Nature Catalysis, 2020, 3, 921-931.	34.4	75
12	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
13	Sonogashira Cross-Coupling and Homocoupling on a Silver Surface: Chlorobenzene and Phenylacetylene on Ag(100). Journal of the American Chemical Society, 2015, 137, 940-947.	13.7	50
14	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
15	Recent developments in the application of nanomaterials to understanding molecular level processes in cobalt catalysed Fischer–Tropsch synthesis. Physical Chemistry Chemical Physics, 2014, 16, 5034-5043.	2.8	48
16	Determination of Molecular Surface Structure, Composition, and Dynamics under Reaction Conditions at High Pressures and at the Solid–Liquid Interface. Angewandte Chemie - International Edition, 2011, 50, 10116-10129.	13.8	45
17	Heterogeneously catalyzing C–C coupling reactions with precious metal nanoparticles. Journal of Chemical Technology and Biotechnology, 2012, 87, 595-600.	3.2	44
18	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. Catalysis Today, 2012, 182, 54-59.	4.4	42

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19	Heterogeneous Photochemistry Relevant to the Troposphere: H ₂ O ₂ Production during the Photochemical Reduction of NO ₂ to HONO on UVâ€Illuminated TiO ₂ Surfaces. ChemPhysChem, 2009, 10, 331-333.	2.1	38
20	Heterogeneously Catalyzed Asymmetric Hydrogenation of Câ•€ Bonds Directed by Surface-Tethered Chiral Modifiers. Journal of the American Chemical Society, 2009, 131, 14584-14589.	13.7	38
21	Exploring surface science and restructuring in reactive atmospheres of colloidally prepared bimetallic CuNi and CuCo nanoparticles on SiO2in situ using ambient pressure X-ray photoelectron spectroscopy. Faraday Discussions, 2013, 162, 31.	3.2	36
22	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
23	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. Journal of Physical Chemistry C, 2013. 117. 21803-21809.	3.1	31
24	Shape-persistent porous organic cage supported palladium nanoparticles as heterogeneous catalytic materials. Nanoscale, 2019, 11, 14929-14936.	5.6	29
25	Synthesis, Characterization, and Surface Tethering of Sulfide-Functionalized Ti ₁₆ -oxo-alkoxy Cages. Chemistry of Materials, 2010, 22, 5174-5178.	6.7	24
26	Comprehensive Experimental and Theoretical Study of the CO + NO Reaction Catalyzed by Au/Ni Nanoparticles. ACS Catalysis, 2019, 9, 4919-4929.	11.2	22
27	X-ray spectroscopic and scattering methods applied to the characterisation of cobalt-based Fischer–Tropsch synthesis catalysts. Catalysis Science and Technology, 2016, 6, 5773-5791.	4.1	21
28	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
29	Reforming of C6 Hydrocarbons Over Model Pt Nanoparticle Catalysts. Topics in Catalysis, 2012, 55, 723-730.	2.8	19
30	Catalysis of the Oxygen Evolution Reaction by 4–10Ânm Cobalt Nanoparticles. Topics in Catalysis, 2018, 61, 977-985.	2.8	19
31	Nickel-Catalysed Vapour-Phase Hydrogenation of Furfural, Insights into Reactivity and Deactivation. Topics in Catalysis, 2020, 63, 1446-1462.	2.8	18
32	Influence of Adsorption Geometry in the Heterogeneous Enantioselective Catalytic Hydrogenation of a Prototypical Enone. Journal of Physical Chemistry C, 2010, 114, 15075-15077.	3.1	17
33	Selective oxidation of cyclohexene through gold functionalized silica monolith microreactors. Surface Science, 2016, 646, 179-185.	1.9	17
34	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
35	Smart water channelling through dual wettability by leaves of the bamboo Phyllostachys aurea. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2016, 506, 344-355.	4.7	15
36	Recyclable palladium catalyst cloths for carbon-carbon coupling reactions. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2017, 520, 788-795.	4.7	15

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37	Magnetic recyclable microcomposite silica-steel core with TiO2 nanocomposite shell photocatalysts for sustainable water purification. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2017, 523, 27-37.	4.7	15
38	Catalytic applications of layered double hydroxides in biomass valorisation. Current Opinion in Green and Sustainable Chemistry, 2020, 22, 29-38.	5.9	15
39	Evidence for a Localized Source of the Argon in the Lunar Exosphere. Journal of Geophysical Research E: Planets, 2017, 122, 2163-2181.	3.6	14
40	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
41	High-Ionic-Strength Wastewater Treatment via Catalytic Wet Oxidation over a MnCeO _{<i>x</i>} Catalyst. ACS Catalysis, 2022, 12, 7598-7608.	11.2	9
42	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
43	Conquering Catalyst Complexity: Nanoparticle Synthesis and Instrument Development for Molecular and Atomistic Characterisation Under In Situ Conditions. Topics in Catalysis, 2015, 58, 560-572.	2.8	4
44	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
45	Effect of concentrated NaCl on catalytic wet oxidation (CWO) of short chain carboxylic acids. Catalysis Communications, 2022, 162, 106395.	3.3	1