

Robert W J Scott

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.

82 papers	4,407 citations	30 h-index	66 g-index
84 ext. papers	4,653 ext. citations	6.4 avg, IF	5.64 L-index

#	Paper	IF	Citations
82	Facile MOF-derived one-pot synthetic approach toward Ru single atoms, nanoclusters, and nanoparticles dispersed on CeO ₂ supports for enhanced ammonia synthesis. <i>Journal of Catalysis</i> , 2022 , 408, 316-328	7.3	1
81	Size-Controlled Synthesis of Modifiable Glycine-Terminated Au Nanoclusters as a Platform for Further Functionalization. <i>Langmuir</i> , 2021 , 37, 13471-13478	4	0
80	Unveiling the Surface and the Ultrastructure of Palladized Fungal Biotemplates. <i>Langmuir</i> , 2021 , 37, 12961-12971	4	0
79	Disordered TiO _x SiO _x Nanocatalysts Using Bioinspired Synthetic Routes. <i>ACS Applied Energy Materials</i> , 2021 , 4, 7691-7701	6.1	1
78	Role of the Secondary Metal in Ordered and Disordered Pt _M Intermetallic Nanoparticles: An Example of Pt ₃ Sn Nanocubes for the Electrocatalytic Methanol Oxidation. <i>ACS Catalysis</i> , 2021 , 11, 2235-2243	13.1	8
77	Exploring the structure of atom-precise silver-palladium bimetallic clusters prepared via improved single-pot co-reduction synthesis protocol. <i>Journal of Chemical Physics</i> , 2021 , 155, 084301	3.9	0
76	Probing the Thermal Stability of (3-Mercaptopropyl)-trimethoxysilane-Protected Au Clusters by In Situ Transmission Electron Microscopy. <i>Small</i> , 2021 , 17, e2004539	11	1
75	Galvanic synthesis of AgPd bimetallic catalysts from Ag clusters dispersed in a silica matrix. <i>Catalysis Science and Technology</i> , 2020 , 10, 8421-8428	5.5	2
74	Strong metal-support interactions in Pd/Co ₃ O ₄ catalyst in wet methane combustion: in situ X-ray absorption study. <i>Catalysis Science and Technology</i> , 2020 , 10, 4229-4236	5.5	7
73	Preserving the Exposed Facets of PtSn Intermetallic Nanocubes During an Order to Disorder Transition Allows the Elucidation of the Effect of the Degree of Alloy Ordering on Electrocatalysis. <i>Journal of the American Chemical Society</i> , 2020 , 142, 3231-3239	16.4	29
72	Understanding the Role of SnO ₂ Support in Water-Tolerant Methane Combustion: In situ Observation of Pd(OH) ₂ and Comparison with Pd/Al ₂ O ₃ . <i>ChemCatChem</i> , 2020 , 12, 944-952	5.2	23
71	Activation of atom-precise clusters for catalysis. <i>Nanoscale Advances</i> , 2020 , 2, 55-69	5.1	26
70	Selective oxidation of crotyl alcohol by AuPd bimetallic pseudo-single-atom catalysts. <i>Catalysis Science and Technology</i> , 2020 , 10, 7706-7718	5.5	1
69	Activation of atomically precise silver clusters on carbon supports for styrene oxidation reactions.. <i>RSC Advances</i> , 2019 , 9, 28019-28027	3.7	12
68	Au ₂₅ clusters as precursors for the synthesis of AuPd bimetallic nanoparticles with isolated atomic Pd-surface sites. <i>Molecular Catalysis</i> , 2018 , 457, 33-40	3.3	5
67	Thermal Stability of Alumina-Overcoated Au ₂₅ Clusters for Catalysis. <i>ACS Applied Nano Materials</i> , 2018 , 1, 6904-6911	5.6	5
66	Synthesis, characterization, and evaluation of iron nanoparticles as hydrogenation catalysts in alcohols and tetraalkylphosphonium ionic liquids: do solvents matter?. <i>Catalysis Science and Technology</i> , 2018 , 8, 5207-5216	5.5	1

65	In situ X-ray absorption spectroscopic studies of magnetic Fe@FexOy/Pd nanoparticle catalysts for hydrogenation reactions. <i>Catalysis Today</i> , 2017 , 291, 180-186	5.3	5
64	Synthesis of sinter-resistant Au@silica catalysts derived from Au25 clusters. <i>Catalysis Science and Technology</i> , 2017 , 7, 272-280	5.5	23
63	X-ray Absorption Spectroscopic Studies of the Penetrability of Hollow Iron Oxide Nanoparticles by Galvanic Exchange Reactions. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 19735-19742	3.8	2
62	Water shifts PdO-catalyzed lean methane combustion to Pt-catalyzed rich combustion in PdPt catalysts: In situ X-ray absorption spectroscopy. <i>Journal of Catalysis</i> , 2017 , 352, 649-656	7.3	32
61	Improving the rates of Pd-catalyzed reactions by exciting the surface plasmons of AuPd bimetallic nanotriangles. <i>RSC Advances</i> , 2017 , 7, 40218-40226	3.7	13
60	Platinum Inhibits Low-Temperature Dry Lean Methane Combustion through Palladium Reduction in Pd-Pt/Al ₂ O ₃ : An In Situ X-ray Absorption Study. <i>ChemPhysChem</i> , 2017 , 18, 238-244	3.2	19
59	Supported bimetallic AuPd clusters using activated Au25 clusters. <i>Catalysis Today</i> , 2017 , 280, 259-265	5.3	17
58	Thermal degradation mechanism of triangular Ag@SiO ₂ nanoparticles. <i>Dalton Transactions</i> , 2016 , 45, 9827-34	4.3	19
57	Au, Ag, and Cu Nanostructures 2016 , 97-123		2
56	Effect of relative humidity on crystal growth, device performance and hysteresis in planar heterojunction perovskite solar cells. <i>Nanoscale</i> , 2016 , 8, 6300-7	7.7	92
55	Solving local structure around dopants in metal nanoparticles with ab initio modeling of X-ray absorption near edge structure. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 19621-30	3.6	22
54	Following the thermal and chemical activation of supported Au clusters using X-ray absorption spectroscopy. <i>RSC Advances</i> , 2016 , 6, 62579-62584	3.7	5
53	Following the Reactivity of Au ₂₅ (SC ₈ H ₉) ₁₈ Clusters with Pd ²⁺ and Ag ⁺ Ions Using in Situ X-ray Absorption Spectroscopy: A Tale of Two Metals. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 23279-23284	3.8	11
52	In Situ X-ray Absorption Spectroscopic Study of Fe@FexOy/Pd and Fe@FexOy/Cu Nanoparticle Catalysts Prepared by Galvanic Exchange Reactions. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 21209-21218	3.8	18
51	Structural evolution of bimetallic Pd-Ru catalysts in oxidative and reductive applications. <i>Applied Catalysis A: General</i> , 2015 , 502, 350-360	5.1	6
50	Optimization of transition metal nanoparticle-phosphonium ionic liquid composite catalytic systems for deep hydrogenation and hydrodeoxygenation reactions. <i>Green Chemistry</i> , 2015 , 17, 1597-1604	10	16
49	Isolation of carboxylic acid-protected Au ₂₅ clusters using a borohydride purification strategy. <i>Langmuir</i> , 2015 , 31, 1835-41	4	12
48	Rational design and characterization of bimetallic gold-palladium nanoparticle catalysts. <i>Canadian Journal of Chemical Engineering</i> , 2015 , 93, 623-630	2.3	6

47	Panchromatic enhancement of light-harvesting efficiency in dye-sensitized solar cells using thermally annealed Au@SiO ₂ triangular nanoprisms. <i>Langmuir</i> , 2014 , 30, 14352-9	4	31
46	Watching Iron Nanoparticles Rust: An in Situ X-ray Absorption Spectroscopic Study. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 22317-22324	3.8	19
45	Design, synthesis, catalytic application, and strategic redispersion of plasmonic silver nanoparticles in ionic liquid media. <i>Journal of Molecular Catalysis A</i> , 2014 , 393, 105-111		17
44	Spectroscopic and photophysical study of the demetallation of a zinc porphyrin and the aggregation of its free base in a tetraalkylphosphonium ionic liquid. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 26252-60	3.6	10
43	Stable and recyclable Au ₂₅ clusters for the reduction of 4-nitrophenol. <i>Chemical Communications</i> , 2013 , 49, 276-8	5.8	126
42	Nanocatalysts for Hiyama, Stille, Kumada, and Negishi C-C Coupling Reactions 2013 , 133-187		2
41	Aerobic oxidation of α -unsaturated alcohols using sequentially-grown AuPd nanoparticles in water and tetraalkylphosphonium ionic liquids. <i>Catalysis Today</i> , 2013 , 207, 170-179	5.3	18
40	Following the Thermal Activation of Au ₂₅ (SR) ₁₈ Clusters for Catalysis by X-ray Absorption Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 20007-20016	3.8	50
39	Plasmonic Enhancement of Dye Sensitized Solar Cells in the Red-to-near-Infrared Region using Triangular Core-Shell Ag@SiO ₂ Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 11044-51	9.5	94
38	Redispersion of transition metal nanoparticle catalysts in tetraalkylphosphonium ionic liquids. <i>Chemical Communications</i> , 2013 , 49, 3227-9	5.8	19
37	Ceria Nanocubes: Dependence of the Electronic Structure on Synthetic and Experimental Conditions. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 10095-10105	3.8	17
36	In Situ X-ray Absorption Spectroscopic Analysis of Gold-Palladium Bimetallic Nanoparticle Catalysts. <i>ACS Catalysis</i> , 2013 , 3, 1411-1419	13.1	35
35	Highly stable noble-metal nanoparticles in tetraalkylphosphonium ionic liquids for in situ catalysis. <i>ChemSusChem</i> , 2012 , 5, 109-16	8.3	28
34	Controlled growth and catalytic activity of gold monolayer protected clusters in presence of borohydride salts. <i>Chemical Communications</i> , 2011 , 47, 8569-71	5.8	54
33	One-pot synthesis of supported-nanoparticle materials in ionic liquid solvents. <i>Materials Letters</i> , 2011 , 65, 7-9	3.3	11
32	Selective Hydrogenations with Ag-Pd Catalysts Prepared by Galvanic Exchange Reactions. <i>ChemCatChem</i> , 2011 , 3, 695-697	5.2	27
31	Selective Aerobic Oxidation of Crotyl Alcohol Using AuPd Core-Shell Nanoparticles. <i>ACS Catalysis</i> , 2011 , 1, 425-436	13.1	113
30	Fluorescently Labeled Gold Nanoparticles with Minimal Fluorescence Quenching. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 17446-17454	3.8	23

29	Spectroscopic and photophysical properties of ZnTPP in a room temperature ionic liquid. <i>Journal of Physical Chemistry A</i> , 2010 , 114, 11471-6	2.8	11
28	Surface properties of water-soluble glycine-cysteamine-protected gold clusters. <i>Langmuir</i> , 2010 , 26, 1285-90	4	19
27	Stabilizing nanoparticle catalysts in imidazolium-based ionic liquids: A comparative study. <i>Journal of Molecular Catalysis A</i> , 2010 , 329, 86-95		36
26	Hysteresis in the measurement of double-layer capacitance at the gold/ionic liquid interface. <i>Electrochemistry Communications</i> , 2010 , 12, 1340-1343	5.1	60
25	Towards the Rational Design of Supported-Bimetallic Nanoparticle Catalysts. <i>Materials Research Society Symposia Proceedings</i> , 2009 , 1217, 1		
24	Rational Design of Supported PdAu Nanoparticle Catalysts from Structured Nanoparticle Precursors. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 12719-12730	3.8	78
23	Probing the relative stability of thiolate- and dithiolate-protected Au monolayer-protected clusters. <i>Langmuir</i> , 2009 , 25, 12954-61	4	48
22	1-Methylimidazole stabilization of gold nanoparticles in imidazolium ionic liquids. <i>Chemical Communications</i> , 2009 , 812-4	5.8	98
21	Alcohol oxidations in aqueous solutions using Au, Pd, and bimetallic AuPd nanoparticle catalysts. <i>Journal of Catalysis</i> , 2008 , 253, 22-27	7.3	260
20	Chemical functionalization and modification of surface-bound cystamine/glycine monolayers on gold nanoparticles. <i>Canadian Journal of Chemistry</i> , 2008 , 86, 368-375	0.9	5
19	Bimetallic PdAu nanoparticles as hydrogenation catalysts in imidazolium ionic liquids. <i>Journal of Molecular Catalysis A</i> , 2008 , 286, 114-119		73
18	Understanding the oxidative stability of gold monolayer-protected clusters in the presence of halide ions under ambient conditions. <i>Langmuir</i> , 2007 , 23, 3381-7	4	89
17	Extraction of Metal Nanoparticles from within Dendrimer Templates. <i>ACS Symposium Series</i> , 2006 , 215-229	2.4	4
16	Titania-supported PdAu bimetallic catalysts prepared from dendrimer-encapsulated nanoparticle precursors. <i>Journal of the American Chemical Society</i> , 2005 , 127, 1380-1	16.4	189
15	Synthesis, characterization, and applications of dendrimer-encapsulated nanoparticles. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 692-704	3.4	782
14	Synthesis, characterization, and structure-selective extraction of 1-3-nm diameter AuAg dendrimer-encapsulated bimetallic nanoparticles. <i>Journal of the American Chemical Society</i> , 2005 , 127, 1015-24	16.4	218
13	Separation of Dendrimer-Encapsulated Au and Ag Nanoparticles by Selective Extraction. <i>Chemistry of Materials</i> , 2004 , 16, 4202-4204	9.6	45
12	Bimetallic palladium-gold dendrimer-encapsulated catalysts. <i>Journal of the American Chemical Society</i> , 2004 , 126, 15583-91	16.4	305

11	Titania-Supported Au and Pd Composites Synthesized from Dendrimer-Encapsulated Metal Nanoparticle Precursors. <i>Chemistry of Materials</i> , 2004 , 16, 5682-5688	9.6	64
10	Synthesis, characterization, and surface immobilization of platinum and palladium nanoparticles encapsulated within amine-terminated poly(amidoamine) dendrimers. <i>Langmuir</i> , 2004 , 20, 2915-20	4	147
9	Engineered Sensitivity of Structured Tin Dioxide Chemical Sensors: Opaline Architectures with Controlled Necking. <i>Advanced Functional Materials</i> , 2003 , 13, 225-231	15.6	64
8	Extraction of monodisperse palladium nanoparticles from dendrimer templates. <i>Journal of the American Chemical Society</i> , 2003 , 125, 11190-1	16.4	95
7	Bimetallic palladium-platinum dendrimer-encapsulated catalysts. <i>Journal of the American Chemical Society</i> , 2003 , 125, 3708-9	16.4	273
6	Non-aqueous synthesis of mesostructured tin dioxide. <i>Journal of Materials Chemistry</i> , 2003 , 13, 969-974		48
5	Synthesis, Characterization, and Stability of Dendrimer-Encapsulated Palladium Nanoparticles. <i>Chemistry of Materials</i> , 2003 , 15, 3873-3878	9.6	186
4	Electronically addressable SnO ₂ inverted opal gas sensors fabricated on interdigitated gold microelectrodes. <i>Chemical Communications</i> , 2003 , 688-9	5.8	16
3	Making sense out of sulfated tin dioxide mesostructures. <i>Journal of Materials Chemistry</i> , 2003 , 13, 1406		12
2	Self-Assembly of Microporous Thiogermanate Frameworks. <i>Journal of Chemical Education</i> , 2000 , 77, 6302.4		4
1	Synthesis of metal sulfide materials with controlled architecture. <i>Current Opinion in Solid State and Materials Science</i> , 1999 , 4, 113-121	12	42