

Robert W J Scott

List of Publications by Citations

Source: <https://exaly.com/author-pdf/8213021/robert-w-j-scott-publications-by-citations.pdf>
Version: 2024-04-09

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.
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	Synthesis, characterization, and applications of dendrimer-encapsulated nanoparticles. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 692-704	3.4	782
81	Bimetallic palladium-gold dendrimer-encapsulated catalysts. <i>Journal of the American Chemical Society</i> , 2004 , 126, 15583-91	16.4	305
80	Bimetallic palladium-platinum dendrimer-encapsulated catalysts. <i>Journal of the American Chemical Society</i> , 2003 , 125, 3708-9	16.4	273
79	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
78	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
77	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
76	Synthesis, Characterization, and Stability of Dendrimer-Encapsulated Palladium Nanoparticles. <i>Chemistry of Materials</i> , 2003 , 15, 3873-3878	9.6	186
75	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
74	Stable and recyclable Au ₂₅ clusters for the reduction of 4-nitrophenol. <i>Chemical Communications</i> , 2013 , 49, 276-8	5.8	126
73	Selective Aerobic Oxidation of Crotyl Alcohol Using AuPd Core-Shell Nanoparticles. <i>ACS Catalysis</i> , 2011 , 1, 425-436	13.1	113
72	1-Methylimidazole stabilization of gold nanoparticles in imidazolium ionic liquids. <i>Chemical Communications</i> , 2009 , 812-4	5.8	98
71	Extraction of monodisperse palladium nanoparticles from dendrimer templates. <i>Journal of the American Chemical Society</i> , 2003 , 125, 11190-1	16.4	95
70	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
69	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
68	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
67	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
66	Bimetallic PdAu nanoparticles as hydrogenation catalysts in imidazolium ionic liquids. <i>Journal of Molecular Catalysis A</i> , 2008 , 286, 114-119		73

65	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
64	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
63	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
62	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
61	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
60	Probing the relative stability of thiolate- and dithiolate-protected Au monolayer-protected clusters. <i>Langmuir</i> , 2009 , 25, 12954-61	4	48
59	Non-aqueous synthesis of mesostructured tin dioxide. <i>Journal of Materials Chemistry</i> , 2003 , 13, 969-974		48
58	Separation of Dendrimer-Encapsulated Au and Ag Nanoparticles by Selective Extraction. <i>Chemistry of Materials</i> , 2004 , 16, 4202-4204	9.6	45
57	Synthesis of metal sulfide materials with controlled architecture. <i>Current Opinion in Solid State and Materials Science</i> , 1999 , 4, 113-121	12	42
56	Stabilizing nanoparticle catalysts in imidazolium-based ionic liquids: A comparative study. <i>Journal of Molecular Catalysis A</i> , 2010 , 329, 86-95		36
55	In Situ X-ray Absorption Spectroscopic Analysis of Gold-Palladium Bimetallic Nanoparticle Catalysts. <i>ACS Catalysis</i> , 2013 , 3, 1411-1419	13.1	35
54	Water shifts PdO-catalyzed lean methane combustion to Pt-catalyzed rich combustion in Pd/Pt catalysts: In situ X-ray absorption spectroscopy. <i>Journal of Catalysis</i> , 2017 , 352, 649-656	7.3	32
53	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
52	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
51	Highly stable noble-metal nanoparticles in tetraalkylphosphonium ionic liquids for in situ catalysis. <i>ChemSusChem</i> , 2012 , 5, 109-16	8.3	28
50	Selective Hydrogenations with Ag/Pd Catalysts Prepared by Galvanic Exchange Reactions. <i>ChemCatChem</i> , 2011 , 3, 695-697	5.2	27
49	Activation of atom-precise clusters for catalysis. <i>Nanoscale Advances</i> , 2020 , 2, 55-69	5.1	26
48	Synthesis of sinter-resistant Au@silica catalysts derived from Au ₂₅ clusters. <i>Catalysis Science and Technology</i> , 2017 , 7, 272-280	5.5	23

47	Fluorescently Labeled Gold Nanoparticles with Minimal Fluorescence Quenching. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 17446-17454	3.8	23
46	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
45	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
44	Thermal degradation mechanism of triangular Ag@SiO ₂ nanoparticles. <i>Dalton Transactions</i> , 2016 , 45, 9827-34	4.3	19
43	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
42	Redispersion of transition metal nanoparticle catalysts in tetraalkylphosphonium ionic liquids. <i>Chemical Communications</i> , 2013 , 49, 3227-9	5.8	19
41	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
40	Surface properties of water-soluble glycine-cysteamine-protected gold clusters. <i>Langmuir</i> , 2010 , 26, 1285-90	4	19
39	In Situ X-ray Absorption Spectroscopic Study of Fe@Fe ₃ O ₄ /Pd and Fe@Fe ₃ O ₄ /Cu Nanoparticle Catalysts Prepared by Galvanic Exchange Reactions. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 21209-21218	3.8	18
38	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
37	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
36	Supported bimetallic AuPd clusters using activated Au ₂₅ clusters. <i>Catalysis Today</i> , 2017 , 280, 259-265	5.3	17
35	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
34	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	6.4	16
33	Electronically addressable SnO ₂ inverted opal gas sensors fabricated on interdigitated gold microelectrodes. <i>Chemical Communications</i> , 2003 , 688-9	5.8	16
32	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
31	Activation of atomically precise silver clusters on carbon supports for styrene oxidation reactions.. <i>RSC Advances</i> , 2019 , 9, 28019-28027	3.7	12
30	Isolation of carboxylic acid-protected Au ₂₅ clusters using a borohydride purification strategy. <i>Langmuir</i> , 2015 , 31, 1835-41	4	12

29	Making sense out of sulfated tin dioxide mesostructures. <i>Journal of Materials Chemistry</i> , 2003 , 13, 1406		12
28	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
27	One-pot synthesis of supported-nanoparticle materials in ionic liquid solvents. <i>Materials Letters</i> , 2011 , 65, 7-9	3.3	11
26	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
25	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
24	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	12.1	8
23	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
22	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
21	Rational design and characterization of bimetallic gold-palladium nanoparticle catalysts. <i>Canadian Journal of Chemical Engineering</i> , 2015 , 93, 623-630	2.3	6
20	In situ X-ray absorption spectroscopic studies of magnetic Fe@Fe _x O _y /Pd nanoparticle catalysts for hydrogenation reactions. <i>Catalysis Today</i> , 2017 , 291, 180-186	5.3	5
19	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
18	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
17	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
16	Thermal Stability of Alumina-Overcoated Au ₂₅ Clusters for Catalysis. <i>ACS Applied Nano Materials</i> , 2018 , 1, 6904-6911	5.6	5
15	Extraction of Metal Nanoparticles from within Dendrimer Templates. <i>ACS Symposium Series</i> , 2006 , 215-229	2.4	4
14	Self-Assembly of Microporous Thiogermanate Frameworks. <i>Journal of Chemical Education</i> , 2000 , 77, 6302-4	2.4	4
13	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
12	Au, Ag, and Cu Nanostructures		2

11	Nanocatalysts for Hiyama, Stille, Kumada, and Negishi C-C Coupling Reactions 2013 , 133-187		2
10	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
9	Selective oxidation of crotyl alcohol by AuxPd bimetallic pseudo-single-atom catalysts. <i>Catalysis Science and Technology</i> , 2020 , 10, 7706-7718	5.5	1
8	Disordered TiOx/SiOx Nanocatalysts Using Bioinspired Synthetic Routes. <i>ACS Applied Energy Materials</i> , 2021 , 4, 7691-7701	6.1	1
7	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
6	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
5	Facile MOF-derived one-pot synthetic approach toward Ru single atoms, nanoclusters, and nanoparticles dispersed on CeO2 supports for enhanced ammonia synthesis. <i>Journal of Catalysis</i> , 2022 , 408, 316-328	7.3	1
4	Size-Controlled Synthesis of Modifiable Glycine-Terminated Au Nanoclusters as a Platform for Further Functionalization. <i>Langmuir</i> , 2021 , 37, 13471-13478	4	0
3	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
2	Towards the Rational Design of Supported-Bimetallic Nanoparticle Catalysts. <i>Materials Research Society Symposia Proceedings</i> , 2009 , 1217, 1		
1	Unveiling the Surface and the Ultrastructure of Palladized Fungal Biotemplates. <i>Langmuir</i> , 2021 , 37, 12961-12971		