

# Simon M Humphrey

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/181394/publications.pdf>

Version: 2024-02-01

75  
papers

3,184  
citations

126907

33  
h-index

161849

54  
g-index

78  
all docs

78  
docs citations

78  
times ranked

4513  
citing authors

#	ARTICLE	IF	CITATIONS
1	Porous Cobalt(II)-Organic Frameworks with Corrugated Walls: Structurally Robust Gas-Sorption Materials. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 272-275.	13.8	194
2	Charge-Transfer Interaction of Poly(vinylpyrrolidone) with Platinum and Rhodium Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2007, 111, 6288-6295.	3.1	181
3	Rational Design of Rhodium-Iridium Alloy Nanoparticles as Highly Active Catalysts for Acidic Oxygen Evolution. <i>ACS Nano</i> , 2019, 13, 13225-13234.	14.6	151
4	Beneficial Effects of Microwave-Assisted Heating versus Conventional Heating in Noble Metal Nanoparticle Synthesis. <i>ACS Nano</i> , 2012, 6, 9433-9446.	14.6	140
5	Oxygen Reduction Reaction on Classically Immiscible Bimetallics: A Case Study of RhAu. <i>Journal of Physical Chemistry C</i> , 2018, 122, 2712-2716.	3.1	123
6	Microwave Synthesis of Classically Immiscible Rhodium-Silver and Rhodium-Gold Alloy Nanoparticles: Highly Active Hydrogenation Catalysts. <i>ACS Nano</i> , 2014, 8, 11512-11521.	14.6	118
7	Rhodium Nanoparticles from Cluster Seeds: Control of Size and Shape by Precursor Addition Rate. <i>Nano Letters</i> , 2007, 7, 785-790.	9.1	114
8	Sonogashira Coupling Catalyzed by Gold Nanoparticles: Does Homogeneous or Heterogeneous Catalysis Dominate?. <i>ChemCatChem</i> , 2010, 2, 1444-1449.	3.7	107
9	A Sensor for Trace H <sub>2</sub> O Detection in D <sub>2</sub> O. <i>CheM</i> , 2017, 2, 579-589.	11.7	91
10	PdAu Alloy Nanoparticle Catalysts: Effective Candidates for Nitrite Reduction in Water. <i>ACS Catalysis</i> , 2017, 7, 3268-3276.	11.2	89
11	Rational Design of Porous Coordination Polymers Based on Bis(phosphine)MCl <sub>2</sub> Complexes That Exhibit High-Temperature H <sub>2</sub> Sorption and Chemical Reactivity. <i>Journal of the American Chemical Society</i> , 2013, 135, 16038-16041.	13.7	87
12	A coordination polymer of (Ph <sub>3</sub> P)AuCl prepared by post-synthetic modification and its application in 1-hexene/n-hexane separation. <i>Chemical Communications</i> , 2011, 47, 11855.	4.1	84
13	Highly reversible sorption of H <sub>2</sub> S and CO <sub>2</sub> by an environmentally friendly Mg-based MOF. <i>Journal of Materials Chemistry A</i> , 2018, 6, 16900-16909.	10.3	81
14	Cu <sub>x</sub> Ir <sub>1-x</sub> Nanoalloy Catalysts Achieve Near 100% Selectivity for Aqueous Nitrite Reduction to NH <sub>3</sub> . <i>ACS Catalysis</i> , 2020, 10, 7915-7921.	11.2	69
15	PdAg Alloy Nanocatalysts: Toward Economically Viable Nitrite Reduction in Drinking Water. <i>ACS Catalysis</i> , 2020, 10, 7979-7989.	11.2	64
16	Metal-organophosphine and metal-organophosphonium frameworks with layered honeycomb-like structures. <i>Dalton Transactions</i> , 2009, , 2298.	3.3	61
17	Microwave-Assisted Synthesis of Classically Immiscible Ag-Ir Alloy Nanoparticle Catalysts. <i>ACS Catalysis</i> , 2018, 8, 11386-11397.	11.2	57
18	Microwave-Assisted Synthesis of Pd <sub>x</sub> Au <sub>100-x</sub> Alloy Nanoparticles: A Combined Experimental and Theoretical Assessment of Synthetic and Compositional Effects upon Catalytic Reactivity. <i>ACS Catalysis</i> , 2016, 6, 4882-4893.	11.2	54

#	ARTICLE	IF	CITATIONS
19	Separation of <i>p</i> -divinylbenzene by Selective Room-Temperature Adsorption Inside Mg-Cu Prepared by Aqueous Microwave Synthesis. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 5394-5398.	13.8	53
20	A Metal-Organic Framework with Cooperative Phosphines That Permit Post-Synthetic Installation of Open Metal Sites. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 9295-9299.	13.8	52
21	Isolated Magnetic Clusters of Co(II) and Ni(II) within 3-Dimensional Organic Frameworks of 6-Mercaptopicotinic Acid: Unique Structural Topologies Based on Selectivity for Hard and Soft Coordination Environments. <i>Inorganic Chemistry</i> , 2005, 44, 5981-5983.	4.0	50
22	A PCP Pincer Ligand for Coordination Polymers with Versatile Chemical Reactivity: Selective Activation of CO <sub>2</sub> Gas over CO Gas in the Solid State. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 12351-12355.	13.8	49
23	High capacity CO <sub>2</sub> adsorption in a Mg(ii)-based phosphine oxide coordination material. <i>Chemical Communications</i> , 2011, 47, 4899.	4.1	48
24	Li- and Na-reduction products of meso-Co <sub>3</sub> O <sub>4</sub> form high-rate, stably cycling battery anode materials. <i>Journal of Materials Chemistry A</i> , 2014, 2, 14209-14221.	10.3	48
25	A new Co(ii) coordination solid with mixed oxygen, carboxylate, pyridine and thiolate donors exhibiting canted antiferromagnetism with T <sub>C</sub> = 68 K. <i>Chemical Communications</i> , 2006, , 1607.	4.1	46
26	Porous Metal-Organic Framework CUK-1 for Adsorption Heat Allocation toward Green Applications of Natural Refrigerant Water. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 25778-25789.	8.0	45
27	High surface area mesoporous Co <sub>3</sub> O <sub>4</sub> from a direct soft template route. <i>Journal of Materials Chemistry</i> , 2012, 22, 12675.	6.7	43
28	Low-Valent Metal Ions as MOF Pillars: A New Route Toward Stable and Multifunctional MOFs. <i>Journal of the American Chemical Society</i> , 2021, 143, 13710-13720.	13.7	43
29	Gas sorption and luminescence properties of a terbium(iii)-phosphine oxide coordination material with two-dimensional pore topology. <i>Dalton Transactions</i> , 2012, 41, 8003.	3.3	41
30	Highly selective room temperature acetylene sorption by an unusual triacetylenic phosphine MOF. <i>Chemical Communications</i> , 2018, 54, 9937-9940.	4.1	40
31	Mixed Alkali Metal/Transition Metal Coordination Polymers with the Mellitic Acid Hexaanion: 2-Dimensional Hexagonal Magnetic Nets. <i>Inorganic Chemistry</i> , 2010, 49, 3441-3448.	4.0	39
32	Continuous Flow Synthesis of Rh and RhAg Alloy Nanoparticle Catalysts Enables Scalable Production and Improved Morphological Control. <i>Chemistry of Materials</i> , 2017, 29, 4341-4350.	6.7	39
33	Shape-persistent pyrrole-based covalent organic cages: synthesis, structure and selective gas adsorption properties. <i>Chemical Communications</i> , 2019, 55, 6185-6188.	4.1	36
34	Organic Vapor Sorption in a High Surface Area Dysprosium(III)-Phosphine Oxide Coordination Material. <i>Inorganic Chemistry</i> , 2012, 51, 12242-12247.	4.0	33
35	Microwave synthesis of Au-Rh core-shell nanoparticles and implications of the shell thickness in hydrogenation catalysis. <i>Chemical Communications</i> , 2013, 49, 4241.	4.1	33
36	Tuning the Host-Guest Interactions in a Phosphine Coordination Polymer through Different Types of <i>post</i> -Synthetic Modification. <i>Inorganic Chemistry</i> , 2014, 53, 282-288.	4.0	32

#	ARTICLE	IF	CITATIONS
37	Hydrogen Evolution by Ni <sub>2</sub> P Catalysts Derived from Phosphine MOFs. ACS Applied Energy Materials, 2020, 3, 176-183.	5.1	31
38	Humidity-induced CO <sub>2</sub> capture enhancement in Mg-CUK-1. Dalton Transactions, 2018, 47, 15827-15834.	3.3	29
39	Organoarsine Metal-Organic Framework with <i>cis</i> -Diarsine Pockets for the Installation of Uniquely Confined Metal Complexes. Journal of the American Chemical Society, 2018, 140, 9806-9809.	13.7	29
40	Accumulation-Driven Unified Spatiotemporal Synthesis and Structuring of Immiscible Metallic Nanoalloys. Matter, 2019, 1, 1606-1617.	10.0	29
41	Direct, One-Pot Syntheses of MOFs Decorated with Low-Valent Metal-Phosphine Complexes. Organometallics, 2019, 38, 3406-3411.	2.3	28
42	Optothermophoretic Manipulation of Colloidal Particles in Nonionic Liquids. Journal of Physical Chemistry C, 2018, 122, 24226-24234.	3.1	26
43	CO <sub>2</sub> adsorption properties of a Ca(II)-based organophosphonium coordination material. Dalton Transactions, 2012, 41, 3920.	3.3	25
44	Ship in a breakable bottle: fluoride-induced release of an organic molecule from a Pr( <sup>iii</sup> )-linked molecular cage. Chemical Communications, 2016, 52, 8514-8517.	4.1	23
45	Phosphonium zwitterions for lighter and chemically-robust MOFs: highly reversible H <sub>2</sub> S capture and solvent-triggered release. Journal of Materials Chemistry A, 2019, 7, 16842-16849.	10.3	22
46	Highly selective adsorption of <i>p</i> -xylene over other C <sub>8</sub> aromatic hydrocarbons by Co-CUK-1: a combined experimental and theoretical assessment. Dalton Transactions, 2017, 46, 16096-16101.	3.3	20
47	Magnetism of Linear [Ln <sub>3</sub> ] <sup>+9</sup> Oxo-Bridged Clusters (Ln = Pr, Nd) Supported inside a [R <sub>3</sub> PR <sub>2</sub> ] <sup>+</sup> Phosphonium Coordination Material. Inorganic Chemistry, 2014, 53, 12674-12676.	4.0	19
48	Rapid Synthesis of Rhodium-Palladium Alloy Nanocatalysts. ChemCatChem, 2018, 10, 329-333.	3.7	19
49	Bis(imino)acenaphthene (BIAN)-supported palladium( <sup>ii</sup> ) carbene complexes as effective C-C coupling catalysts and solvent effects in organic and aqueous media. Catalysis Science and Technology, 2014, 4, 1456-1464.	4.1	18
50	Reversible Solid-State Isomerism of Azobenzene-Loaded Large-Pore Isorecticular Mg-CUK-1. Journal of the American Chemical Society, 2020, 142, 6467-6471.	13.7	18
51	Synthesis and charge storage properties of templated LaMnO <sub>3</sub> -SiO <sub>2</sub> composite materials. Dalton Transactions, 2017, 46, 977-984.	3.3	17
52	1-D and 2-D phosphine coordination materials based on a palladium(II) PCP pincer metalloligand. Polyhedron, 2018, 143, 149-156.	2.2	16
53	Stabilizer-Free Cu <sub>2</sub> Alloy Nanoparticle Catalysts. Chemistry of Materials, 2019, 31, 10225-10235.	6.7	16
54	Structural characterization of heterogeneous RhAu nanoparticles from a microwave-assisted synthesis. Nanoscale, 2018, 10, 22520-22532.	5.6	15

#	ARTICLE	IF	CITATIONS
55	Rhenium(i) phenanthrolines bearing electron withdrawing CF <sub>3</sub> substituents: synthesis, characterization and biological evaluation. <i>RSC Advances</i> , 2013, 3, 23963.	3.6	13
56	Synthesis and Characterization of a Binuclear Copper(II) Naphthoisoamethyrin Complex Displaying Weak Antiferromagnetic Coupling. <i>Inorganic Chemistry</i> , 2017, 56, 12665-12669.	4.0	13
57	A Metal-Organic Framework with Cooperative Phosphines That Permit Post-Synthetic Installation of Open Metal Sites. <i>Angewandte Chemie</i> , 2018, 130, 9439-9443.	2.0	13
58	Inelastic Neutron Scattering and Theoretical Studies of H <sub>2</sub> Sorption in a Dy(III)-Based Phosphine Coordination Material. <i>Chemistry of Materials</i> , 2015, 27, 7619-7626.	6.7	10
59	Computationally Assisted STEM and EXAFS Characterization of Tunable Rh/Au and Rh/Ag Bimetallic Nanoparticle Catalysts. <i>Microscopy and Microanalysis</i> , 2017, 23, 2030-2031.	0.4	10
60	Testing the predictive power of theory for Pd <sub>x</sub> Ir <sub>(100-x)</sub> alloy nanoparticles for the oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2020, 8, 8421-8429.	10.3	9
61	Pyridine-2,4-Dicarboxylate: A Versatile Building Block for the Preparation of Functional Coordination Polymers. <i>Journal of Nanoscience and Nanotechnology</i> , 2010, 10, 34-48.	0.9	8
62	Effect of microwave heating on the synthesis of rhodium nanoparticles in ionic liquids. <i>Inorganica Chimica Acta</i> , 2014, 422, 65-69.	2.4	8
63	Synthesis and Structure of [Sn <sub>2</sub> ( <sup>1</sup> / <sub>4</sub> -PMes) <sub>3</sub> ]K <sup>+</sup> ·3THF, Exhibiting Multifunctional Coordination of [Sn <sub>2</sub> ( <sup>1</sup> / <sub>4</sub> -PMes) <sub>3</sub> ] <sup>2-</sup> Anions to K <sup>+</sup> . <i>Organometallics</i> , 2004, 23, 4821-4823.	2.3	7
64	A PCP Pincer Ligand for Coordination Polymers with Versatile Chemical Reactivity: Selective Activation of CO <sub>2</sub> Gas over CO Gas in the Solid State. <i>Angewandte Chemie</i> , 2016, 128, 12539-12543.	2.0	6
65	Dipyrrolynaphthyridine-based Schiff-base cryptands and their selective gas adsorption properties. <i>Journal of Porphyrins and Phthalocyanines</i> , 2020, 24, 424-431.	0.8	6
66	Magnetism and Luminescence of a MOF with Linear Mn <sub>3</sub> Nodes Derived from an Emissive Terthiophene-Based Imidazole Linker. <i>Molecules</i> , 2021, 26, 4286.	3.8	6
67	In situ formation and solid-state oxidation of a triselenane NSeN-pincer MOF. <i>Chemical Communications</i> , 2020, 56, 1286-1289.	4.1	5
68	Investigating H <sub>2</sub> Adsorption in Isostructural Metal-Organic Frameworks M-CUK-1 (M = Co). <i>ETQqO O O rgBT /Overlock</i> 14, 8126-8136.	8.0	5
69	A Survey of Metal-Organic Frameworks Based on Phosphorus- and Sulfur-Containing Building Blocks. <i>Series on Chemistry, Energy and the Environment</i> , 2018, , 37-141.	0.3	3
70	Thermal Stability Study of Classically Immiscible Rh-Ag Alloy Nanoparticles by in situ TEM. <i>Microscopy and Microanalysis</i> , 2016, 22, 820-821.	0.4	2
71	An unusual coordination polymer containing Cu <sup>+</sup> ions and featuring possible Cu...Cu 'cuprophilic' interactions: poly[di( <sup>1</sup> / <sub>4</sub> -chlorido-( <sup>1</sup> / <sub>4</sub> -3,5-diaminobenzoato- <sup>1</sup> / <sub>4</sub> O:O <sup>2-</sup> :N <sup>2-</sup> )tricopper(I)(3Cu <sup>+</sup> Cu)]. <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2016, 72, 63-67.	0.5	2
72	Magnetic Properties of the Distorted Kagomé Lattice Mn <sub>3</sub> (1,2,4-(O <sub>2</sub> C)C <sub>6</sub> H <sub>3</sub> ) <sub>2</sub> . <i>Inorganic Chemistry</i> , 2017, 56, 7851-7860.	4.0	2

#	ARTICLE	IF	CITATIONS
73	Organometallic Chemistry at Various Length Scales: More Than Just Metal–Carbon Bonds Bring Chemists Together. <i>Organometallics</i> , 2020, 39, 881-882.	2.3	0
74	Accumulation-Driven Surfactant-Free Synthesis of Architected Immiscible Metallic Nanoalloys with Enhanced Catalysis. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
75	Hydrothermal synthesis and crystal structure of poly[bis( $\frac{1}{4}$ -3,4-diaminobenzoato)manganese], a layered coordination polymer. <i>Acta Crystallographica Section E: Crystallographic Communications</i> , 2020, 76, 909-913.	0.5	0