

Simon M Humphrey

List of Publications by Year in descending order

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75
papers

3,184
citations

126708

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54
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docs citations

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times ranked

4513
citing authors

#	ARTICLE	IF	CITATIONS
1	Investigating H ₂ Adsorption in Isostructural Metal-Organic Frameworks M-CUK-1 (M = Co) Tj ETQq1 1 0.784314 rgBT 14, 8126-8136.	4.0	5
2	Magnetism and Luminescence of a MOF with Linear Mn ₃ Nodes Derived from an Emissive Terthiophene-Based Imidazole Linker. <i>Molecules</i> , 2021, 26, 4286.	1.7	6
3	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.	6.6	43
4	Dipyrrolynaphthyridine-based Schiff-base cryptands and their selective gas adsorption properties. <i>Journal of Porphyrins and Phthalocyanines</i> , 2020, 24, 424-431.	0.4	6
5	<i>In situ</i> formation and solid-state oxidation of a triselenane NSeN-pincer MOF. <i>Chemical Communications</i> , 2020, 56, 1286-1289.	2.2	5
6	Hydrogen Evolution by Ni ₂ P Catalysts Derived from Phosphine MOFs. <i>ACS Applied Energy Materials</i> , 2020, 3, 176-183.	2.5	31
7	PdAg Alloy Nanocatalysts: Toward Economically Viable Nitrite Reduction in Drinking Water. <i>ACS Catalysis</i> , 2020, 10, 7979-7989.	5.5	64
8	Cu _x Ir _{1-x} Nanoalloy Catalysts Achieve Near 100% Selectivity for Aqueous Nitrite Reduction to NH ₃ . <i>ACS Catalysis</i> , 2020, 10, 7915-7921.	5.5	69
9	Reversible Solid-State Isomerism of Azobenzene-Loaded Large-Pore Isoreticular Mg-CUK-1. <i>Journal of the American Chemical Society</i> , 2020, 142, 6467-6471.	6.6	18
10	Organometallic Chemistry at Various Length Scales: More Than Just Metal-Carbon Bonds Bring Chemists Together. <i>Organometallics</i> , 2020, 39, 881-882.	1.1	0
11	Testing the predictive power of theory for Pd _x Ir _(100-x) alloy nanoparticles for the oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2020, 8, 8421-8429.	5.2	9
12	Hydrothermal synthesis and crystal structure of poly[bis(1/4-3,4-diaminobenzoato)manganese], a layered coordination polymer. <i>Acta Crystallographica Section E: Crystallographic Communications</i> , 2020, 76, 909-913.	0.2	0
13	Direct, One-Pot Syntheses of MOFs Decorated with Low-Valent Metal-Phosphine Complexes. <i>Organometallics</i> , 2019, 38, 3406-3411.	1.1	28
14	Porous Metal-Organic Framework CUK-1 for Adsorption Heat Allocation toward Green Applications of Natural Refrigerant Water. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 25778-25789.	4.0	45
15	Rational Design of Rhodium-Iridium Alloy Nanoparticles as Highly Active Catalysts for Acidic Oxygen Evolution. <i>ACS Nano</i> , 2019, 13, 13225-13234.	7.3	151
16	Phosphonium zwitterions for lighter and chemically-robust MOFs: highly reversible H ₂ S capture and solvent-triggered release. <i>Journal of Materials Chemistry A</i> , 2019, 7, 16842-16849.	5.2	22
17	Shape-persistent pyrrole-based covalent organic cages: synthesis, structure and selective gas adsorption properties. <i>Chemical Communications</i> , 2019, 55, 6185-6188.	2.2	36
18	Accumulation-Driven Unified Spatiotemporal Synthesis and Structuring of Immiscible Metallic Nanoalloys. <i>Matter</i> , 2019, 1, 1606-1617.	5.0	29

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19	Stabilizer-Free CuIr Alloy Nanoparticle Catalysts. <i>Chemistry of Materials</i> , 2019, 31, 10225-10235.	3.2	16
20	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
21	Oxygen Reduction Reaction on Classically Immiscible Bimetallics: A Case Study of RhAu. <i>Journal of Physical Chemistry C</i> , 2018, 122, 2712-2716.	1.5	123
22	Rapid Synthesis of Rhodium-Palladium Alloy Nanocatalysts. <i>ChemCatChem</i> , 2018, 10, 329-333.	1.8	19
23	1-D and 2-D phosphine coordination materials based on a palladium(II) PCP pincer metalloligand. <i>Polyhedron</i> , 2018, 143, 149-156.	1.0	16
24	Humidity-induced CO ₂ capture enhancement in Mg-CUK-1. <i>Dalton Transactions</i> , 2018, 47, 15827-15834.	1.6	29
25	Structural characterization of heterogeneous RhAu nanoparticles from a microwave-assisted synthesis. <i>Nanoscale</i> , 2018, 10, 22520-22532.	2.8	15
26	Microwave-Assisted Synthesis of Classically Immiscible Ag-Ir Alloy Nanoparticle Catalysts. <i>ACS Catalysis</i> , 2018, 8, 11386-11397.	5.5	57
27	Optothermophoretic Manipulation of Colloidal Particles in Nonionic Liquids. <i>Journal of Physical Chemistry C</i> , 2018, 122, 24226-24234.	1.5	26
28	Organoarsine Metal-Organic Framework with <i>cis</i> -Diarsine Pockets for the Installation of Uniquely Confined Metal Complexes. <i>Journal of the American Chemical Society</i> , 2018, 140, 9806-9809.	6.6	29
29	A Metal-Organic Framework with Cooperative Phosphines That Permit Post-Synthetic Installation of Open Metal Sites. <i>Angewandte Chemie</i> , 2018, 130, 9439-9443.	1.6	13
30	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.	7.2	52
31	Highly reversible sorption of H ₂ S and CO ₂ by an environmentally friendly Mg-based MOF. <i>Journal of Materials Chemistry A</i> , 2018, 6, 16900-16909.	5.2	81
32	Highly selective room temperature acetylene sorption by an unusual triacetylenic phosphine MOF. <i>Chemical Communications</i> , 2018, 54, 9937-9940.	2.2	40
33	A Sensor for Trace H ₂ O Detection in D ₂ O. <i>CheM</i> , 2017, 2, 579-589.	5.8	91
34	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.	3.2	39
35	Magnetic Properties of the Distorted Kagomé Lattice Mn ₃ (1,2,4-(O ₂ C) ₃ C ₆ H ₃) ₂ . <i>Inorganic Chemistry</i> , 2017, 56, 7851-7860.	1.9	2
36	PdAu Alloy Nanoparticle Catalysts: Effective Candidates for Nitrite Reduction in Water. <i>ACS Catalysis</i> , 2017, 7, 3268-3276.	5.5	89

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37	Synthesis and charge storage properties of templated LaMnO_3 – SiO_2 composite materials. <i>Dalton Transactions</i> , 2017, 46, 977-984.	1.6	17
38	Highly selective adsorption of <i>p</i> -xylene over other C_8 aromatic hydrocarbons by Co-CUK-1: a combined experimental and theoretical assessment. <i>Dalton Transactions</i> , 2017, 46, 16096-16101.	1.6	20
39	Synthesis and Characterization of a Binuclear Copper(II) Naphthoisoamethyrin Complex Displaying Weak Antiferromagnetic Coupling. <i>Inorganic Chemistry</i> , 2017, 56, 12665-12669.	1.9	13
40	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.	0.2	10
41	Thermal Stability Study of Classically Immiscible Rh-Ag Alloy Nanoparticles by in situ TEM. <i>Microscopy and Microanalysis</i> , 2016, 22, 820-821.	0.2	2
42	Ship in a breakable bottle: fluoride-induced release of an organic molecule from a $\text{Pr}(\text{scp})$ -linked molecular cage. <i>Chemical Communications</i> , 2016, 52, 8514-8517.	2.2	23
43	A PCP Pincer Ligand for Coordination Polymers with Versatile Chemical Reactivity: Selective Activation of CO_2 Gas over CO Gas in the Solid State. <i>Angewandte Chemie</i> , 2016, 128, 12539-12543.	1.6	6
44	A PCP Pincer Ligand for Coordination Polymers with Versatile Chemical Reactivity: Selective Activation of CO_2 Gas over CO Gas in the Solid State. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 12351-12355.	7.2	49
45	Microwave-Assisted Synthesis of $\text{Pd}_x\text{Au}_{100-x}$ Alloy Nanoparticles: A Combined Experimental and Theoretical Assessment of Synthetic and Compositional Effects upon Catalytic Reactivity. <i>ACS Catalysis</i> , 2016, 6, 4882-4893.	5.5	54
46	An unusual coordination polymer containing Cu^+ ions and featuring possible $\text{Cu}\cdots\text{Cu}$ 'cuprophilic' interactions: $\text{poly}[\text{di}(\frac{1}{4}\text{-chlorido}(\frac{1}{4}\text{-3,5-diaminobenzoato}(\text{O}^2\text{-N}^2))\text{tricopper(I)}(3\text{Cu}^+\text{Cu})]$. <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2016, 72, 63-67.	0.2	2
47	Separation of <i>p</i> -divinylbenzene by Selective Room-Temperature Adsorption Inside $\text{Mg}(\text{CUK})_4$ Prepared by Aqueous Microwave Synthesis. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 5394-5398.	7.2	53
48	Inelastic Neutron Scattering and Theoretical Studies of H_2 Sorption in a Dy(III)-Based Phosphine Coordination Material. <i>Chemistry of Materials</i> , 2015, 27, 7619-7626.	3.2	10
49	Magnetism of Linear $[\text{Ln}_3]^{9+}$ Oxo-Bridged Clusters ($\text{Ln} = \text{Pr}, \text{Nd}$) Supported inside a $[\text{R}_3\text{PR}^2]^+$ Phosphonium Coordination Material. <i>Inorganic Chemistry</i> , 2014, 53, 12674-12676.	1.9	19
50	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.	1.9	32
51	Microwave Synthesis of Classically Immiscible Rhodium-Silver and Rhodium-Gold Alloy Nanoparticles: Highly Active Hydrogenation Catalysts. <i>ACS Nano</i> , 2014, 8, 11512-11521.	7.3	118
52	Li- and Na-reduction products of $\text{meso-Co}_3\text{O}_4$ form high-rate, stably cycling battery anode materials. <i>Journal of Materials Chemistry A</i> , 2014, 2, 14209-14221.	5.2	48
53	Bis(imino)acenaphthene (BIAN)-supported palladium(scp) carbene complexes as effective C^2C coupling catalysts and solvent effects in organic and aqueous media. <i>Catalysis Science and Technology</i> , 2014, 4, 1456-1464.	2.1	18
54	Effect of microwave heating on the synthesis of rhodium nanoparticles in ionic liquids. <i>Inorganica Chimica Acta</i> , 2014, 422, 65-69.	1.2	8

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55	Rhenium(i) phenanthrolines bearing electron withdrawing CF ₃ substituents: synthesis, characterization and biological evaluation. RSC Advances, 2013, 3, 23963.	1.7	13
56	Rational Design of Porous Coordination Polymers Based on Bis(phosphine)MCl ₂ Complexes That Exhibit High-Temperature H ₂ Sorption and Chemical Reactivity. Journal of the American Chemical Society, 2013, 135, 16038-16041.	6.6	87
57	Microwave synthesis of Au@Rh core-shell nanoparticles and implications of the shell thickness in hydrogenation catalysis. Chemical Communications, 2013, 49, 4241.	2.2	33
58	High surface area mesoporous Co ₃ O ₄ from a direct soft template route. Journal of Materials Chemistry, 2012, 22, 12675.	6.7	43
59	CO ₂ adsorption properties of a Ca(ii)-based organophosphonium coordination material. Dalton Transactions, 2012, 41, 3920.	1.6	25
60	Organic Vapor Sorption in a High Surface Area Dysprosium(III)-Phosphine Oxide Coordination Material. Inorganic Chemistry, 2012, 51, 12242-12247.	1.9	33
61	Beneficial Effects of Microwave-Assisted Heating <i>versus</i> Conventional Heating in Noble Metal Nanoparticle Synthesis. ACS Nano, 2012, 6, 9433-9446.	7.3	140
62	Gas sorption and luminescence properties of a terbium(iii)-phosphine oxide coordination material with two-dimensional pore topology. Dalton Transactions, 2012, 41, 8003.	1.6	41
63	A coordination polymer of (Ph ₃ P)AuCl prepared by post-synthetic modification and its application in 1-hexene/n-hexane separation. Chemical Communications, 2011, 47, 11855.	2.2	84
64	High capacity CO ₂ adsorption in a Mg(ii)-based phosphine oxide coordination material. Chemical Communications, 2011, 47, 4899.	2.2	48
65	Pyridine-2,4-Dicarboxylate: A Versatile Building Block for the Preparation of Functional Coordination Polymers. Journal of Nanoscience and Nanotechnology, 2010, 10, 34-48.	0.9	8
66	Sonogashira Coupling Catalyzed by Gold Nanoparticles: Does Homogeneous or Heterogeneous Catalysis Dominate?. ChemCatChem, 2010, 2, 1444-1449.	1.8	107
67	Mixed Alkali Metal/Transition Metal Coordination Polymers with the Mellitic Acid Hexaanion: 2-Dimensional Hexagonal Magnetic Nets. Inorganic Chemistry, 2010, 49, 3441-3448.	1.9	39
68	Metal-organophosphine and metal-organophosphonium frameworks with layered honeycomb-like structures. Dalton Transactions, 2009, , 2298.	1.6	61
69	Charge-Transfer Interaction of Poly(vinylpyrrolidone) with Platinum and Rhodium Nanoparticles. Journal of Physical Chemistry C, 2007, 111, 6288-6295.	1.5	181
70	Rhodium Nanoparticles from Cluster Seeds: Control of Size and Shape by Precursor Addition Rate. Nano Letters, 2007, 7, 785-790.	4.5	114
71	Porous Cobalt(II)-Organic Frameworks with Corrugated Walls: Structurally Robust Gas-Sorption Materials. Angewandte Chemie - International Edition, 2007, 46, 272-275.	7.2	194
72	A new Co(ii) coordination solid with mixed oxygen, carboxylate, pyridine and thiolate donors exhibiting canted antiferromagnetism with T _C = 68 K. Chemical Communications, 2006, , 1607.	2.2	46

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73	Isolated Magnetic Clusters of Co(II) and Ni(II) within 3-Dimensional Organic Frameworks of 6-Mercaptionicotinic Acid: Unique Structural Topologies Based on Selectivity for Hard and Soft Coordination Environments. <i>Inorganic Chemistry</i> , 2005, 44, 5981-5983.	1.9	50
74	Synthesis and Structure of $[\{Sn_2(\frac{1}{4}\text{-PMes})_3\}K_2 \cdot 3\text{THF}]^{\cdot}$, Exhibiting Multifunctional Coordination of $[Sn_2(\frac{1}{4}\text{-PMes})_3]^{2-}$ -Anions to K^+ . <i>Organometallics</i> , 2004, 23, 4821-4823.	1.1	7
75	Accumulation-Driven Surfactant-Free Synthesis of Architected Immiscible Metallic Nanoalloys with Enhanced Catalysis. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0