

James P S Walsh

List of Publications by Year in descending order

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516215

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docs citations

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times ranked

1777
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#	ARTICLE	IF	CITATIONS
1	'Pink'-beam X-ray powder diffraction profile and its use in Rietveld refinement. <i>Journal of Applied Crystallography</i> , 2021, 54, 3-6.	1.9	11
2	Anisotropic Structural Collapse of Mg_3Sb_2 and Mg_3Bi_2 at High Pressure. <i>Chemistry of Materials</i> , 2021, 33, 567-573.	3.2	14
3	Computationally Directed Discovery of MoBi_2 . <i>Journal of the American Chemical Society</i> , 2021, 143, 214-222.	6.6	17
4	High-Pressure Synthesis of Bulk Cobalt Cementite, Co_3C . <i>Chemistry of Materials</i> , 2021, 33, 9601-9607.	3.2	2
5	NMR Study of Spin Dynamics in V_7Zn and V_7Ni Molecular Rings. <i>Applied Magnetic Resonance</i> , 2020, 51, 1277-1293.	0.6	1
6	Pressure-Induced Collapse of Magnetic Order in Jarosite. <i>Physical Review Letters</i> , 2020, 125, 077202.	2.9	3
7	Goldschmidtite, $(\text{K,REE,Sr})(\text{Nb,Cr})\text{O}_3$: A new perovskite supergroup mineral found in diamond from Koffiefontein, South Africa. <i>American Mineralogist</i> , 2019, 104, 1345-1350.	0.9	7
8	MnBi_2 : A Metastable High-Pressure Phase in the Mn-Bi System. <i>Chemistry of Materials</i> , 2019, 31, 3083-3088.	3.2	6
9	Insights into Single-Molecule-Magnet Behavior from the Experimental Electron Density of Linear Two-Coordinate Iron Complexes. <i>Inorganic Chemistry</i> , 2019, 58, 3211-3218.	1.9	28
10	Controlling Dimensionality in the Ni-Bi System with Pressure. <i>Chemistry of Materials</i> , 2019, 31, 955-959.	3.2	8
11	High-pressure synthesis of the BiV_3O_3 perovskite. <i>Physical Review Materials</i> , 2019, 3, .	0.9	7
12	Evidence of Spin Canting, Metamagnetism, Negative Coercivity and Slow Relaxation in a Two-Dimensional Network of $\{\text{Mn}_6\}$ Cages. <i>European Journal of Inorganic Chemistry</i> , 2018, 2018, 485-492.	1.0	4
13	Discovery of Cu_3Pb . <i>Angewandte Chemie</i> , 2018, 130, 12991-12995.	1.6	3
14	Discovery of Cu_3Pb . <i>Angewandte Chemie - International Edition</i> , 2018, 57, 12809-12813.	7.2	7
15	High-Pressure Synthesis: A New Frontier in the Search for Next-Generation Intermetallic Compounds. <i>Accounts of Chemical Research</i> , 2018, 51, 1315-1323.	7.6	32
16	Impact of Pressure on Magnetic Order in Jarosite. <i>Journal of the American Chemical Society</i> , 2018, 140, 12001-12009.	6.6	9
17	Creating Binary Cu-Bi Compounds via High-Pressure Synthesis: A Combined Experimental and Theoretical Study. <i>Chemistry of Materials</i> , 2017, 29, 5276-5285.	3.2	39
18	Molecular single-ion magnets based on lanthanides and actinides: Design considerations and new advances in the context of quantum technologies. <i>Coordination Chemistry Reviews</i> , 2017, 346, 216-239.	9.5	282

#	ARTICLE	IF	CITATIONS
19	Evidence of Slow Magnetic Relaxation in Co(AcO) ₂ (py) ₂ (H ₂ O) ₂ . <i>Magnetochemistry</i> , 2016, 2, 23.	1.0	36
20	Oximate-bridged copper(II) compounds: syntheses, molecular structures, magnetic, thermal and spectroscopic properties. <i>Journal of Coordination Chemistry</i> , 2016, 69, 2329-2341.	0.8	1
21	Using Supramolecular Chemistry to Build Quantum Logic Gates. <i>CheM</i> , 2016, 1, 668-669.	5.8	10
22	Discovery of a Superconducting Cu-Bi Intermetallic Compound by High-Pressure Synthesis. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 13446-13449.	7.2	46
23	Magnetism and variable temperature and pressure crystal structures of a linear oligonuclear cobalt bis-semiquinonate. <i>Dalton Transactions</i> , 2016, 45, 12924-12932.	1.6	5
24	Discovery of a Superconducting Cu-Bi Intermetallic Compound by High-Pressure Synthesis. <i>Angewandte Chemie</i> , 2016, 128, 13644-13647.	1.6	14
25	Discovery of FeBi ₂ . <i>ACS Central Science</i> , 2016, 2, 867-871.	5.3	35
26	Dioxygen binding at a four-coordinate cobaltous porphyrin site in a metal-organic framework: structural, EPR, and O ₂ adsorption analysis. <i>Inorganic Chemistry Frontiers</i> , 2016, 3, 536-540.	3.0	43
27	Hexanuclear 3d-4f Neutral Co ^{II} ₂ Ln ^{III} ₄ Clusters: Synthesis, Structure, and Magnetism. <i>Crystal Growth and Design</i> , 2015, 15, 3157-3165.	1.4	28
28	Electronic Structure of a Mixed-Metal Fluoride-Centered Triangle Complex: A Potential Qubit Component. <i>Inorganic Chemistry</i> , 2015, 54, 12019-12026.	1.9	16
29	Discrete and polymeric cobalt organophosphates: isolation of a 3-D cobalt phosphate framework exhibiting selective CO ₂ capture. <i>Dalton Transactions</i> , 2015, 44, 5587-5601.	1.6	32
30	P-C Bond Cleavage-Assisted Lanthanide Phosphate Coordination Polymers. <i>Crystal Growth and Design</i> , 2015, 15, 2555-2560.	1.4	11
31	Synthesis, structure, and magnetism of non-planar heptanuclear lanthanide(ⁱⁱⁱ) complexes. <i>Dalton Transactions</i> , 2015, 44, 1142-1149.	1.6	18
32	Structural, magnetic and catalytic properties of cobalt chromite obtained through precursor method. <i>Materials Research Bulletin</i> , 2015, 62, 52-64.	2.7	24
33	A synthetic strategy for switching the single ion anisotropy in tetrahedral Co(ⁱⁱ) complexes. <i>Chemical Communications</i> , 2015, 51, 3739-3742.	2.2	113
34	Self-Assembly of a 3d-5f Trinuclear Single-Molecule Magnet from a Pentavalent Uranyl Complex. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 13434-13438.	7.2	63
35	Relationships between Electron Density and Magnetic Properties in Water-Bridged Dimetal Complexes. <i>Inorganic Chemistry</i> , 2014, 53, 11531-11539.	1.9	8
36	On the Possibility of Magneto-Structural Correlations: Detailed Studies of Dinickel Carboxylate Complexes. <i>Inorganic Chemistry</i> , 2014, 53, 8464-8472.	1.9	32

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37	Tetranuclear Lanthanide(III) Complexes in a Seesaw Geometry: Synthesis, Structure, and Magnetism. <i>Inorganic Chemistry</i> , 2014, 53, 3385-3391.	1.9	47
38	Innenr¼cktitelbild: Self-Assembly of a 3d-5f Trinuclear Single-Molecule Magnet from a Pentavalent Uranyl Complex (<i>Angew. Chem.</i> 49/2014). <i>Angewandte Chemie</i> , 2014, 126, 13839-13839.	1.6	0