

John S O Evans

List of Publications by Year in descending order

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4283
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#	ARTICLE	IF	CITATIONS
1	Colossal Positive and Negative Thermal Expansion in the Framework Material $\text{Ag}_3[\text{Co}(\text{CN})_6]$. <i>Science</i> , 2008, 319, 794-797.	12.6	575
2	Negative thermal expansion materials. <i>Journal of the Chemical Society Dalton Transactions</i> , 1999, , 3317-3326.	1.1	504
3	Parametric Rietveld refinement. <i>Journal of Applied Crystallography</i> , 2007, 40, 87-95.	4.5	167
4	Negative Thermal Expansion in ZrW_2O_8 : Mechanisms, Rigid Unit Modes, and Neutron Total Scattering. <i>Physical Review Letters</i> , 2005, 95, 255501.	7.8	164
5	Structural investigation of the negative-thermal-expansion material ZrW_2O_8 . <i>Acta Crystallographica Section B: Structural Science</i> , 1999, 55, 333-340.	1.8	157
6	The Crystal Structure of $\text{La}_2\text{Mo}_2\text{O}_9$ and the Structural Origin of the Oxide Ion Migration Pathway. <i>Chemistry of Materials</i> , 2005, 17, 4074-4077.	6.7	143
7	Systematic and Controllable Negative, Zero, and Positive Thermal Expansion in Cubic $\text{Zr}_x\text{Sn}_x\text{Mo}_2\text{O}_8$. <i>Journal of the American Chemical Society</i> , 2013, 135, 12849-12856.	13.7	99
8	A Synthetic Route to Size-Controlled fcc and fct FePt Nanoparticles. <i>Journal of the American Chemical Society</i> , 2005, 127, 10140-10141.	13.7	96
9	Argentophilicity-Dependent Colossal Thermal Expansion in Extended Prussian Blue Analogues. <i>Journal of the American Chemical Society</i> , 2008, 130, 9660-9661.	13.7	82
10	An X-ray Diffraction and MAS NMR Study of the Thermal Expansion Properties of Calcined Siliceous Ferrierite. <i>Journal of the American Chemical Society</i> , 2003, 125, 4342-4349.	13.7	76
11	Characterization of the Room-Temperature Structure of SnP_2O_7 by ^{31}P Through-Space and Through-Bond NMR Correlation Spectroscopy. <i>Chemistry of Materials</i> , 2003, 15, 2234-2239.	6.7	71
12	Synthesis of Size-Controlled fcc and fct FePt Nanoparticles. <i>Chemistry of Materials</i> , 2006, 18, 6414-6424.	6.7	71
13	Structural Description of Pressure-Induced Amorphization in ZrW_2O_8 . <i>Physical Review Letters</i> , 2007, 98, 225501.	7.8	65
14	Structural Study of Polymorphs and Solvates of Finasteride. <i>Journal of Pharmaceutical Sciences</i> , 2007, 96, 1380-1397.	3.3	65
15	The synthesis and characterisation of Cu_2MX_4 (M = W or Mo; X = S, Se or S/Se) materials prepared by a solvothermal method. <i>Journal of Materials Chemistry</i> , 2005, 15, 3452.	6.7	63
16	Synthesis of monodispersed fcc and fct FePt/FePd nanoparticles by microwave irradiation. <i>Journal of Materials Chemistry</i> , 2005, 15, 5136.	6.7	63
17	$\text{Bi}_2\text{Sn}_2\text{O}_7$ a 176 atom crystal structure from powder diffraction data. <i>Journal of Materials Chemistry</i> , 2003, 13, 2098-2103.	6.7	62
18	Kinetic Study of the Intercalation of Cobaltocene by Layered Metal Dichalcogenides with Time-Resolved in Situ X-ray Powder Diffraction. <i>Journal of the American Chemical Society</i> , 1998, 120, 10837-10846.	13.7	57

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19	Ferroelectric Alignment of NLO Chromophores in Layered Inorganic Lattices: A Structure of a Stilbazolium Metal Oxalate from Powder Diffraction Data. Chemistry of Materials, 2001, 13, 3813-3816.	6.7	53
20	Low-temperature nuclear and magnetic structures of LaMn_2O_7 determined by x-ray and neutron diffraction. Physical Review B, 2010, 81, .	3.2	52
21	A space group assignment of ZrP_2O_7 obtained by ^{31}P solid state NMR. Chemical Communications, 2001, , 1766-1767.	4.1	51
22	A new iron oxyselenide $\text{Ce}_2\text{O}_2\text{FeSe}_2$: synthesis and characterisation. Chemical Communications, 2011, 47, 1261-1263.	4.1	40
23	An Exhaustive Symmetry Approach to Structure Determination: Phase Transitions in $\text{Bi}_2\text{Sn}_2\text{O}_7$. Journal of the American Chemical Society, 2016, 138, 8031-8042.	13.7	40
24	Origins of the spontaneous magnetization in MnPS_3 Intercalates: A Magnetic Susceptibility and Powder Neutron Diffraction Study. Advanced Materials, 1995, 7, 735-739.	21.0	38
25	Synthesis, Structure and Properties of Several New Oxychalcogenide Materials with the General Formula $\text{A}_2\text{O}_2\text{M}_2\text{OSe}_2$ ($\text{A} = \text{Tl}, \text{Pb}, \text{Bi}, \text{Sb}, \text{Bi}, \text{Pb}, \text{Bi}, \text{Sb}$) Over	0.784314	36
26	On $\text{Sr}_2\text{NaSiO}_6$ and Sr_2SiO_6 New Superior Fast Ion Conductors. Chemistry of Materials, 2014, 26, 5187-5189.	6.7	37
27	Averaging the intensity of many-layered structures for accurate stacking-fault analysis using Rietveld refinement. Journal of Applied Crystallography, 2016, 49, 1740-1749.	4.5	36
28	The 136-Atom Structure of ZrP_2O_7 and HfP_2O_7 from Powder Diffraction Data. Inorganic Chemistry, 2006, 45, 4352-4358.	4.0	34
29	Local structure in $\text{Ag}_3[\text{Co}(\text{CN})_6]$: colossal thermal expansion, rigid unit modes and argentophilic interactions. Journal of Physics Condensed Matter, 2008, 20, 255225.	1.8	34
30	Characterization of Oxygen Dynamics in ZrW_2O_8 . Journal of the American Chemical Society, 2005, 127, 15175-15181.	13.7	33
31	Structural Relaxation of Low-Density Amorphous Ice upon Thermal Annealing. Journal of Physical Chemistry Letters, 2013, 4, 3672-3676.	4.6	33
32	Synthesis and characterisation of a new high pressure polymorph of Cu_2WS_4 . Chemical Communications, 2003, , 2292.	4.1	32
33	Synthesis, Structure and Thermal Contraction of a New Low-Temperature Polymorph of ZrMo_2O_8 . Chemistry of Materials, 2003, 15, 3406-3410.	6.7	31
34	Using ^{17}O solid-state NMR and first principles calculation to characterise structure and dynamics in inorganic framework materials. Magnetic Resonance in Chemistry, 2007, 45, S144-S155.	1.9	31
35	Structural Ferroelectric Phase Transition and Polymorphism in 2-Aminopyridine Dihydrogen Phosphate. Crystal Growth and Design, 2008, 8, 1635-1639.	3.0	30
36	Preparation, Characterization, and Structural Phase Transitions in a New Family of Semiconducting Transition Metal Oxychalcogenides $\text{La}_2\text{O}_2\text{M}_2\text{Se}_2$ ($\text{M} = \text{Mn}, \text{Co}, \text{Ni}, \text{Cu}$) Overl	0.0	30

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37	Structure of an Organometallic Intercalate: Single Crystal X-Ray and Powder Neutron Diffraction Study of $[\text{SnS}_2\{\text{Co}(\text{l-C}_5\text{H}_5)_2\}_0.31]$ and $[\text{SnS}_2\{\text{Co}(\text{l-C}_5\text{D}_5)_2\}_0.31]$. <i>Angewandte Chemie International Edition in English</i> , 1991, 30, 1156-1158.	4.4	28
38	The nature of oxygen exchange in ZrW_2O_8 revealed by two-dimensional solid-state ^{17}O NMR. <i>Chemical Communications</i> , 2004, , 392.	4.1	28
39	The superstructure determination of displacive distortions via symmetry-mode analysis. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2012, 68, 222-234.	0.3	28
40	The kinetics of low-temperature oxygen migration in ZrW_2MoO_8 . <i>Journal of Materials Chemistry</i> , 2004, 14, 151.	6.7	27
41	Structures and Phase Transitions in $(\text{MoO}_2)_2\text{P}_2\text{O}_7$. <i>Inorganic Chemistry</i> , 2010, 49, 2290-2301.	4.0	27
42	Structures and phase transitions of trigonal ZrMo_2O_8 and HfMo_2O_8 . <i>Acta Crystallographica Section B: Structural Science</i> , 2004, 60, 32-40.	1.8	26
43	Local structure in ZrW_2O_8 from neutron total scattering. <i>Journal of Physics Condensed Matter</i> , 2007, 19, 335215.	1.8	26
44	Beyond classical applications of powder diffraction. <i>Chemical Society Reviews</i> , 2004, 33, 539.	38.1	24
45	Structural Characterization and Physical Properties of the New Transition Metal Oxyselenide $\text{La}_2\text{O}_2\text{ZnSe}_2$. <i>Inorganic Chemistry</i> , 2013, 52, 2078-2085.	4.0	24
46	3D Transition Metal Ordering and Rietveld Stacking Fault Quantification in the New Oxychalcogenides $\text{La}_2\text{O}_2\text{Cu}_4\text{Cd}_2\text{Se}_2$. <i>Chemistry of Materials</i> , 2016, 28, 3184-3195.	6.7	23
47	Complex Superstructures of $\text{Mo}_2\text{P}_4\text{O}_{15}$. <i>Inorganic Chemistry</i> , 2009, 48, 9271-9281.	4.0	22
48	Supercolossal Uniaxial Negative Thermal Expansion in Chloranilic Acid Pyrazine, CA-Pyz. <i>Chemistry of Materials</i> , 2019, 31, 4514-4523.	6.7	22
49	Hexagonal perovskite related oxide ion conductor $\text{Ba}_3\text{NbMoO}_{8.5}$: phase transition, temperature evolution of the local structure and properties. <i>Journal of Materials Chemistry A</i> , 2019, 7, 25503-25510.	10.3	22
50	Structure and phase transition of Sn-substituted $\text{Zr}(1-x)\text{Sn}_x\text{W}_2\text{O}_8$. <i>Journal of Materials Chemistry</i> , 2004, 14, 2988-2994.	6.7	21
51	Structure Analysis from Powder Diffraction Data: Rietveld Refinement in Excel. <i>Journal of Chemical Education</i> , 2021, 98, 495-505.	2.3	21
52	Structural Characterization of Organometallic Sandwich Intercalates of Tin and Zirconium Dichalcogenides by X-ray and Neutron Diffraction and Solid State ^2H NMR Spectroscopy. <i>Inorganic Chemistry</i> , 1994, 33, 5515-5521.	4.0	19
53	Variable temperature structural study of bismuth lead vanadate, BiPb_2VO_6 . <i>Journal of Materials Chemistry</i> , 2002, 12, 2648-2652.	6.7	19
54	$\text{Mo}_2\text{P}_4\text{O}_{15}$? the most complex oxide structure solved by single crystal methods?. <i>Chemical Communications</i> , 2004, , 2540.	4.1	19

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55	Giant Deuteron Migration During the Isosymmetric Phase Transition in Deuterated 3,5- $\text{Pyridinedicarboxylic Acid}$. <i>Chemistry - A European Journal</i> , 2011, 17, 14942-14951.	3.3	18
56	Infinitely Adaptive Transition-Metal Ordering in $\text{Ln}_2\text{O}_2\text{MSe}_2$ -Type Oxychalcogenides. <i>Inorganic Chemistry</i> , 2015, 54, 7230-7238.	4.0	18
57	Oxide Ion and Proton Conductivity in Highly Oxygen-Deficient Cubic Perovskite $\text{SrSc}_{0.3}\text{Zn}_{0.2}\text{Ga}_{0.5}\text{O}_{2.4}$. <i>Chemistry of Materials</i> , 2020, 32, 4347-4357.	6.7	18
58	Oxide Ion and Proton Conductivity in a Family of Highly Oxygen-Deficient Perovskite Derivatives. <i>Journal of the American Chemical Society</i> , 2022, 144, 615-624.	13.7	18
59	Direct Synthesis of Cubic ZrMo_2O_8 Followed by Ultrafast In Situ Powder Diffraction. <i>Journal of the American Chemical Society</i> , 2009, 131, 17560-17562.	13.7	17
60	Structural and Mechanistic Studies of the Dehydration of $\text{MoO}_2\text{PO}_3\text{OH}\cdot\text{H}_2\text{O}$ and the In situ Identification of Two New Molybdenum Phosphates. <i>Chemistry of Materials</i> , 2010, 22, 5279-5289.	6.7	17
61	Brownmillerite-Type $\text{Sr}_2\text{ScGaO}_5$ Oxide Ion Conductor: Local Structure, Phase Transition, and Dynamics. <i>Chemistry of Materials</i> , 2019, 31, 7395-7404.	6.7	16
62	The hydrogen-bonding transition and isotope-dependent negative thermal expansion in $\text{H}_3\text{Co}(\text{CN})_6$. <i>Journal of Physics Condensed Matter</i> , 2010, 22, 404202.	1.8	15
63	Understanding the Behavior of the Above-Room-Temperature Molecular Ferroelectric 5,6-Dichloro-2-methylbenzimidazole Using Symmetry Adapted Distortion Mode Analysis. <i>Journal of the American Chemical Society</i> , 2018, 140, 13441-13448.	13.7	15
64	Infinitely Adaptive Transition Metal Oxychalcogenides: The Modulated Structures of $\text{Ce}_2\text{O}_2\text{MnSe}_2$ and $(\text{Ce}_{0.78}\text{La}_{0.22})_2\text{O}_2\text{MnSe}_2$. <i>Chemistry of Materials</i> , 2015, 27, 3121-3134.	6.7	14
65	Synthesis, Structural Characterization, and Physical Properties of the New Transition Metal Oxyselelide $\text{Ce}_2\text{O}_2\text{ZnSe}_2$. <i>Inorganic Chemistry</i> , 2015, 54, 1563-1571.	4.0	13
66	Organometallic Sandwich Compounds in Layered Lattices. <i>Comments on Inorganic Chemistry</i> , 1993, 14, 155-206.	5.2	12
67	Electronic and magnetic properties of organometallic intercalates of zirconium dichalcogenides. <i>Chemistry of Materials</i> , 1995, 7, 210-214.	6.7	11
68	Polymorph exploration of bismuth stannate using first-principles phonon mode mapping. <i>Chemical Science</i> , 2020, 11, 7904-7909.	7.4	11
69	Orientation of cobaltocenium cations intercalated into the $\text{V}_2\text{O}_5\cdot 1.6\text{H}_2\text{O}$ xerogel determined by solid-state ^2H NMR spectroscopy. <i>Journal of Materials Chemistry</i> , 1995, 5, 1383-1390.	6.7	9
70	Ab initio structure determination of BiPb_2VO_6 from powder diffraction data. <i>Chemical Communications</i> , 2001, , 1984-1985.	4.1	8
71	In situ X-ray diffraction evidence of guest molecule reorientation during an intercalation reaction. <i>Advanced Materials</i> , 1995, 7, 163-166.	21.0	6
72	Structural chemistry of $(\text{PPh}_4)_2\text{M}(\text{WS}_4)_2$ materials. <i>Dalton Transactions</i> , 2008, , 1597.	3.3	6

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73	Amorphous Mixtures of Ice and C ₆₀ Fullerene. Journal of Physical Chemistry A, 2020, 124, 5015-5022.	2.5	5
74	Oxide Ion Conductivity, Proton Conductivity, and Phase Transitions in Perovskite-Derived Ba ₃ YGa ₂ O _{7.5} 0 3 Materials. Chemistry of Materials, 2022, 34, 3185-3196.	6.7	5
75	Crystal structure and magnetic modulation in $\hat{\Gamma}^2\hat{a}^{\sim}$ Ce ₂ O ₂ FeSe ₂ . Physical Review Materials, 2017, 1, .	2.4	4
76	X-Ray and Neutron Powder Diffraction. , 2004, , 1592-1598.		1
77	The Crystal Structure of $\hat{\Gamma}^{\pm}$ -La ₂ Mo ₂ O ₉ and the Structural Origin of the Oxide Ion Migration Pathway.. ChemInform, 2005, 36, no.	0.0	1
78	Synthesis, Structure and Thermal Contraction of a New Low-Temperature Polymorph of ZrMo ₂ O ₈ .. ChemInform, 2003, 34, no.	0.0	0
79	Beyond Classical Application of Powder Diffraction.. ChemInform, 2005, 36, no.	0.0	0
80	Characterization of Oxygen Dynamics in ZrW ₂ O ₈ .. ChemInform, 2006, 37, no.	0.0	0
81	Parametric Powder Diffraction. NATO Science for Peace and Security Series B: Physics and Biophysics, 2012, , 149-163.	0.3	0