John S O Evans

List of Publications by Year
in descending order

81	3,938	147801	123424
papers	citations	31 h-index	61 g-index

89	89	89	4283
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Oxide Ion Conductivity, Proton Conductivity, and Phase Transitions in Perovskite-Derived Ba_{3â€“x}Sr_xYGa₂O_{7.5} 0 â‰ x â‰ 3 Materials. Chemistry of Materials, 2022, 34, 3185-3196.	6.7	5
2	Oxide Ion and Proton Conductivity in a Family of Highly Oxygen-Deficient Perovskite Derivatives. Journal of the American Chemical Society, 2022, 144, 615-624.	13.7	18
3	Structure Analysis from Powder Diffraction Data: Rietveld Refinement in Excel. Journal of Chemical Education, 2021, 98, 495-505.	2.3	21
4	Polymorph exploration of bismuth stannate using first-principles phonon mode mapping. Chemical Science, 2020, 11, 7904-7909.	7.4	11
5	Oxide Ion and Proton Conductivity in Highly Oxygen-Deficient Cubic Perovskite SrSc_{0.3}Zn_{0.2}Ga_{0.5}O_{2.4}. Chemistry of Materials, 2020, 32, 4347-4357.	6.7	18
6	Amorphous Mixtures of Ice and C₆₀ Fullerene. Journal of Physical Chemistry A, 2020, 124, 5015-5022.	2.5	5
7	Brownmillerite-Type Sr₂ScGaO₅ Oxide Ion Conductor: Local Structure, Phase Transition, and Dynamics. Chemistry of Materials, 2019, 31, 7395-7404.	6.7	16
8	Supercolossal Uniaxial Negative Thermal Expansion in Chloranilic Acid Pyrazine, CA-Pyz. Chemistry of Materials, 2019, 31, 4514-4523.	6.7	22
9	Hexagonal perovskite related oxide ion conductor Ba₃NbMoO_{8.5}: phase transition, temperature evolution of the local structure and properties. Journal of Materials Chemistry A, 2019, 7, 25503-25510.	10.3	22
10	Understanding the Behavior of the Above-Room-Temperature Molecular Ferroelectric 5,6-Dichloro-2-methylbenzimidazole Using Symmetry Adapted Distortion Mode Analysis. Journal of the American Chemical Society, 2018, 140, 13441-13448.	13.7	15
11	Crystal structure and magnetic modulation in Î²â˜Ce2O2FeSe2. Physical Review Materials, 2017, 1, .	2.4	4
12	3D Transition Metal Ordering and Rietveld Stacking Fault Quantification in the New Oxychalcogenides La₂O₂Cu_{2â€“4x}Cd_{2x}Se₂. Chemistry of Materials, 2016, 28, 3184-3195.	6.7	23
13	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
14	An Exhaustive Symmetry Approach to Structure Determination: Phase Transitions in Bi₂Sn₂O₇. Journal of the American Chemical Society, 2016, 138, 8031-8042.	13.7	40
15	Synthesis, Structural Characterization, and Physical Properties of the New Transition Metal Oxyselenide Ce₂O₂ZnSe₂. Inorganic Chemistry, 2015, 54, 1563-1571.	4.0	13
16	Infinitely Adaptive Transition-Metal Ordering in Ln₂O₂MSe₂-Type Oxychalcogenides. Inorganic Chemistry, 2015, 54, 7230-7238.	4.0	18
17	Infinitely Adaptive Transition Metal Oxychalcogenides: The Modulated Structures of Ce₂O₂MnSe₂ and (Ce_{0.78}La_{0.22})₂O₂MnSe₂. Chemistry of Materials, 2015, 27, 3121-3134.	6.7	14
18	On Sr_{1â€“x}Na_xSiO_{3â€“0.5x} New Superior Fast Ion Conductors. Chemistry of Materials, 2014, 26, 5187-5189.	6.7	37

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19	Systematic and Controllable Negative, Zero, and Positive Thermal Expansion in Cubic Zr_{1â€“x}Sn_xMo₂O₈. Journal of the American Chemical Society, 2013, 135, 12849-12856.	13.7	99
20	Structural Relaxation of Low-Density Amorphous Ice upon Thermal Annealing. Journal of Physical Chemistry Letters, 2013, 4, 3672-3676.	4.6	33
21	Structural Characterization and Physical Properties of the New Transition Metal Oxyselenide La₂O₂ZnSe₂. Inorganic Chemistry, 2013, 52, 2078-2085.	4.0	24
22	The superstructure determination of displacive distortionsviasymmetry-mode analysis. Acta Crystallographica Section A: Foundations and Advances, 2012, 68, 222-234.	0.3	28
23	Parametric Powder Diffraction. NATO Science for Peace and Security Series B: Physics and Biophysics, 2012, , 149-163.	0.3	0
24	A new iron oxyselenide Ce2O2FeSe2: synthesis and characterisation. Chemical Communications, 2011, 47, 1261-1263.	4.1	40
25	Synthesis, Structure and Properties of Several New Oxychalcogenide Materials with the General Formula A₂O₂M₂OSe₂ (A =) Tj ETQq1 1 0.784314 rgBT /Ov	0.7	38
26	Giant Deuteron Migration During the Isosymmetric Phase Transition in Deuterated 3,5â€Pyridinedicarboxylic Acid. Chemistry - A European Journal, 2011, 17, 14942-14951.	3.3	18
27	Preparation, Characterization, and Structural Phase Transitions in a New Family of Semiconducting Transition Metal Oxychalcogenides Î²-La₂O₂MSe₂ (M) Tj ETQq1 1 0.784314 rgBT	6.7	46
28	Low-temperature nuclear and magnetic structures of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>La</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:msub> x-ray and. Physical Review B, 2010, 81, .	3.2	52
29	Structural and Mechanistic Studies of the Dehydration of MoO₂PO₃OHÂ·H₂O and the In situ Identification of Two New Molybdenum Phosphates. Chemistry of Materials, 2010, 22, 5279-5289.	6.7	17
30	Structures and Phase Transitions in (MoO₂)₂P₂O₇. Inorganic Chemistry, 2010, 49, 2290-2301.	4.0	27
31	The hydrogen-bonding transition and isotope-dependent negative thermal expansion in H₃Co(CN)₆. Journal of Physics Condensed Matter, 2010, 22, 404202.	1.8	15
32	Complex Superstructures of Mo2P4O15. Inorganic Chemistry, 2009, 48, 9271-9281.	4.0	22
33	Direct Synthesis of Cubic ZrMo₂O₈ Followed by Ultrafast In Situ Powder Diffraction. Journal of the American Chemical Society, 2009, 131, 17560-17562.	13.7	17
34	Colossal Positive and Negative Thermal Expansion in the Framework Material Ag ₃ [Co(CN) ₆]. Science, 2008, 319, 794-797.	12.6	575
35	Argentophilicity-Dependent Colossal Thermal Expansion in Extended Prussian Blue Analogues. Journal of the American Chemical Society, 2008, 130, 9660-9661.	13.7	82
36	Structural chemistry of (PPh4)2M(WS4)2 materials. Dalton Transactions, 2008, , 1597.	3.3	6

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37	Structural Ferroelectric Phase Transition and Polymorphism in 2-Aminopyridine Dihydrogen Phosphate. Crystal Growth and Design, 2008, 8, 1635-1639.	3.0	30
38	Local structure in Ag₃[Co(CN)₆]: colossal thermal expansion, rigid unit modes and argentophilic interactions. Journal of Physics Condensed Matter, 2008, 20, 255225.	1.8	34
39	Structural Description of Pressure-Induced Amorphization inZrW2O8. Physical Review Letters, 2007, 98, 225501.	7.8	65
40	Local structure in ZrW₂O₈from neutron total scattering. Journal of Physics Condensed Matter, 2007, 19, 335215.	1.8	26
41	Using17O 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
42	Structural Study of Polymorphs and Solvates of Finasteride. Journal of Pharmaceutical Sciences, 2007, 96, 1380-1397.	3.3	65
43	Parametric Rietveld refinement. Journal of Applied Crystallography, 2007, 40, 87-95.	4.5	167
44	The 136-Atom Structure of ZrP2O7 and HfP2O7 from Powder Diffraction Data. Inorganic Chemistry, 2006, 45, 4352-4358.	4.0	34
45	Synthesis of Size-Controlled fcc and fct FePt Nanoparticles. Chemistry of Materials, 2006, 18, 6414-6424.	6.7	71
46	Characterization of Oxygen Dynamics in ZrW2O8.. ChemInform, 2006, 37, no.	0.0	0
47	Beyond Classical Application of Powder Diffraction.. ChemInform, 2005, 36, no.	0.0	0
48	The Crystal Structure of Î±-La2Mo2O9 and the Structural Origin of the Oxide Ion Migration Pathway.. ChemInform, 2005, 36, no.	0.0	1
49	Negative Thermal Expansion inZrW2O8: Mechanisms, Rigid Unit Modes, and Neutron Total Scattering. Physical Review Letters, 2005, 95, 255501.	7.8	164
50	The synthesis and characterisation of Cu2MX4(M = W or Mo; X = S, Se or S/Se) materials prepared by a solvothermal method. Journal of Materials Chemistry, 2005, 15, 3452.	6.7	63
51	Synthesis of monodispersed fcc and fct FePt/FePd nanoparticles by microwave irradiation. Journal of Materials Chemistry, 2005, 15, 5136.	6.7	63
52	Characterization of Oxygen Dynamics in ZrW2O8. Journal of the American Chemical Society, 2005, 127, 15175-15181.	13.7	33
53	A Synthetic Route to Size-Controlled fcc and fct FePt Nanoparticles. Journal of the American Chemical Society, 2005, 127, 10140-10141.	13.7	96
54	The Crystal Structure of Î±-La₂Mo₂O₉ and the Structural Origin of the Oxide Ion Migration Pathway. Chemistry of Materials, 2005, 17, 4074-4077.	6.7	143

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55	Xâ€Ray and Neutron Powder Diffraction. , 2004, , 1592-1598.		1
56	Structures and phase transitions of trigonal ZrMo2O8 and HfMo2O8. Acta Crystallographica Section B: Structural Science, 2004, 60, 32-40.	1.8	26
57	The kinetics of low-temperature oxygen migration in ZrWMoO8. Journal of Materials Chemistry, 2004, 14, 151.	6.7	27
58	Structure and phase transition of Sn-substituted Zr(1â^'x)SnxW2O8. Journal of Materials Chemistry, 2004, 14, 2988-2994.	6.7	21
59	The nature of oxygen exchange in ZrW2O8 revealed by two-dimensional solid-state 17O NMR. Chemical Communications, 2004, , 392.	4.1	28
60	Mo2P4O15? the most complex oxide structure solved by single crystal methods?. Chemical Communications, 2004, , 2540.	4.1	19
61	Beyond classical applications of powder diffraction. Chemical Society Reviews, 2004, 33, 539.	38.1	24
62	Synthesis, Structure and Thermal Contraction of a New Low-Temperature Polymorph of ZrMo2O8.. ChemInform, 2003, 34, no.	0.0	0
63	Characterization of the Room-Temperature Structure of SnP2O7by31P Through-Space and Through-Bond NMR Correlation Spectroscopy. Chemistry of Materials, 2003, 15, 2234-2239.	6.7	71
64	Synthesis, Structure and Thermal Contraction of a New Low-Temperature Polymorph of ZrMo2O8. Chemistry of Materials, 2003, 15, 3406-3410.	6.7	31
65	Î±-Bi2Sn2O7â€“ a 176 atom crystal structure from powder diffraction data. Journal of Materials Chemistry, 2003, 13, 2098-2103.	6.7	62
66	An X-ray Diffraction and MAS NMR Study of the Thermal Expansion Properties of Calcined Siliceous Ferrierite. Journal of the American Chemical Society, 2003, 125, 4342-4349.	13.7	76
67	Synthesis and characterisation of a new high pressure polymorph of Cu2WS4. Chemical Communications, 2003, , 2292.	4.1	32
68	Variable temperature structural study of bismuth lead vanadate, BiPb2VO6. Journal of Materials Chemistry, 2002, 12, 2648-2652.	6.7	19
69	Ab initio structure determination of BiPb2VO6 from powder diffraction data. Chemical Communications, 2001, , 1984-1985.	4.1	8
70	A space group assignment of ZrP2O7 obtained by 31P solid state NMR. Chemical Communications, 2001, , 1766-1767.	4.1	51
71	Ferroelectric Alignment of NLO Chromophores in Layered Inorganic Lattices:Â Structure of a Stilbazolium Metalâ^'Oxalate from Powder Diffraction Data. Chemistry of Materials, 2001, 13, 3813-3816.	6.7	53
72	Structural investigation of the negative-thermal-expansion material ZrW2O8. Acta Crystallographica Section B: Structural Science, 1999, 55, 333-340.	1.8	157

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73	Negative thermal expansion materialsâ€Šâ€. Journal of the Chemical Society Dalton Transactions, 1999, , 3317-3326.	1.1	504
74	Kinetic Study of the Intercalation of Cobaltocene by Layered Metal Dichalcogenides with Time-Resolved in Situ X-ray Powder Diffraction. Journal of the American Chemical Society, 1998, 120, 10837-10846.	13.7	57
75	In situ X-ray diffraction evidence of guest molecule reorientation during an intercalation reaction. Advanced Materials, 1995, 7, 163-166.	21.0	6
76	Origins of the spontaneous magnetization in MnPS3 Intercalates: A Magnetic Susceptibility and Powder Neutron Diffraction Study. Advanced Materials, 1995, 7, 735-739.	21.0	38
77	Electronic and magnetic properties of organometallic intercalates of zirconium dichalcogenides. Chemistry of Materials, 1995, 7, 210-214.	6.7	11
78	Orientation of cobaltocenium cations intercalated into the V2O5Â·1.6H2O xerogel determined by solid-state2H NMR spectroscopy. Journal of Materials Chemistry, 1995, 5, 1383-1390.	6.7	9
79	Structural Characterization of Organometallic Sandwich Intercalates of Tin and Zirconium Dichalcogenides by X-ray and Neutron Diffraction and Solid State 2H NMR Spectroscopy. Inorganic Chemistry, 1994, 33, 5515-5521.	4.0	19
80	Organometallic Sandwich Compounds in Layered Lattices. Comments on Inorganic Chemistry, 1993, 14, 155-206.	5.2	12
81	Structure of an Organometallic Intercalate: Single Crystal X-Ray and Powder Neutron Diffraction Study of[SnS2{Co(Î·-C5H5)2}0.31] and[SnS2{Co(Î·-C5D5)2}0.31]. Angewandte Chemie International Edition in English, 1991, 30, 1156-1158.	4.4	28