Angus P Wilkinson

List of Publications by Year
in descending order

99 papers	4,311 citations	125106 35 h-index	129628 63 g-index
109 all docs	109 docs citations	109 times ranked	4077 citing authors

#	Article	IF	Citations
1	Hybrid Double Perovskite Containing Helium: [He₂][CaZr]F₆. Chemistry of Materials, 2021, 33, 3132-3138.	3.2	7
2	Thermal Expansion, Response to Pressure, and Reversible Pressure-Induced Amorphization in Anion Excess ReO₃-Type Cubic LuZrF₇. Chemistry of Materials, 2020, 32, 9470-9475.	3.2	2
3	Thermal Expansion and Response to Pressure of Double-ReO₃-Type Fluorides NaM^VF₆ (M = Nb, Ta). Inorganic Chemistry, 2020, 59, 13979-13987.	1.9	3
4	Controlling the Phase Behavior of Low and Negative Thermal Expansion ReO₃-Type Fluorides using Interstitial Anions: Sc_{1â€“x}Zr_xF_{3+x}. Inorganic Chemistry, 2020, 59, 7188-7194.	1.9	5
5	Tuning Thermal Expansion in Metalâ€“Organic Frameworks Using a Mixed Linker Solid Solution Approach. Journal of the American Chemical Society, 2019, 141, 12849-12854.	6.6	41
6	Negative Thermal Expansion Design Strategies in a Diverse Series of Metalâ€“Organic Frameworks. Advanced Functional Materials, 2019, 29, 1904669.	7.8	48
7	Controlling the Negative Thermal Expansion and Response to Pressure in ReO₃-type Fluorides by the Deliberate Introduction of Excess Fluoride: Mg_{1â€“x}Zr_{1+x}F_{6+2x}, x = 0.15, 0.30, 0.40, and 0.50. Chemistry of Materials, 2019, 31, 3440-3448.	3.2	14
8	Effects of composition on crystal structure, thermal expansion, and response to pressure in ReO3-type MNbF6(Mâ€¯=â€¯Mn and Zn). Journal of Solid State Chemistry, 2019, 269, 428-433.	1.4	11
9	Zero Thermal Expansion and Abrupt Amorphization on Compression in Anion Excess ReO3-Type Cubic YbZrF7. Chemistry of Materials, 2018, 30, 3071-3077.	3.2	19
10	Phase behaviour, thermal expansion and compressibility of SnMo2O8. Journal of Solid State Chemistry, 2018, 258, 885-893.	1.4	6
11	Negative Thermal Expansion, Response to Pressure and Phase Transitions in CaTiF₆. Inorganic Chemistry, 2018, 57, 11275-11281.	1.9	28
12	Pressure-dependence of the phase transitions and thermal expansion in zirconium and hafnium pyrovanadate. Journal of Solid State Chemistry, 2017, 249, 46-50.	1.4	10
13	Composition, Response to Pressure, and Negative Thermal Expansion in M^{II}B^{IV}F₆ (M = Ca, Mg; B = Zr, Nb). Chemistry of Materials, 2017, 29, 823-831.	3.2	36
14	Synthesis of Defect Perovskites (He_{2â€“x}â–¡_x)(CaZr)F₆ by Inserting Helium into the Negative Thermal Expansion Material CaZrF₆. Journal of the American Chemical Society, 2017, 139, 13284-13287.	6.6	18
15	The heat capacities of thermomiotic ScF3 and ScF3â€“YF3 solid solutions. Journal of Materials Science, 2015, 50, 3409-3415.	1.7	24
16	Large Negative Thermal Expansion and Anomalous Behavior on Compression in Cubic ReO₃-Type A^{II}B^{IV}F₆: CaZrF₆ and CaHfF₆. Chemistry of Materials, 2015, 27, 3912-3918.	3.2	86
17	Visible-to-UVC upconversion efficiency and mechanisms of Lu7O6F9:Pr3+ and Y2SiO5:Pr3+ ceramics. Journal of Luminescence, 2015, 160, 202-209.	1.5	38
18	Solid solubility, phase transitions, thermal expansion, and compressibility in Sc1âˆ’Al F3. Journal of Solid State Chemistry, 2015, 222, 96-102.	1.4	54

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19	Dramatic softening of the negative thermal expansion material HfW2O8 upon heating through its WO4 orientational order-disorder phase transition. Journal of Applied Physics, 2014, 115, 053512.	1.1	21
20	History-dependent thermal expansion in NbO2F. Journal of Solid State Chemistry, 2014, 213, 38-42.	1.4	15
21	Evolution of Negative Thermal Expansion and Phase Transitions in Sc_{1-x}Ti_xF₃. Chemistry of Materials, 2014, 26, 1936-1940.	3.2	67
22	Thermal expansion and phase transitions of Î±-AlF3. Journal of Solid State Chemistry, 2014, 219, 143-147.	1.4	17
23	Role of Anion Site Disorder in the Near Zero Thermal Expansion of Tantalum Oxyfluoride. Chemistry of Materials, 2013, 25, 1900-1904.	3.2	31
24	Orientational order-dependent thermal expansion and compressibility of ZrW2O8 and ZrMo2O8. Physical Chemistry Chemical Physics, 2013, 15, 19665.	1.3	22
25	Negative thermal expansion and compressibility of Sc1â€“xYxF3â€²(xâ‰0.25). Journal of Applied Physics, 2013, 114, .	1.1	68
26	A cautionary tale on the use of GE-7031 varnish: low-temperature thermal expansion studies of ScF₃. Journal of Applied Crystallography, 2013, 46, 823-825.	1.9	18
27	Pressure induced amorphization of ZrMo2O8 and its relaxation on decompression as seen by in situ total x-ray scattering. Journal of Applied Physics, 2012, 112, 023511.	1.1	7
28	Delineating Mechanisms of Upconversion Enhancement by Li⁺ Codoping in Y₂SiO₅:Pr³⁺. Journal of Physical Chemistry C, 2012, 116, 12772-12778.	1.5	66
29	The effect of pressure on tricalcium silicate hydration at different temperatures and in the presence of retarding additives. Cement and Concrete Research, 2012, 42, 1083-1087.	4.6	20
30	Simultaneous study of mechanical property development and early hydration chemistry in Portland cement slurries using X-ray diffraction and ultrasound reflection. Cement and Concrete Research, 2012, 42, 1166-1173.	4.6	14
31	Oil-Well Cement and C3S Hydration Under High Pressure as Seen by In Situ X-Ray Diffraction, Temperatures â‰80Â°C with No Additives. Journal of the American Ceramic Society, 2011, 94, 1591-1597.	1.9	18
32	Reducing the background from pressure vessels using a BRIM. Journal of Applied Crystallography, 2011, 44, 1047-1053.	1.9	12
33	Optimizing high-pressure pair distribution function measurements in diamond anvil cells. Journal of Applied Crystallography, 2010, 43, 297-307.	1.9	32
34	Pronounced Negative Thermal Expansion from a Simple Structure: Cubic ScF₃. Journal of the American Chemical Society, 2010, 132, 15496-15498.	6.6	389
35	Structural changes accompanying negative thermal expansion in Zr2(MoO4)(PO4)2. Journal of Solid State Chemistry, 2009, 182, 1304-1311.	1.4	23
36	Pressure dependence of negative thermal expansion in Zr2(WO4)(PO4)2. Solid State Communications, 2009, 149, 421-424.	0.9	26

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37	Coordination change upon the pressure-induced amorphization of cubic<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>ZrW</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>	1.1	13
38	In situ high-pressure synchrotron x-ray diffraction study of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>ZrMo</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>		

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55	High pressure synchrotron x-ray powder diffraction study of Sc2Mo3O12and Al2W3O12. Journal of Physics Condensed Matter, 2005, 17, 4271-4283.	0.7	45
56	In situhigh-pressure synchrotron x-ray diffraction study ofSc2W3O12at up to 10 GPa. Physical Review B, 2005, 71, .	1.1	28
57	Pressure-induced amorphization of cubicZrW2O8studiedin situandex situby synchrotron x-ray diffraction and absorption. Physical Review B, 2005, 72, .	1.1	40
58	Class H Oil Well Cement Hydration at Elevated Temperatures in the Presence of Retarding Agents:â€‰ An In Situ High-Energy X-ray Diffraction Study. Industrial & Engineering Chemistry Research, 2005, 44, 5579-5584.	1.8	25
59	Negative thermal expansion in cubicZrMo2O8: Inelastic neutron scattering and lattice dynamical studies. Physical Review B, 2004, 70, .	1.1	41
60	Anhydrous sodium naproxen. Acta Crystallographica Section E: Structure Reports Online, 2004, 60, m419-m420.	0.2	9
61	Phase composition depth profiles using spatially resolved energy dispersive X-ray diffraction. Journal of Applied Crystallography, 2004, 37, 967-976.	1.9	11
62	Sulfate deterioration of cement-based materials examined by x-ray microtomography. , 2004, , .		3
63	Heat capacities, third-law entropies and thermodynamic functions of the negative thermal expansion materials, cubic Î±-ZrW2O8 and cubic ZrMo2O8, from K. Journal of Chemical Thermodynamics, 2003, 35, 919-937.	1.0	35
64	Continuous hydrothermal synthesis of CoFe2O4 nanoparticles. Fluid Phase Equilibria, 2003, 210, 307-317.	1.4	121
65	Strategies for solving neighboring-element problems: a case study using resonant X-ray diffraction and pulsed neutron diffraction to examine Sr8Ga16Ge30. Journal of Applied Crystallography, 2003, 36, 1182-1189.	1.9	17
66	Fluorinert as a pressure-transmitting medium for high-pressure diffraction studies. Review of Scientific Instruments, 2003, 74, 4564-4566.	0.6	42
67	Gallium distribution in the clathrates Sr8Ga16Ge30 and Sr4Eu4Ga16Ge30 by resonant diffraction. Applied Physics Letters, 2002, 80, 2931-2933.	1.5	58
68	Temperature dependent structural and transport properties of the type II clathrates A8Na16E136 (A=Cs) Tj ETQq0 0 0 rgBT /Overlock 10	1.1	80
69	Preparation, Transport Properties, and Structure Analysis by Resonant X-ray Scattering of the Type I Clathrate Cs8Cd4Sn42. Chemistry of Materials, 2002, 14, 1300-1305.	3.2	53
70	Kinetics of the cubic to trigonal transformation in ZrMo2O8 and their dependence on precursor chemistry. Journal of Materials Chemistry, 2002, 12, 990-994.	6.7	20
71	Continuous hydrothermal synthesis and crystallization of magnetic oxide nanoparticles. Journal of Materials Research, 2002, 17, 2410-2416.	1.2	78
72	Future directions in solid state chemistry: report of the NSF-sponsored workshop. Progress in Solid State Chemistry, 2002, 30, 1-101.	3.9	24

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73	First-Year Undergraduate Laboratory Experiments with Zeolites. The Chemical Educator, 2002, 7, 33-36.	0.0	6
74	Dichlorobis[1,3-dimethyl-2(3H)-imidazoleselone]zinc(II): a potential zinc selenide synthon. Inorganic Chemistry Communication, 2002, 5, 124-126.	1.8	32
75	Seeding and the Non-Hydrolytic Sol-Gel Synthesis of ZrW2O8 and ZrMo2O8. Journal of Sol-Gel Science and Technology, 2002, 25, 51-56.	1.1	27
76	Preparation of the negative thermal expansion material cubic ZrMo2O8. Journal of Materials Chemistry, 2001, 11, 3354-3359.	6.7	65
77	Manipulating and Quantifying the Compositional Heterogeneity in Solâ˜Gel Processed K(Ta1-xNbx)O3. Chemistry of Materials, 2001, 13, 1185-1193.	3.2	6
78	New High-Pressure Form of the Negative Thermal Expansion Materials Zirconium Molybdate and Hafnium Molybdate. Chemistry of Materials, 2001, 13, 487-490.	3.2	69
79	Mapping the Distribution of Corrosion Products in Cement Exposed to Sulfate using Energy Dispersive X-ray Diffraction. Materials Research Society Symposia Proceedings, 2001, 678, 531.	0.1	1
80	DISORDER IN CLATHRATE THERMOELECTRICS. , 2001, , .		0
81	Solution Processing of Calcium Zirconate Titanates, Ca(ZrxTi1-x)O3:Â An X-ray Absorption Spectroscopy and Powder Diffraction Study. Chemistry of Materials, 2000, 12, 3321-3330.	3.2	30
82	Effects of Cationic Charge on Three-Dimensional Structures of Intercalative Complexes Structure of a bis-Intercalated DNA Complex Solved by MAD Phasing. Current Medicinal Chemistry, 2000, 7, 59-71.	1.2	40
83	Mâ˜F Interatomic Distances and Effective Volumes of Second and Third Transition Series MF6-and MF62-Anions. Inorganic Chemistry, 2000, 39, 2794-2800.	1.9	44
84	Structural Features of Ag[AuF4] and Ag[AuF6] and the Stuctural Relationship of Ag[AgF4]2and Au[AuF4]2to Ag[AuF4]2. Inorganic Chemistry, 2000, 39, 1545-1548.	1.9	31
85	Crystal Structures of Molecular Gold Nanocrystal Arrays. Accounts of Chemical Research, 1999, 32, 397-406.	7.6	570
86	A New Polymorph of ZrW2O8 Prepared Using Nonhydrolytic Solâ˜Gel Chemistry. Chemistry of Materials, 1999, 11, 101-108.	3.2	53
87	Chiral Chelate Complexes as Templates for Inorganic Materials. ACS Symposium Series, 1999, , 39-52.	0.5	3
88	Synthesis and Properties of the Negative Thermal Expansion Material Cubic ZrMo2O8. Chemistry of Materials, 1998, 10, 2335-2337.	3.2	177
89	Synthesis and characterization of NH4(Al0.64Ga0.36)(HPO4)2; a three dimensional anionic tunnel structure with charge balancing NH4+. Journal of Materials Chemistry, 1998, 8, 261-263.	6.7	7
90	The Synthesis and Characterization of an Aluminophosphate with Chiral Layers;trans-Co(dien)2Â·Al3P4O16Â·3H2O. Journal of Solid State Chemistry, 1996, 125, 228-233.	1.4	114

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91	Probing Local Electronic Anisotropy Using Anomalous Scattering Diffraction: Cs2[AuCl2][AuCl4]. Journal of Solid State Chemistry, 1995, 118, 383-388.	1.4	9
92	The synthesis and structure of a chiral layered aluminophosphate containing the template Co(tn)3 3+. Journal of the Chemical Society Chemical Communications, 1995, , 2059.	2.0	89
93	In situ x-ray diffraction study of crystallization kinetics in PbZr1-xTixO3, (PZT, x = 0.0, 0.55, 1.0). Chemistry of Materials, 1994, 6, 750-754.	3.2	138
94	A novel mixed-valence selenium(IV)/selenium(VI) oxo compound: crystal structure determination and x-ray absorption near edge structure study of erbium selenite(IV) selenate(VI) hydrate, Er(SeO3)(SeO4)1/2.cntdot.H2O. Inorganic Chemistry, 1992, 31, 4774-4777.	1.9	31
95	Cation distribution in zeolite zinc/sodium-Y by resonant X-ray diffraction. Journal of the Chemical Society Chemical Communications, 1992, , 1485.	2.0	54
96	Preparation and structure of ruthenium tetrafluoride and a structural comparison with ruthenium trifluoride and ruthenium pentafluoride. Inorganic Chemistry, 1992, 31, 3124-3131.	1.9	39
97	Determination of complex structures by combined neutron and synchrotron X-ray powder diffraction. Nature, 1992, 359, 519-522.	13.7	62
98	Silver trifluoride: preparation, crystal structure, some properties, and comparison with AuF3. Journal of the American Chemical Society, 1991, 113, 4192-4198.	6.6	99
99	Recovery of MOF-5 from Extreme High-Pressure Conditions Facilitated by a Modern Pressure Transmitting Medium. Chemistry of Materials, 0, , .	3.2	6