Michael J Pitcher

List of Publications by Year
in descending order

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52 papers	2,479 citations	249298 26 h-index	223390 49 g-index
56 all docs	56 docs citations	56 times ranked	4181 citing authors

#	Article	IF	Citations
1	Synthesis routes for enhanced piezoelectric properties in spark plasma sintered Ta-doped KNN ceramics. Journal of the European Ceramic Society, 2022, 42, 2188-2194.	2.8	9
2	Glass formation and devitrification behavior of alkali (Li, Na) aluminosilicate melts containing TiO2. Journal of Non-Crystalline Solids, 2022, 582, 121448.	1.5	7
3	Enhanced Longâ€Term Cathode Stability by Tuning Interfacial Nanocomposite for Intermediate Temperature Solid Oxide Fuel Cells. Advanced Materials Interfaces, 2022, 9, .	1.9	3
4	Stabilization of the Trigonal Langasite Structure in Ca₃Ga_{2â€“2x}Zn_xGe_{4+x}O₁₄ (0 â‰¤ x â‰¤ 1) with Partial Ordering of Three Isoelectronic Cations Characterized by a Multitechnique Approach. Inorganic Chemistry, 2022, 61, 9339-9351.	1.9	2
5	Sodium Site Exchange and Migration in a Polar Stuffed-Cristobalite Framework Structure. Inorganic Chemistry, 2021, 60, 4322-4331.	1.9	2
6	Highly Absorbing Lead-Free Semiconductor Cu₂AgBiI₆ for Photovoltaic Applications from the Quaternary Culâ€“Aglâ€“BiI₃ Phase Space. Journal of the American Chemical Society, 2021, 143, 3983-3992.	6.6	59
7	Macroscopic Orientation Domains Grown via Aerodynamic Levitation: A Path toward Single Crystals. Crystal Growth and Design, 2021, 21, 3554-3561.	1.4	2
8	Discovery of a Low Thermal Conductivity Oxide Guided by Probe Structure Prediction and Machine Learning. Angewandte Chemie - International Edition, 2021, 60, 16457-16465.	7.2	13
9	Discovery of a Low Thermal Conductivity Oxide Guided by Probe Structure Prediction and Machine Learning. Angewandte Chemie, 2021, 133, 16593-16601.	1.6	0
10	Emergence of A-Site Cation Order in the Small Rare-Earth Melilites SrREGa₃O₇ (RE = Dyâ€“Lu, Y). Inorganic Chemistry, 2021, 60, 12339-12354.	1.9	6
11	Chemical Control of the Dimensionality of the Octahedral Network of Solar Absorbers from the Culâ€“Aglâ€“BiI₃ Phase Space by Synthesis of 3D CuAgBiI₅. Inorganic Chemistry, 2021, 60, 18154-18167.	1.9	15
12	A CO₂â€Tolerant Perovskite Oxide with High Oxide Ion and Electronic Conductivity. Advanced Materials, 2020, 32, e1905200.	11.1	39
13	La₂Ga₃O_{7.5}: A Metastable Ternary Melilite with a Super-Excess of Interstitial Oxide Ions Synthesized by Direct Crystallization of the Melt. Chemistry of Materials, 2020, 32, 9016-9025.	3.2	18
14	Interstitial Oxide Ion Conductivity in the Langasite Structure: Carrier Trapping by Formation of (Ga,Ge)₂O₈ Units in La₃Ga_{5â€“x}Ge_{1+x}O_{14+x/2} (0 <) Tj ETQq0 0 0 rgBT /Overloc	3.2	9
15	Stabilization of Oâ€“O Bonds by d⁰ Cations in Li_{4+x}Ni_{1â€“x}WO₆ (0 â‰¤ x â‰¤ 0.25) Rock Salt Oxides as the Origin of Large Voltage Hysteresis. Journal of the American Chemical Society, 2019, 141, 7333-7346.	6.6	61
16	Layered CeSO and LiCeSO Oxide Chalcogenides Obtained via Topotactic Oxidative and Reductive Transformations. Inorganic Chemistry, 2019, 58, 3838-3850.	1.9	8
17	Reactivity of Solid Rubrene with Potassium: Competition between Intercalation and Molecular Decomposition. Journal of the American Chemical Society, 2018, 140, 18162-18172.	6.6	12
18	Bi_{2+2n}O_{2+2n}Cu_{2â‹…Î´}Se_{2+n}â€“Î´X_{Î´} (X = Cl, Br): A Three-Anion Homologous Series. Inorganic Chemistry, 2018, 57, 12489-12500.	1.9	15

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19	Lithium Transport in Li4.4M0.4Mâ€²0.6S4 (M = Al3+, Ga3+, and Mâ€² = Ge4+, Sn4+): Combined Crystallographic, Conductivity, Solid State NMR, and Computational Studies. Chemistry of Materials, 2018, 30, 7183-7200.	3.2	28
20	Computational Prediction and Experimental Realization of p-Type Carriers in the Wide-Band-Gap Oxide SrZn_{1â€“x}Li_xO₂. Inorganic Chemistry, 2018, 57, 11874-11883.	1.9	6
21	A and B site doping of a phonon-glass perovskite oxide thermoelectric. Journal of Materials Chemistry A, 2018, 6, 15640-15652.	5.2	17
22	Structure determination and crystal chemistry of large repeat mixed-layer hexaferrites. IUCrJ, 2018, 5, 681-698.	1.0	14
23	AgBiI₄ as a Lead-Free Solar Absorber with Potential Application in Photovoltaics. Chemistry of Materials, 2017, 29, 1538-1549.	3.2	102
24	Redox-controlled potassium intercalation into two polyaromatic hydrocarbon solids. Nature Chemistry, 2017, 9, 644-652.	6.6	32
25	Accelerated discovery of two crystal structure types in a complex inorganic phase field. Nature, 2017, 546, 280-284.	13.7	61
26	Room Temperature Magnetically Ordered Polar Corundum GaFeO₃ Displaying Magnetoelectric Coupling. Journal of the American Chemical Society, 2017, 139, 1520-1531.	6.6	34
27	Stable and ordered amide frameworks synthesised under reversible conditions which facilitate error checking. Nature Communications, 2017, 8, 1102.	5.8	126
28	Bi₄O₄Cu_{1.7}Se_{2.7}Cl_{0.3}: Intergrowth of BiOCuSe and Bi₂O₂Se Stabilized by the Addition of a Third Anion. Journal of the American Chemical Society, 2017, 139, 15568-15571.	6.6	17
29	Phonon-glass electron-crystal behaviour by A site disorder in n-type thermoelectric oxides. Energy and Environmental Science, 2017, 10, 1917-1922.	15.6	52
30	Controlling Phase Assemblage in a Complex Multiâ€Cation System: Phaseâ€Pure Room Temperature Multiferroic (1â^'x)BiTi_{(1â^'}_y_{)/2}Fe_yMg_{(1â^'}_y< Advanced Functional Materials, 2016, 26, 2523-2531.	7.8	17
31	La₃Li₃W₂O₁₂: Ionic Diffusion in a Perovskite with Lithium on both A- and B-Sites. Chemistry of Materials, 2016, 28, 7833-7851.	3.2	27
32	Computational Identification and Experimental Realization of Lithium Vacancy Introduction into the Olivine LiMgPO₄. Chemistry of Materials, 2015, 27, 2074-2091.	3.2	33
33	Tilt engineering of spontaneous polarization and magnetization above 300 K in a bulk layered perovskite. Science, 2015, 347, 420-424.	6.0	181
34	Morphotropic Phase Boundary in the Pbâ€Free (1 â^') Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 152 Td (x)BiTi_{3/8}Fe<sub System: Tetragonal Polarization and Enhanced Electromechanical Properties. Advanced Materials, 2015, 27, 2883-2889.	11.1	31
35	Designing switchable polarization and magnetization at room temperature in an oxide. Nature, 2015, 525, 363-366.	13.7	122
36	Control of Co content and SOFC cathode performance in Y 1â^'y Sr 2+y Cu 3â^'x Co x O 7+Î´. Solid State Sciences, 2014, 37, 23-32.	1.5	5

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37	Magnetic fluctuations and spin freezing in nonsuperconducting LiFeAs derivatives. Physical Review B, 2013, 88, .	1.1	15
38	AC magnetic measurement of LiFeAs at pressures up to 5.2 GPa: The relation between T c and the structural parameters. Journal of the Korean Physical Society, 2013, 63, 445-447.	0.3	3
39	Gradual destruction of magnetism in the superconducting family NaFe<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>1</mml:mn><mml:mo>â^'</mml:mo><mml:mi>x</mml:mi></mml:mrow></mml:msub></mml:math>Co<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mi>x</mml:mi></mml:mrow></mml:msub></mml:math>As. Physical Review B, 2013, 85, .	1.1	44
40	Antiferromagnetic spin fluctuations in LiFeAs observed by neutron scattering. Physical Review B, 2011, 83, .	1.1	85
41	Control of the Competition between a Magnetic Phase and a Superconducting Phase in Cobalt-Doped and Nickel-Doped NaFeAs Using Electron Count. Physical Review Letters, 2010, 104, 057007.	2.9	111
42	Compositional Control of the Superconducting Properties of LiFeAs. Journal of the American Chemical Society, 2010, 132, 10467-10476.	6.6	64
43	Indifference of Superconductivity and Magnetism to Size-Mismatched Cations in the Layered Iron Arsenides Ba_{1â^'x}Na_xFe₂As₂. Chemistry of Materials, 2010, 22, 4304-4311.	3.2	36
44	Enhanced superfluid stiffness, lowered superconducting transition temperature, and field-induced magnetic state of the pnictide superconductor LiFeAs. Physical Review B, 2009, 79, .	1.1	44
45	Structure, antiferromagnetism and superconductivity of the layered iron arsenide NaFeAs. Chemical Communications, 2009, , 2189.	2.2	201
46	Response of Superconductivity and Crystal Structure of LiFeAs to Hydrostatic Pressure. Journal of the American Chemical Society, 2009, 131, 2986-2992.	6.6	49
47	Heat capacity measurements on FeAs-based compounds: a thermodynamic probe of electronic and magnetic states. New Journal of Physics, 2009, 11, 025010.	1.2	39
48	Stoichiometric CeCuOS â^' A Well-Behaved Ce(III) Layered Oxysulfide. Inorganic Chemistry, 2009, 48, 9054-9056.	1.9	18
49	Structure and superconductivity of LiFeAs. Chemical Communications, 2008, , 5918.	2.2	278
50	Structures, Physical Properties, and Chemistry of Layered Oxychalcogenides and Oxypnictides. Inorganic Chemistry, 2008, 47, 8473-8486.	1.9	182
51	High-energy spin excitations in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>BaFe</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>As<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:math> by inelastic neutron scattering. Physical Review B, 2008, 78, .	1.1	113
52	Characteristic muon precession and relaxation signals in FeAs and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>FeAs</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> Possible impurity phases in pnictide superconductors. Physical Review B, 2008, 78, .	1.1	10