

Jennifer A Aitken

List of Publications by Year in descending order

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72
papers

2,198
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236612

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233125

45
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94
all docs

94
docs citations

94
times ranked

1568
citing authors

#	ARTICLE	IF	CITATIONS
1	Single Crystal Structure of Terfenadine Form I. <i>Journal of Chemical Crystallography</i> , 2022, 52, 81-88.	0.5	3
2	Building-block approach to the discovery of Na ₈ Mn ₂ (Ge ₂ Se ₆) ₂ : A polar chalcogenide exhibiting promising harmonic generation signals with a high laser-induced damage threshold. <i>Journal of Alloys and Compounds</i> , 2022, 900, 163392.	2.8	5
3	Homovalent cation substitutions leading to new lithium-containing La ₃ CuSiS ₇ family members having chiral, uniaxial structures and exhibiting second- and third-harmonic generation. <i>Journal of Alloys and Compounds</i> , 2022, 910, 164855.	2.8	2
4	The Kurtz-Perry powder technique revisited: A case study on the importance of reference quality and broadband nonlinear optical measurements using LiInSe ₂ . <i>Journal of Alloys and Compounds</i> , 2022, 917, 165381.	2.8	12
5	Li ₂ Mg ₂ Si ₂ S ₆ and Li ₂ Mg ₂ Ge ₂ S ₆ : Two nonlinear optical sulfides featuring a unique, polar trigonal structure incorporating ethane-like anions. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2022, 648, .	0.6	4
6	Synthesis, structure, linear and nonlinear optical properties of noncentrosymmetric quaternary diamond-like semiconductors, Cu ₂ ZnGeSe ₄ (CZGSe) and the novel Cu ₄ ZnGe ₂ Se ₇ . <i>Journal of Alloys and Compounds</i> , 2021, 888, 161499.	2.8	13
7	Synthesis, crystal structure, and electronic structure of Li ₂ PbSi ₄ : a quaternary thiosilicate with a compressed chalcopyrite-like structure. <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2021, 77, 1-10.	0.2	3
8	Cu ₄ MnGe ₂ S ₇ and Cu ₂ MnGeS ₄ : two polar thiogermanates exhibiting second harmonic generation in the infrared and structures derived from hexagonal diamond. <i>Dalton Transactions</i> , 2021, 50, 17524-17537.	1.6	9
9	Phase Matching, Strong Frequency Doubling, and Outstanding Laser-Induced Damage Threshold in the Biaxial, Quaternary Diamond-like Semiconductor Li ₄ CdSn ₂ S ₇ . <i>Chemistry of Materials</i> , 2020, 32, 10045-10054.	3.2	51
10	Low-temperature synthesis of micro- and nano-crystalline CuFeS ₂ polymorphs. <i>SN Applied Sciences</i> , 2020, 2, 1.	1.5	3
11	Li ₂ ZnGeS ₄ : A Wide-Bandgap Diamond-like Semiconductor with Excellent Balance between Laser-Induced Damage Threshold and Second Harmonic Generation Response. <i>Chemistry of Materials</i> , 2020, 32, 8947-8955.	3.2	112
12	Syntheses and crystal structures of the quaternary thiogermanates Cu ₄ FeGe ₂ S ₇ and Cu ₄ CoGe ₂ S ₇ . <i>Acta Crystallographica Section E: Crystallographic Communications</i> , 2020, 76, 1117-1121.	0.2	3
13	Insights on the Synthesis, Crystal and Electronic Structures, and Optical and Thermoelectric Properties of Sr _{1-x} Sb _x HfSe ₃ Orthorhombic Perovskite. <i>Inorganic Chemistry</i> , 2018, 57, 7402-7411.	1.9	20
14	Tuning the optical, electronic and thermal properties of Cu ₃ NbS _{4-x} Se _x through chemical substitution. <i>Inorganic Chemistry Frontiers</i> , 2017, 4, 1493-1500.	3.0	19
15	Mercouri G. Kanatzidis. Thirty years of contributions to materials and inorganic chemistry. <i>Inorganic Chemistry Frontiers</i> , 2017, 4, 1098-1099.	3.0	1
16	Li ₂ CdGeSe ₄ and Li ₂ CdSnSe ₄ : biaxial nonlinear optical materials with strong infrared second-order responses and laser-induced damage thresholds influenced by photoluminescence. <i>Inorganic Chemistry Frontiers</i> , 2017, 4, 1472-1484.	3.0	38
17	Correction: Infrared nonlinear optical properties of lithium-containing diamond-like semiconductors Li ₂ ZnGeSe ₄ and Li ₂ ZnSnSe ₄ . <i>Dalton Transactions</i> , 2017, 46, 10102-10104.	1.6	8
18	Phase identification and structure investigation of novel quaternary rare-earth substituted titanates. <i>Journal of Solid State Chemistry</i> , 2017, 256, 19-26.	1.4	4

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19	Structural Characterization of Two New Quaternary Chalcogenides: CuCo ₂ InTe ₄ and CuNi ₂ InTe ₄ . <i>Materials Research</i> , 2016, 19, 1423-1428.	0.6	12
20	Infrared nonlinear optical properties of lithium-containing diamond-like semiconductors Li ₂ ZnGeSe ₄ and Li ₂ ZnSnSe ₄ . <i>Dalton Transactions</i> , 2015, 44, 11212-11222.	1.6	51
21	Role of mechanochemical milling in FeVO ₄ synthesis. <i>Journal of Magnetism and Magnetic Materials</i> , 2015, 387, 37-45.	1.0	4
22	Outstanding Laser Damage Threshold in Li ₂ MnGeS ₄ and Tunable Optical Nonlinearity in Diamond-Like Semiconductors. <i>Inorganic Chemistry</i> , 2015, 54, 2809-2819.	1.9	103
23	A new class of lithium ion conductors with tunable structures and compositions: Quaternary diamond-like thio germanates. <i>Solid State Ionics</i> , 2015, 278, 268-274.	1.3	11
24	Polymorphism and second harmonic generation in a novel diamond-like semiconductor: Li ₂ MnSnS ₄ . <i>Journal of Solid State Chemistry</i> , 2015, 231, 256-266.	1.4	26
25	An Inquiry-Based Project Focused on the X-ray Powder Diffraction Analysis of Common Household Solids. <i>Journal of Chemical Education</i> , 2015, 92, 2152-2156.	1.1	5
26	Fast Lithium Ion Conduction in Li ₂ SnS ₃ : Synthesis, Physicochemical Characterization, and Electronic Structure. <i>Chemistry of Materials</i> , 2015, 27, 189-196.	3.2	85
27	Synthesis, structure, physicochemical characterization and electronic structure of thio-lithium super ionic conductors, Li ₄ GeS ₄ and Li ₄ SnS ₄ . <i>Journal of Alloys and Compounds</i> , 2014, 586, 736-744.	2.8	27
28	Three series of quaternary rare-earth transition-metal pnictides with CaAl ₂ Si ₂ -type structures: RECuZnAs ₂ , REAgZnP ₂ , and REAgZnAs ₂ . <i>Journal of Solid State Chemistry</i> , 2014, 213, 275-286.	1.4	9
29	Field-Induced Spin-Flop in Antiferromagnetic Semiconductors with Commensurate and Incommensurate Magnetic Structures: Li ₂ FeGeS ₄ (LIGS) and Li ₂ FeSnS ₄ (LITS). <i>Inorganic Chemistry</i> , 2014, 53, 12265-12274.	1.9	24
30	Li ₂ CdGeS ₄ , A Diamond-Like Semiconductor with Strong Second-Order Optical Nonlinearity in the Infrared and Exceptional Laser Damage Threshold. <i>Chemistry of Materials</i> , 2014, 26, 3045-3048.	3.2	175
31	Optical Nonlinearity in Cu ₂ CdSnS ₄ and \hat{I}_{\pm}/\hat{I}^2 -Cu ₂ ZnSiS ₄ : Diamond-like Semiconductors with High Laser-Damage Thresholds. <i>Inorganic Chemistry</i> , 2014, 53, 7809-7811.	1.9	75
32	Structure-property relationships along the Fe-substituted CuInS ₂ series: Tuning of thermoelectric and magnetic properties. <i>Materials Chemistry and Physics</i> , 2014, 147, 17-27.	2.0	25
33	Location and oxidation state of iron in Fe-substituted CuInS ₂ chalcopyrites. <i>Journal of Solid State Chemistry</i> , 2013, 197, 279-287.	1.4	11
34	Synthesis and properties of V ₂ O ₃ Fe ₂ O ₃ magnetic ceramic nanostructures. <i>Ceramics International</i> , 2013, 39, 8441-8451.	2.3	8
35	The impact of three new quaternary sulfides on the current predictive tools for structure and composition of diamond-like materials. <i>Journal of Alloys and Compounds</i> , 2013, 574, 495-503.	2.8	32
36	Suppression of antiferromagnetic interactions through Cu vacancies in Mn-substituted CuInSe ₂ chalcopyrites. <i>Journal of Physics Condensed Matter</i> , 2012, 24, 086006.	0.7	9

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37	Mn incorporation in CuInS ₂ chalcopyrites: Structure, magnetism and optical properties. <i>Materials Chemistry and Physics</i> , 2012, 136, 415-423.	2.0	16
38	The crystal and electronic band structure of the diamond-like semiconductor Ag ₂ ZnSiS ₄ . <i>Journal of Alloys and Compounds</i> , 2012, 516, 65-72.	2.8	43
39	Synchrotron X-ray Powder Diffraction and Electronic Band Structure of $\text{Cu}_2\text{ZnSiS}_4$. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2012, 638, 2578-2584.	0.6	19
40	Cation ordering and physicochemical characterization of the quaternary diamond-like semiconductor Ag ₂ CdGeS ₄ . <i>Journal of Solid State Chemistry</i> , 2012, 187, 177-185.	1.4	43
41	Investigation of LaFeO ₃ perovskite growth mechanism through mechanical ball milling of lanthanum and iron oxides. <i>Journal of Materials Science</i> , 2011, 46, 6709-6717.	1.7	33
42	Thermoelectric properties of CuInSe_2 -type $\text{CuInSe}_{2-x}\text{Mn}_x$ chalcopyrites enhanced by introduction of manganese. <i>Physical Review B</i> , 2011, 84, .	1.1	57
43	$\text{Cu}_2\text{ZnSiS}_4$. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2011, 67, i28-i28.	0.2	16
44	Bis[2,2-(2-aminoethylimino)di(ethylammonium)] di- $\frac{1}{4}$ -sulfido-bis[disulfidostannate(IV)]. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2011, 67, m1516-m1517.	0.2	5
45	Site Preference of Manganese on the Copper Site in Mn-Substituted CuInSe_2 Chalcopyrites Revealed by a Combined Neutron and X-ray Powder Diffraction Study. <i>Chemistry of Materials</i> , 2010, 22, 1647-1655.	3.2	25
46	Synthesis, structure and physicochemical characterization of a noncentrosymmetric, quaternary thioannate: $\text{EuCu}_2\text{SnS}_4$. <i>Journal of Solid State Chemistry</i> , 2009, 182, 141-146.	1.4	23
47	Effects of Mn substitution on the structure and properties of chalcopyrite-type CuInSe_2 . <i>Journal of Solid State Chemistry</i> , 2009, 182, 2579-2586.	1.4	27
48	Second-Harmonic Generation and Crystal Structure of the Diamond-like Semiconductors $\text{Li}_2\text{CdGeS}_4$ and $\text{Li}_2\text{CdSnS}_4$. <i>Inorganic Chemistry</i> , 2009, 48, 7516-7518.	1.9	211
49	A simple aqueous metathesis reaction yields new lanthanide monothiophosphates. <i>Journal of Solid State Chemistry</i> , 2008, 181, 3044-3050.	1.4	3
50	Synthesis, physicochemical characterization and crystallographic twinning of $\text{Li}_2\text{ZnSnS}_4$. <i>Journal of Solid State Chemistry</i> , 2008, 181, 3217-3222.	1.4	85
51	Alkenenitriles: Conjugate Additions of Alkyl Iodides with a Silica-Supported Zinc-Copper Matrix in Water. <i>Journal of Organic Chemistry</i> , 2007, 72, 6961-6969.	1.7	22
52	Phase Segregation of MnP in Chalcopyrite Dilute Magnetic Semiconductors: A Cautionary Tale. <i>Chemistry of Materials</i> , 2007, 19, 5272-5278.	3.2	26
53	Microwave Metallurgy: Synthesis of Intermetallic Compounds via Microwave Irradiation. <i>Chemistry of Materials</i> , 2007, 19, 3601-3603.	3.2	63
54	An in situ time-of-flight neutron powder diffraction study of the humidity-induced phase transition in sodium monothiophosphate. <i>Journal of Solid State Chemistry</i> , 2007, 180, 2034-2043.	1.4	6

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55	Rapid solid-state synthesis of binary group 15 chalcogenides using microwave irradiation. <i>Journal of Solid State Chemistry</i> , 2007, 180, 3262-3270.	1.4	51
56	Understanding solid-state microwave synthesis using the diamond-like semiconductor, AgInSe ₂ , as a case study. <i>Materials Research Bulletin</i> , 2007, 42, 395-403.	2.7	30
57	Phase Transitions and Second-Harmonic Generation in Sodium Monothiophosphate. <i>Inorganic Chemistry</i> , 2006, 45, 2779-2781.	1.9	20
58	Noncentrosymmetric cubic thio- and selenogermanates: A _{0.5} M _{1.75} GeQ ₄ (A=Ag, Cu, Na; M=Pb, Eu; Q=S,) <i>Tj ETQq 0 0 rgBT /Overlock 1</i>	1.5	32
59	Noncentrosymmetric Cubic Thio- and Selenogermanates: A _{0.5} M _{1.75} GeQ ₄ (A: Ag, Cu, Na; M: Pb, Eu; Q: S,) <i>Tj ETQq 1 1 0.784314 rgBT C</i>	0.1	0
60	Interwoven Pair of Open Frameworks in the Thiophosphate K ₆ Yb ₃ (PS ₄) ₅ . <i>ChemInform</i> , 2004, 35, no.	0.1	0
61	Interwoven Pair of Open Frameworks in the Thiophosphate K ₆ Yb ₃ (PS ₄) ₅ . <i>Journal of the American Chemical Society</i> , 2004, 126, 11780-11781.	6.6	49
62	Toward an Arsenic Analogue of Hittorf's Phosphorus: Mixed Pnicogen Chains in Cu ₂ P _{1.8} As _{1.2} I ₂ . <i>ChemInform</i> , 2003, 34, no.	0.1	0
63	Toward an Arsenic Analogue of Hittorf's Phosphorus: Mixed Pnicogen Chains in Cu ₂ P _{1.8} As _{1.2} I ₂ . <i>Inorganic Chemistry</i> , 2003, 42, 658-660.	1.9	11
64	NaCeP ₂ Se ₆ , Cu _{0.4} Ce _{1.2} P ₂ Se ₆ , Ce ₄ (P ₂ Se ₆) ₃ , and the Incommensurately Modulated AgCeP ₂ Se ₆ : A New Selenophosphates Featuring the Ethane-Like [P ₂ Se ₆] ⁴⁻ Anion. <i>Inorganic Chemistry</i> , 2002, 41, 180-191.	1.9	24
65	Li ₂ PbGeS ₄ and Li ₂ EuGeS ₄ : Polar Chalcopyrites with a Severe Tetragonal Compression. <i>Chemistry of Materials</i> , 2001, 13, 4714-4721.	3.2	64
66	±-Na ₆ Pb ₃ (PS ₄) ₄ , a Noncentrosymmetric Thiophosphate with the Novel, Saucer-Shaped [Pb ₃ (PS ₄) ₄] ⁶⁻ Cluster, and Its Metastable, 3-Dimensionally Polymerized Allotrope ±-Na ₆ Pb ₃ (PS ₄) ₄ . <i>Inorganic Chemistry</i> , 2001, 40, 2938-2939.	1.9	15
67	[P ₂ S ₁₀] ⁴⁻ : A Novel Polythiophosphate Anion Containing a Tetrasulfide Fragment. <i>Inorganic Chemistry</i> , 2001, 40, 6496-6498.	1.9	23
68	New Information on the Na-Ti-Se Ternary System. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 2001, 56, 49-56.	0.3	0
69	Flux Synthesis and Isostructural Relationship of Cubic Na _{1.5} Pb _{0.75} PS ₄ , Na _{0.5} Pb _{1.75} GeS ₄ , and Li _{0.5} Pb _{1.75} GeS ₄ . <i>Journal of Solid State Chemistry</i> , 2000, 153, 158-169.	1.4	52
70	LiEuPSe ₄ and KEuPSe ₄ : Novel Selenophosphates with the Tetrahedral [PSe ₄] ³⁻ Building Block. <i>Inorganic Chemistry</i> , 2000, 39, 1525-1533.	1.9	47
71	±-Bi ₄ (P ₂ Se ₆) ₃ : A New Ternary Selenophosphate Obtained in a P ₂ Se ₅ Flux. <i>Inorganic Chemistry</i> , 1999, 38, 4795-4800.	1.9	12
72	Metamagnetic Transition in EuSe ₂ : A New, Metastable Binary Rare-Earth Polychalcogenide. <i>Chemistry of Materials</i> , 1998, 10, 3928-3935.	3.2	43