

Caroline A Kirk

List of Publications by Year in descending order

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51
papers

1,359
citations

394421

19
h-index

345221

36
g-index

53
all docs

53
docs citations

53
times ranked

1878
citing authors

#	ARTICLE	IF	CITATIONS
1	Additive manufacturing of polyaniline electrodes for electrochemical applications. Additive Manufacturing, 2022, 54, 102710.	3.0	5
2	Optimising production of a biochar made from conifer brush and investigation of its potential for phosphate and ammonia removal. Industrial Crops and Products, 2022, 185, 115165.	5.2	4
3	A novel method to synthesize BiSI uniformly coated with rGO by chemical bonding and its application as a supercapacitor electrode material. Journal of Materials Chemistry A, 2021, 9, 15452-15461.	10.3	15
4	Nanoflower Ni(OH) ₂ grown in situ on Ni foam for high-performance supercapacitor electrode materials. Sustainable Energy and Fuels, 2021, 5, 5236-5246.	4.9	54
5	Mass-independent fractionation of oxygen isotopes during thermal decomposition of divalent metal carbonates: Crystallographic influence, potential mechanism and cosmochemical significance. Chemical Geology, 2021, 586, 120500.	3.3	6
6	Locating hydrogen positions in the autunite mineral metatorbernite [Cu(UO ₂) ₂ (PO ₄) ₂ ·8H ₂ O]: a combined approach using neutron powder diffraction and computational modelling. IUCr, 2021, 8, 963-972.	2.2	0
7	Nitrogen Doping and Carbon Coating Affects Substrate Selectivity of TiO ₂ Photocatalytic Organic Pollutant Degradation. ChemPhysChem, 2020, 21, 2643-2650.	2.1	5
8	Facile synthesis of BiSI and Bi ₁₃ S ₁₈ I ₂ as stable electrode materials for supercapacitor applications. Journal of Materials Chemistry C, 2020, 8, 13253-13262.	5.5	19
9	Incorporation of minor constituents into Portland cement tricalcium silicate: Bond valence assessment of the alite M1 polymorph crystal structure using synchrotron XRPD data. Cement and Concrete Research, 2020, 136, 106125.	11.0	11
10	Synthesis optimisation and characterisation of chitosan-calcite adsorbent from fishery-food waste for phosphorus removal. Environmental Science and Pollution Research, 2020, 27, 9790-9802.	5.3	27
11	Low-cost chitosan-calcite adsorbent development for potential phosphate removal and recovery from wastewater effluent. Water Research, 2020, 173, 115573.	11.3	129
12	Reply to comments on "Low-cost chitosan-calcite adsorbent development for potential phosphate removal and recovery from wastewater effluent" by Pap et al. [Water research 173 (2020) 115573]. Water Research, 2020, 179, 115828.	11.3	1
13	Solid solution formation in the metatorbernite "metazeunerite" system (Cu(UO ₂) ₂ (PO ₄) ₂ ·xH ₂ O) (AsO ₄) ₂ ·xH ₂ O and their stability under conditions of variable temperature. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2019, 377, 20180242.	3.4	3
14	Synchrotron X-ray and neutron investigation of the structure and thermal expansion of the monoclinic Al ₁₃ Cr ₂ phase. Journal of Alloys and Compounds, 2019, 781, 1198-1208.	5.5	7
15	Themed issue on advances in solid state chemistry and its applications. Journal of Materials Chemistry A, 2018, 6, 5241-5242.	10.3	1
16	Synthesis of Gold Nanoparticles Using the Interface of an Emulsion Droplet. Langmuir, 2017, 33, 5464-5472.	3.5	21
17	Jǎrgkellerite, Na ₃ Mn ₃ (PO ₄) ₂ (CO ₃)O ₂ ·5H ₂ O, a new layered phosphate-carbonate mineral from the Oldoinyo Lengai volcano, Gregory rift, northern Tanzania. Mineralogy and Petrology, 2017, 111, 373-381.	1.1	3
18	Synthesis and Assembly of Gold and Iron Oxide Particles Within an Emulsion Droplet; Facile Production of Core@Shell Particles. Colloids and Interface Science Communications, 2017, 16, 14-18.	4.1	12

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19	Free-standing compact cathodes for high volumetric and gravimetric capacity Li-S batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 19924-19933.	10.3	21
20	A High-Volumetric-Capacity Cathode Based on Interconnected Close-Packed N-Doped Porous Carbon Nanospheres for Long-Life Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , 2017, 7, 1701082.	19.5	88
21	Analysis of deposits formed during biomass co-firing on 15Mo3 under different gas and temperature conditions. <i>Materials at High Temperatures</i> , 2015, 32, 230-237.	1.0	0
22	Synthesis and structural characterisation of new ettringite and thaumasite type phases: Ca ₆ [Ca(OH) ₆ ·12H ₂ O] ₂ (SO ₄) ₃ ·2H ₂ O and Ca ₆ [M(OH) ₆ ·12H ₂ O] ₂ (SO ₄) ₂ (CO ₃) ₂ , M = Mn, Sn. <i>Solid State Sciences</i> , 2013, 25, 110-117.	3.2	18
23	Electrochromic and Colorimetric Properties of Nickel(II) Oxide Thin Films Prepared by Aerosol-Assisted Chemical Vapor Deposition. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 5675-5682.	8.0	109
24	Rickturnerite, Pb ₇ O ₄ [Mg(OH) ₄](OH)Cl ₃ , a complex new lead oxychloride mineral. <i>Mineralogical Magazine</i> , 2012, 76, 59-73.	1.4	9
25	X-ray Spectromicroscopy of Mineral Intergrowths in the Santa Catharina Meteorite. <i>Geostandards and Geoanalytical Research</i> , 2010, 34, 145-159.	3.1	6
26	The crystal structure and chemistry of mereheadite. <i>Mineralogical Magazine</i> , 2009, 73, 103-117.	1.4	26
27	PROTON LOCATION AND HYDROGEN BONDING IN THE HYDROUS LEAD COPPER SULFATES LINARITE, PbCu(SO ₄)(OH) ₂ , AND CALEDONITE, Pb ₅ Cu ₂ (SO ₄) ₃ CO ₃ (OH) ₆ . <i>Canadian Mineralogist</i> , 2009, 47, 649-662.	1.0	19
28	Production of potentially hazardous respirable silica airborne particulate from the burning of sugarcane. <i>Atmospheric Environment</i> , 2008, 42, 5558-5568.	4.1	34
29	The first environmental science experiments on the new microfocus spectroscopy beamline at Diamond. <i>Mineralogical Magazine</i> , 2008, 72, 197-200.	1.4	20
30	The role of earthworm communities in soil mineral weathering: a field experiment. <i>Mineralogical Magazine</i> , 2008, 72, 33-36.	1.4	12
31	Dielectric and structural studies of Ba ₂ MTi ₂ Nb ₃ O ₁₅ (BMTNO ₁₅ , M=Bi ³⁺ ,La ³⁺ ,Nd ³⁺ ,Sm ³⁺ ,Gd ³⁺) tetragonal tungsten bronze-structured ceramics. <i>Journal of Applied Physics</i> , 2007, 101, 104114.	2.5	110
32	Dehydration of Ca-montmorillonite at the crystal scale. Part 2. Mechanisms and kinetics. <i>American Mineralogist</i> , 2007, 92, 1007-1017.	1.9	50
33	Earthworm induced mineral weathering: Preliminary results. <i>European Journal of Soil Biology</i> , 2007, 43, S176-S183.	3.2	65
34	Dehydration of Ca-montmorillonite at the crystal scale. Part I: Structure evolution. <i>American Mineralogist</i> , 2007, 92, 994-1006.	1.9	75
35	Tungsten Bronze-Structured Temperature-Stable Dielectrics. <i>Journal of the American Ceramic Society</i> , 2007, 90, 980-982.	3.8	15
36	Serpentine-nontronite-vermiculite mixed-layer clay from the Weches formation, Claiborne group, middle Eocene, northeast Texas. <i>Clays and Clay Minerals</i> , 2006, 54, 101-115.	1.3	10

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37	Synthesis and characterisation of lanthanum germanate-based apatite phases. <i>Solid State Ionics</i> , 2005, 176, 1941-1947.	2.7	59
38	X-ray diffraction data for the new ferroelectric tetragonal tungsten bronze phases, Ba ₂ RETi ₂ M ₃ O ₁₅ :M=Nb and RE=La, Pr, Nd, Sm, Gd, Dy, (Bi);M=Ta and RE=La, Nd. <i>Powder Diffraction</i> , 2005, 20, 43-46.	0.2	11
39	Synthesis, Crystal Structure, and Characterization of Ba(Ti _{1/2} Mn _{1/2})O ₃ : A High Permittivity 12R-Type Hexagonal Perovskite.. <i>ChemInform</i> , 2004, 35, no.	0.0	0
40	Thaumasite-etringite solid solutions in degraded mortars. <i>Cement and Concrete Research</i> , 2004, 34, 1297-1305.	11.0	52
41	Li ⁺ ion conductivity in rock salt-structured nickel-doped Li ₃ NbO ₄ . <i>Dalton Transactions</i> , 2004, , 3042.	3.3	19
42	Synthesis, Crystal Structure, and Characterization of Ba(Ti _{1/2} Mn _{1/2})O ₃ : A High Permittivity 12R-Type Hexagonal Perovskite. <i>Chemistry of Materials</i> , 2004, 16, 2007-2015.	6.7	80
43	Synthesis and characterization of La ₄ BaCu ₅ O ₁₃ + $\hat{1}$ ' and La ₄ BaCu ₅ $\hat{2}$ 'xMxO ₁₃ + $\hat{1}$ ': M=Fe, Co, Ni, Zn. <i>Journal of Solid State Chemistry</i> , 2003, 170, 1-8.	2.9	12
44	A new relaxor ferroelectric, Ba ₂ LaTi ₂ Nb ₃ O ₁₅ . <i>Journal of Materials Chemistry</i> , 2002, 12, 2609-2611.	6.7	45
45	Crystal structure of the perovskite-related phase of approximate composition LaLi _{1/3} Ti _{2/3} O ₃ . <i>Solid State Sciences</i> , 2002, 4, 1163-1166.	3.2	4
46	Synthesis and characterisation of Ga-doped hexagonal BaTiO ₃ . <i>Crystal Engineering</i> , 2002, 5, 439-448.	0.7	18
47	Reversible spinel to rock salt transition in LiCoMnO $\hat{1}$ ' by oxygen (de) intercalation. <i>Journal of Materials Chemistry</i> , 2001, 11, 249-250.	6.7	18
48	Crystal Structure of La ₂₄ Li ₂₀ Ti ₅ O ₅₆ : A Pseudo-Close-Packed, Columnar Intergrowth Structure. <i>Journal of Solid State Chemistry</i> , 2001, 162, 379-388.	2.9	3
49	La ₂₄ Li _{18.67} Ti _{5.33} O ₅₆ : a novel columnar intergrowth structure of perovskite and distorted, cation-excess zinc blende. <i>Chemical Communications</i> , 2000, , 1437-1438.	4.1	1
50	LiSb ₃ O ₈ : the first tetra rutile structure. <i>Chemical Communications</i> , 2000, , 1951-1952.	4.1	4
51	NaBi ₃ V ₂ O ₁₀ : a new oxide ion conductor. <i>Journal of Materials Chemistry</i> , 1998, 8, 281-282.	6.7	23