Duncan H Gregory

List of Publications by Year
in descending order

194 papers	6,295 citations	61984 43 h-index	88630 70 g-index
223 all docs	223 docs citations	223 times ranked	7619 citing authors

#	Article	IF	Citations
1	Modern Microwave Methods in Solid-State Inorganic Materials Chemistry: From Fundamentals to Manufacturing. Chemical Reviews, 2014, 114, 1170-1206.	47.7	363
2	Energy and environment policy case for a global project on artificial photosynthesis. Energy and Environmental Science, 2013, 6, 695.	30.8	264
3	A Mechanism for Non-stoichiometry in the Lithium Amide/Lithium Imide Hydrogen Storage Reaction. Journal of the American Chemical Society, 2007, 129, 1594-1601.	13.7	229
4	Topological isomerism in coordination polymers. Chemical Communications, 2001, , 1432-1433.	4.1	213
5	Emerging concepts in solid-state hydrogen storage: the role of nanomaterials design. Energy and Environmental Science, 2012, 5, 5951.	30.8	130
6	Structural families in nitride chemistry. Journal of the Chemical Society Dalton Transactions, 1999, , 259-270.	1.1	129
7	Facile in situ solution synthesis of SnSe/rGO nanocomposites with enhanced thermoelectric performance. Journal of Materials Chemistry A, 2020, 8, 1394-1402.	10.3	117
8	Recent Advances in the Use of Sodium Borohydride as a Solid State Hydrogen Store. Energies, 2015, 8, 430-453.	3.1	97
9	Nanowire FET Based Neural Element for Robotic Tactile Sensing Skin. Frontiers in Neuroscience, 2017, 11, 501.	2.8	97
10	Sol-gel formation of ordered nanostructured doped ZnO films. Journal of Materials Chemistry, 2004, 14, 1087.	6.7	87
11	Hydrogen storage materials: present scenarios and future directions. Annual Reports on the Progress of Chemistry Section A, 2009, 105, 21.	0.8	87
12	Nitride chemistry of the s-block elements. Coordination Chemistry Reviews, 2001, 215, 301-345.	18.8	83
13	A Study of ¹⁵N/¹⁴N Isotopic Exchange over Cobalt Molybdenum Nitrides. ACS Catalysis, 2013, 3, 1719-1725.	11.2	83
14	Through-space contributions to two-dimensional double-quantum J correlation NMR spectra of magic-angle-spinning solids. Journal of Chemical Physics, 2005, 122, 194313.	3.0	82
15	Lithium nitrides, imides and amides as lightweight, reversible hydrogen stores. Journal of Materials Chemistry, 2008, 18, 2321.	6.7	82
16	Facile Surfactantâ€Free Synthesis of pâ€Type SnSe Nanoplates with Exceptional Thermoelectric Power Factors. Angewandte Chemie - International Edition, 2016, 55, 6433-6437.	13.8	81
17	MCNTs@MnO₂ Nanocomposite Cathode Integrated with Soluble O₂-Carrier Co-salen in Electrolyte for High-Performance Liâ€“Air Batteries. Nano Letters, 2017, 17, 2073-2078.	9.1	80
18	Title is missing!. Topics in Catalysis, 2002, 20, 65-74.	2.8	78

#	Article	IF	Citations
19	Topotactic Nitrogen Transfer: Structural Transformation in Cobalt Molybdenum Nitrides. Chemistry of Materials, 2010, 22, 2898-2907.	6.7	78
20	Structure of Lithium Nitride and Transition-Metal-Doped Derivatives, Li3-x-yMxN (M = Ni, Cu):Â A Powder Neutron Diffraction Study. Chemistry of Materials, 2002, 14, 2063-2070.	6.7	77
21	Low-Temperature Magnetic Properties of Hematite Nanorods. Chemistry of Materials, 2007, 19, 916-921.	6.7	75
22	Dilute Momentn-Type Ferromagnetic Semiconductor Li(Zn,Mn)As. Physical Review Letters, 2007, 98, 067202.	7.8	75
23	Oneâ€Step Synthesis of Bismuth Telluride Nanosheets of a Few Quintuple Layers in Thickness. Angewandte Chemie - International Edition, 2011, 50, 10397-10401.	13.8	75
24	Towards nitrogen transfer catalysis: reactive lattice nitrogen in cobalt molybdenum nitride. Chemical Communications, 2007, , 3051.	4.1	73
25	Nanostructural Evolution: From One-Dimensional Tungsten Oxide Nanowires to Three-Dimensional Ferberite Flowers. Chemistry of Materials, 2008, 20, 5657-5665.	6.7	73
26	Construction of stable Ta 3 N 5 /g-C 3 N 4 metal/non-metal nitride hybrids with enhanced visible-light photocatalysis. Applied Surface Science, 2017, 391, 392-403.	6.1	72
27	Recent progress in the synthesis of nanostructured magnesium hydroxide. CrystEngComm, 2017, 19, 6067-6084.	2.6	72
28	Dicalcium nitride, Ca2Nâ€”a 2D "excess electron" compound; synthetic routes and crystal chemistry. Journal of Materials Chemistry, 2000, 10, 1635-1641.	6.7	67
29	Chlorineâ€Enabled Electron Doping in Solutionâ€Synthesized SnSe Thermoelectric Nanomaterials. Advanced Energy Materials, 2017, 7, 1602328.	19.5	64
30	van der Waals Contact Engineering of Graphene Field-Effect Transistors for Large-Area Flexible Electronics. ACS Nano, 2019, 13, 3257-3268.	14.6	60
31	Energyâ€Saving Pathways for Thermoelectric Nanomaterial Synthesis: Hydrothermal/Solvothermal, Microwaveâ€Assisted, Solutionâ€Based, and Powder Processing. Advanced Science, 2022, 9, .	11.2	60
32	Synthesis and crystal structures of the new ternary nitrides Sr3CrN3 and Ba3CrN3. Journal of the Chemical Society Dalton Transactions, 1996, , 1.	1.1	58
33	Preparation and characterization of tungsten oxynitride nanowires. Journal of Materials Chemistry, 2007, 17, 4436.	6.7	56
34	Phases in the System Ba2M2-xCuxO4+Î´, M = In, Sc: Structure and Oxygen Stoichiometry. Journal of Solid State Chemistry, 1993, 107, 134-148.	2.9	54
35	Hydrogen: A future energy vector for sustainable development. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2010, 224, 539-558.	2.1	54
36	Ternary and higher pnictides; prospects for new materials and applications. Chemical Society Reviews, 2011, 40, 4099.	38.1	52

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37	The chemistry of ternary and higher lithium nitrides. Coordination Chemistry Reviews, 2013, 257, 1978-2014.	18.8	52
38	Metal Hydrides and Related Materials. Energy Carriers for Novel Hydrogen and Electrochemical Storage. Journal of Physical Chemistry C, 2020, 124, 7599-7607.	3.1	52
39	Lithium nitrides as sustainable energy materials. Chemical Record, 2008, 8, 229-239.	5.8	47
40	A metamorphic inorganic framework that can be switched between eight single-crystalline states. Nature Communications, 2017, 8, 14185.	12.8	46
41	Synthesis and Structure of Ca6MnN5: A New Nitridomanganate with Planar [MnN3]6- Anions. Inorganic Chemistry, 1995, 34, 5195-5198.	4.0	45
42	Flexible Ligands and Structural Diversity:â€‰ Isomerism in Cd(NO3)2 Coordination Polymers. Inorganic Chemistry, 2005, 44, 2544-2552.	4.0	45
43	Rapid surfactant-free synthesis of Mg(OH)2 nanoplates and pseudomorphic dehydration to MgO. CrystEngComm, 2015, 17, 5672-5679.	2.6	44
44	On the Regeneration of Co3Mo3N from Co6Mo6N with N2. Catalysis Letters, 2011, 141, 22-26.	2.6	43
45	Layered ternary transition metal nitrides; synthesis, structure and physical properties. Journal of Alloys and Compounds, 2001, 317-318, 237-244.	5.5	42
46	Strain amplitude response and the microstructure of PA/clay nanocomposites. Polymer, 2005, 46, 6429-6436.	3.8	42
47	Synthesis, Structure, and Magnetic Properties of the New Ternary Nitride BaHfN2and of the BaHf1â^'xZrxN2Solid Solution. Journal of Solid State Chemistry, 1998, 137, 62-70.	2.9	41
48	Precipitation of Solvent-Free C60(CO2)0.95 from Conventional Solvents:â€‰ A New Antisolvent Approach to Controlled Crystal Growth Using Supercritical Carbon Dioxide. Journal of the American Chemical Society, 2000, 122, 2480-2488.	13.7	41
49	Ultrarapid Materials Processing: Synthesis of Tungsten Carbide on Subminute Timescales. Advanced Materials, 2007, 19, 138-142.	21.0	41
50	Studies on chromium/aluminium-doped manganese spinel as cathode materials for lithium-ion batteriesâ€"A novel chelated solâ€"gel synthesis. Journal of Materials Processing Technology, 2008, 208, 520-531.	6.3	41
51	Phthalic acid assisted nano-sized spinel LiMn2O4 and LiCr Mn2â^'O4 (x= 0.00â€"0.40) via solâ€"gel synthesis and its electrochemical behaviour for use in Li-ion-batteries. Materials Research Bulletin, 2008, 43, 2119-2129.	5.2	41
52	Facile preparation of Î²-/Î³-MgH₂ nanocomposites under mild conditions and pathways to rapid dehydrogenation. Physical Chemistry Chemical Physics, 2016, 18, 10492-10498.	2.8	41
53	Propagation of amorphous oxide nanowires via the VLS mechanism: growth kinetics. Nanoscale Advances, 2019, 1, 3568-3578.	4.6	39
54	Synthesis and Structure of Sr2VN3 and Ba2VN3, Two New Nitridovanadates. Inorganic Chemistry, 1995, 34, 3912-3916.	4.0	38

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55	Towards New Negative Electrode Materials for Li-Ion Batteries: Electrochemical Properties of LiNiN. Chemistry of Materials, 2008, 20, 1676-1678.	6.7	38
56	Ultra-rapid, sustainable and selective synthesis of silicon carbide powders and nanomaterials via microwave heating. Energy and Environmental Science, 2011, 4, 1503.	30.8	38
57	Synthesis and Structure of Two New Layered Ternary Nitrides, SrZrN2and SrHfN2. Inorganic Chemistry, 1996, 35, 7608-7613.	4.0	36
58	Electrochemical behaviour of nano-sized spinel LiMn2O4 and LiAlxMn2â^'xO4 (x=Al: 0.00â€“0.40) synthesized via fumaric acid-assisted solâ€“gel synthesis for use in lithium rechargeable batteries. Journal of Physics and Chemistry of Solids, 2008, 69, 2082-2090.	4.0	36
59	Ultra-rapid processing of refractory carbides; 20 s synthesis of molybdenum carbide, Mo2C. Chemical Communications, 2007, , 742-744.	4.1	35
60	Multiphysics simulations of thermoelectric generator modules with cold and hot blocks and effects of some factors. Case Studies in Thermal Engineering, 2017, 10, 63-72.	5.7	35
61	Synthesis design strategies to anisotropic chalcogenidenanostructures. CrystEngComm, 2010, 12, 641-659.	2.6	34
62	Thermal performance of two heat exchangers for thermoelectric generators. Case Studies in Thermal Engineering, 2016, 8, 164-175.	5.7	34
63	Synthesis and Structure of the New Ternary Nitride SrTiN2. Inorganic Chemistry, 1998, 37, 3775-3778.	4.0	33
64	Optimization of sintering process on Li1+Al Ti2-(PO4)3 solid electrolytes for all-solid-state lithium-ion batteries. Ceramics International, 2020, 46, 20529-20536.	4.8	33
65	Probing copper halide supramolecular arrays of a ditopic ligand with complexes of a monotopic analogueDedicated to Barbara Duncan on the occasion of her retirement as Senior Teaching Fellow in Chemistry at the University of Otago, in acknowledgement of her contribution to our research activities.. Dalton Transactions RSC, 2002, , 1574-1580.	2.3	32
66	Structural chemistry of Cu3N powders obtained by ammonolysis reactions. Solid State Sciences, 2007, 9, 907-913.	3.2	32
67	Novel layered lithium nitridonickelates; effect of Li vacancy concentration on N co-ordination geometry and Ni oxidation state. Chemical Communications, 1999, , 1187-1188.	4.1	31
68	Fast Lithium Ion Diffusion in the Ternary Layered Nitridometalate LiNiN. Journal of the American Chemical Society, 2004, 126, 4066-4067.	13.7	31
69	Single-Step Synthesis and Surface-Assisted Growth of Superconducting TaS2 Nanowires. Angewandte Chemie - International Edition, 2006, 45, 7060-7063.	13.8	30
70	Crystal Chemistry and Electronic Structure of the Metallic Ternary Nitride, SrTiN2. Chemistry of Materials, 2003, 15, 3922-3929.	6.7	29
71	Topotactic anion-exchange in thermoelectric nanostructured layered tin chalcogenides with reduced selenium content. Chemical Science, 2018, 9, 3828-3836.	7.4	28
72	Synthesis, stoichiometry and thermal stability of Zn3N2 powders prepared by ammonolysis reactions. Journal of Solid State Chemistry, 2008, 181, 158-165.	2.9	27

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73	Large-Scale Surfactant-Free Synthesis of p-Type SnTe Nanoparticles for Thermoelectric Applications. Materials, 2017, 10, 233.	2.9	27
74	Ultrarapid Microwave Synthesis of Superconducting Refractory Carbides. Advanced Materials, 2009, 21, 4502-4504.	21.0	26
75	Muon Spin Relaxation Studies of Lithium Nitridometallate Battery Materials: Muon Trapping and Lithium Ion Diffusion. Journal of Physical Chemistry C, 2009, 113, 20758-20763.	3.1	26
76	Pressure-dependent deuterium reaction pathways in the Liâ€“Nâ€“D system. Physical Chemistry Chemical Physics, 2010, 12, 2089.	2.8	26
77	Investigation of Al-doping effects on the NaFe0.5Mn0.5O2 cathode for Na-ion batteries. Ionics, 2016, 22, 2245-2248.	2.4	26
78	A coupled optical-thermal-electrical model to predict the performance of hybrid PV/T-CCPC roof-top systems. Renewable Energy, 2017, 112, 166-186.	8.9	25
79	Conceptual design and performance evaluation of a hybrid concentrating photovoltaic system in preparation for energy. Energy, 2018, 147, 547-560.	8.8	24
80	Ternary lithium nitridocuprates, Li3â^'xâ^'yCuxN: crystal growth, bulk synthesis, structure and magnetic properties. Solid State Sciences, 2001, 3, 973-981.	0.7	23
81	Evolution of structure, transport properties and magnetism in ternary lithium nitridometalates Li3â^'xâ^'yMxN, M = Co, Ni, Cu. Dalton Transactions, 2004, , 3093-3097.	3.3	23
82	Stoichiometry and Defect Structure Control in the Ternary Lithium Nitridometalates Li3-x-yNixN. Chemistry of Materials, 2006, 18, 313-320.	6.7	23
83	Rapid, energy-efficient synthesis of the layered carbide, Al₄C₃. Green Chemistry, 2015, 17, 285-290.	9.0	23
84	A novel absorptive/reflective solar concentrator for heat and electricity generation: An optical and thermal analysis. Energy Conversion and Management, 2016, 114, 142-153.	9.2	23
85	Mechanochemical Synthesis and Structure of Lithium Tetrahaloaluminates, LiAlX₄ (X = Cl,) Tj ETQq1 1 0.784314 rgBT /Ove		23
86	Crystal growth, defect structure and magnetism of new Li3N-derived lithium nitridocobaltates. Chemical Communications, 2004, , 2812.	4.1	22
87	Crystal Chemistry and Electronic Structure of the Metallic Lithium Ion Conductor, LiNiN. Journal of the American Chemical Society, 2007, 129, 1912-1920.	13.7	21
88	New Ternary and Quaternary Barium Nitride Halides; Synthesis and Crystal Chemistry. Inorganic Chemistry, 2011, 50, 9545-9553.	4.0	21
89	Enhanced cycle ability of spinel LiMn2O4 by controlling the phase purity and structural strain. Journal of Physics and Chemistry of Solids, 2012, 73, 1390-1395.	4.0	21
90	Ammonia Uptake and Release in the MnX2â€“NH3 (X = Cl, Br) Systems and Structure of the Mn(NH3)nX2 (n) Tj ETQq0 0 0 rgBT /Overlo	2.2	21

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91	Multiphysics Simulations of a Thermoelectric Generator. Energy Procedia, 2015, 75, 633-638.	1.8	21
92	Facile preparation of copper nitride powders and nanostructured films. Journal of Materials Chemistry C, 2016, 4, 5031-5037.	5.5	21
93	Spinel-Li3.5+xTi5O12 coated LiMn2O4 with high surface Mn valence for an enhanced cycling performance at high temperature. Electrochemistry Communications, 2013, 31, 92-95.	4.7	20
94	Phase Behavior in the LiBH₄â€“LiBr System and Structure of the Anion-Stabilized Fast Ionic, High Temperature Phase. Chemistry of Materials, 2015, 27, 7780-7787.	6.7	20
95	Synthesis and structure of the ternary and quaternary strontium nitride halides, Sr2N(X, Xâ€²) (X, Xâ€²=Cl,) Tj ETQq1 1 0.784314 rgBT	2.9	19
96	Low dimensional nanostructures of fast ion conducting lithium nitride. Nature Communications, 2020, 11, 4492.	12.8	19
97	Synthesis and characterisation of the ternary nitride, Sr2TaN3. Journal of Alloys and Compounds, 2003, 348, 80-87.	5.5	18
98	Ternary and quaternary layered nitride halides, Ca2N(X,Xâ€²) (X,Xâ€²=Cl, Br, I): Evolution of structure with composition. Journal of Solid State Chemistry, 2005, 178, 1807-1817.	2.9	18
99	Magnetic properties of sol-gel-derived doped ZnO as a potential ferromagnetic semiconductor: a synchrotron-based study. New Journal of Physics, 2008, 10, 055012.	2.9	18
100	Superconducting tantalum disulfide nanotapes; growth, structure and stoichiometry. Nanoscale, 2010, 2, 90-97.	5.6	18
101	Revisiting the Hydrogen Storage Behavior of the Na-O-H System. Materials, 2015, 8, 2191-2203.	2.9	18
102	Structural studies of magnesium nitride fluorides by powder neutron diffraction. Journal of Solid State Chemistry, 2012, 185, 213-218.	2.9	17
103	Insight into lithium transport in lithium nitridometallate battery materials from muon spin relaxation. Physical Chemistry Chemical Physics, 2013, 15, 816-823.	2.8	17
104	Synthesis, Characterization and Shape-Dependent Catalytic CO Oxidation Performance of Ruthenium Oxide Nanomaterials: Influence of Polymer Surfactant. Applied Sciences (Switzerland), 2015, 5, 344-358.	2.5	17
105	Ba6â^'3x Nd8+2x Ti18O54 Tungsten Bronze: A New High-Temperature n-Type Oxide Thermoelectric. Journal of Electronic Materials, 2016, 45, 1894-1899.	2.2	17
106	Facile synthesis of bimetallic carbonitrides, V1â^'xTix(C,N), by microwave carbothermal reductionâ€“ammonolysis/carburisation (MW-CRAC) methods. Journal of the European Ceramic Society, 2009, 29, 2355-2361.	5.7	16
107	Ammonia Borane Based Nanocomposites as Solidâ€State Hydrogen Stores for Portable Power Applications. Energy Technology, 2018, 6, 583-594.	3.8	16
108	Metallic Nanowires of Nb3Te4: A Nanostructured Chalcogenide. Angewandte Chemie - International Edition, 2005, 44, 3555-3558.	13.8	15

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109	Facile synthesis of nanosized sodium magnesium hydride, NaMgH3. Progress in Natural Science: Materials International, 2013, 23, 343-350.	4.4	15
110	Highly efficient catalytic pyrolysis of polyethylene waste to derive fuel products by novel polyoxometalate/kaolin composites. Waste Management and Research, 2020, 38, 689-695.	3.9	15
111	Multiple Roles of Unconventional Heteroatom Dopants in Chalcogenide Thermoelectrics: The Influence of Nb on Transport and Defects in Bi₂Te₃. ACS Applied Materials & Interfaces, 2021, 13, 13400-13409.	8.0	15
112	From binary to multinary copper based nitrides â€“ Unlocking the potential of new applications. Coordination Chemistry Reviews, 2021, 436, 213791.	18.8	15
113	Oxygen distribution and the structure of La2â^'xBaxSrCu2O6Â±Î´ (0<x<0.25). Materials Research Bulletin, 1990, 25, 1279-1286.	5.2	14
114	Magnesium diiodide, MgI2. Acta Crystallographica Section C: Crystal Structure Communications, 2003, 59, i136-i138.	0.4	14
115	Theoretical study on the structural, electronic and physical properties of layered alkaline-earth-group-4 transition-metal nitrides AEMN₂. RSC Advances, 2014, 4, 31981-31987.	3.6	14
116	Anion-exchange synthesis of thermoelectric layered SnS_{0.1}Se_{0.9â^'x}Te_x nano/microstructures in aqueous solution: complexity and carrier concentration. Journal of Materials Chemistry C, 2019, 7, 7572-7579.	5.5	14
117	Heteroanionic intercalation into positively charged inorganic hosts: the first nitride mixed halides. Chemical Communications, 2001, , 1650-1651.	4.1	13
118	Synthesis of LiNH2 + LiH by reactive milling of Li3N. Faraday Discussions, 2011, 151, 253.	3.2	13
119	Surface coating of LiMn2O4 spinel via in situ hydrolysis route: effect of the solution. Ionics, 2013, 19, 739-745.	2.4	13
120	Toward New Thermoelectrics: Tin Selenide/Modified Graphene Oxide Nanocomposites. ACS Omega, 2019, 4, 6010-6019.	3.5	13
121	First time microwave synthesis of As40Se60 chalcogenide glass. Journal of Non-Crystalline Solids, 2010, 356, 2134-2145.	3.1	12
122	In situ powder neutron diffraction study of non-stoichiometric phase formation during the hydrogenation of Li3N. Faraday Discussions, 2011, 151, 263.	3.2	12
123	Probing the microwave interaction mechanisms and reaction pathways in the energy-efficient, ultra-rapid synthesis of tungsten carbide. Green Chemistry, 2012, 14, 2184.	9.0	11
124	A scaling law for monocrystalline PV/T modules with CCPC and comparison with triple junction PV cells. Applied Energy, 2017, 202, 755-771.	10.1	11
125	Nano-inclusion in one step: spontaneous ice-templating of porous hierarchical nanocomposites for selective hydrogen release. Sustainable Energy and Fuels, 2019, 3, 396-400.	4.9	11
126	Microwaveâ€Assisted Synthesis of ZnOâ€“rGO Coreâ€“Shell Nanorod Hybrids with Photoâ€•and Electroâ€Catalytic Activity. Chemistry - A European Journal, 2020, 26, 6703-6714.	3.3	11

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127	Synthesis, stoichiometry and structure of the quaternary scandium cuprate Ba3Cu3Sc4O12 and of 334-phase solid solution members Ba3Cu3Sc4 â^' xInxO12 (0 â‰¤ x â‰¤ 4). Journal of Materials Chemistry, 2001, 11, 806-814.	6.7	10
128	Growth and characterisation of titanium sulphide nanostructures by surface-assisted vapour transport methods; from trisulphide ribbons to disulphide nanosheets. International Journal of Nanotechnology, 2012, 9, 23.	0.2	10
129	The Challenge of Storage in the Hydrogen Energy Cycle: Nanostructured Hydrides as a Potential Solution. Australian Journal of Chemistry, 2012, 65, 656.	0.9	10
130	Coupled Simulation of Performance of a Crossed Compound Parabolic Concentrator with Solar Cell. Energy Procedia, 2015, 75, 325-330.	1.8	10
131	Alkaline earth doping in lanthanum neodymium calcium cuprates with the â€œ212â€•structure. Materials Research Bulletin, 1992, 27, 1309-1318.	5.2	9
132	Structural refinement of Eu doped CaMgSi2O6 using X-ray powder diffraction data. Journal of Luminescence, 2005, 115, 1-6.	3.1	9
133	Growth and Microstructural Characterization of Single Crystalline Nb3Te4 Nanowires. Crystal Growth and Design, 2005, 5, 1633-1637.	3.0	9
134	Structure, stoichiometry and transport properties of lithium copper nitride battery materials: combined NMR and powder neutron diffraction studies. Physical Chemistry Chemical Physics, 2011, 13, 10641.	2.8	9
135	Facile Surfactantâ€Free Synthesis of pâ€Type SnSe Nanoplates with Exceptional Thermoelectric Power Factors. Angewandte Chemie, 2016, 128, 6543-6547.	2.0	9
136	Ultrafast, Energy-Efficient Synthesis of Intermetallics; Microwave-Induced Metal Plasma (MIMP) Synthesis of Mg₂Sn. ACS Sustainable Chemistry and Engineering, 2019, 7, 19686-19698.	6.7	9
137	Synthesis and structure of new mixed alkaline-earth nitridomolybdates and nitridotungstates, (Ba,Ca)3[MN4] (M = Mo, W)Dedicated to Dr Marten G. Barker in memoriam.. Dalton Transactions, 2003, , 1065-1069.	3.3	8
138	Quantitative phase analysis of boron nitride nanotubes using Rietveld refinement. Journal Physics D: Applied Physics, 2005, 38, 1127-1131.	2.8	8
139	Facile Uptake and Release of Ammonia by Nickel Halide Ammines. ChemSusChem, 2016, 9, 1312-1321.	6.8	8
140	Lithium niobium disulfide, Li0.63NbS2. Acta Crystallographica Section C: Crystal Structure Communications, 2003, 59, i4-i6.	0.4	7
141	New metathesis routes to layered dichalcogenides: synthesis, crystal growth and structure of NayNbX2 (y = 0.5, X = S, Se). Journal of Materials Chemistry, 2003, 13, 175-180.	6.7	7
142	Site Preference of La in Bi3.75La0.25Ti3O12 Using Neutron Powder Diffraction and Raman Scattering. Journal of Electroceramics, 2005, 14, 265-271.	2.0	7
143	Hydrothermally synthesised Fe2O3 nanoparticles as catalyst precursors for the CVD production of graphitic nanofibres. Journal of Physics: Conference Series, 2006, 26, 195-198.	0.4	7
144	Rapid Microwave Synthesis, Characterization and Reactivity of Lithium Nitride Hydride, Li4NH. Materials, 2013, 6, 5410-5426.	2.9	7

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145	New Surfaceâ€Directed Vapour Transport Methods for the Controlled Growth of Nickel Sulfide Nanomaterials. Israel Journal of Chemistry, 2010, 50, 515-523.	2.3	6
146	Tunable Defect Structure in the Liâ˜Mgâ˜N Ternary Phase System: A Powder Neutron Diffraction Study. Chemistry of Materials, 2010, 22, 3174-3182.	6.7	6
147	Reaction of [Ni(H 2 O) 6](NO 3) 2 with gaseous NH 3 ; crystal growth via in-situ solvation. Journal of Crystal Growth, 2015, 412, 1-6.	1.5	6
148	Synthesis and catalytic performance of cesium and potassium salts of aluminum substituted tungstoborate for pyrolysis of polyethylene waste to petrochemical feedstock. Materials Chemistry and Physics, 2020, 246, 122781.	4.0	6
149	Neutron diffraction study of the â€˜doubled perovskiteâ€™ phases Ba2M2â€“xCuxO4+Î´(M = In, Sc). Journal of Materials Chemistry, 1994, 4, 921-929.	6.7	5
150	A study on the synthesis and characterisation of nanocrystalline transition metal oxynitrides. Journal of Materials Science, 2007, 42, 6779-6786.	3.7	5
151	Structural and compositional tuning of layered subnitrides; new complex nitride halides. Dalton Transactions, 2010, 39, 7153.	3.3	5
152	Photovoltaic-thermoelectric modules: A feasibility study. , 2014, , .		5
153	The Search for Hydrogen Stores on a Large Scale; A Straightforward and Automated Open Database Analysis as a First Sweep for Candidate Materials. Crystals, 2015, 5, 617-633.	2.2	5
154	Ultra-rapid microwave synthesis of Li_{3â˜xâ˜y}M_xN (M = Co, Ni and Cu) nitridometallates. Inorganic Chemistry Frontiers, 2015, 2, 1045-1050.	6.0	5
155	Scalable solar thermoelectrics and photovoltaics (SUNTRAP). AIP Conference Proceedings, 2016, , .	0.4	5
156	Ni(NH3)2(NO3)2â€”A 3-D Network through Bridging Nitrate Units Isolated from the Thermal Decomposition of Nickel Hexammine Dinitrate. Inorganics, 2018, 6, 59.	2.7	5
157	Synthesis and crystal structure of a new strontium nitridomolybdate oxide, Sr4[MoN4]O. Dalton Transactions RSC, 2000, , 633-638.	2.3	4
158	New families of mixed alkaline-earth nitridomolybdates and nitridotungstates, (Ba,Sr)3[MN4] (M = Mo,) Tj ETQq0 0 0 rgBT /Overlock 10	2.3	4
159	New mixed alkaline-earth nitridomolybdate(vi) nitride oxides with anion-ordered sub-structuresDedicated to Dr Marten G. Barker in memoriam.. Dalton Transactions, 2004, , 1298.	3.3	4
160	Imides and amides as hydrogen storage materials. , 2008, , 450-477.		4
161	Probing the chemical and electronic properties of the coreâ€“shell architecture of transition metal trisulfide nanoribbons. Nanoscale, 2012, 4, 607-612.	5.6	4
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