Andrew L Hector

List of Publications by Year
in descending order

206 papers	4,717 citations	87888 38 h-index	175258 52 g-index
217 all docs	217 docs citations	217 times ranked	5240 citing authors

#	Article	IF	Citations
1	Synthesis and structural study of stoichiometric Bi2Ti2O7 pyrochlore. Journal of Solid State Chemistry, 2004, 177, 139-145.	2.9	179
2	Nitrogen-rich transition metal nitrides. Coordination Chemistry Reviews, 2013, 257, 2063-2072.	18.8	114
3	Understanding and development of olivine LiCoPO₄cathode materials for lithium-ion batteries. Journal of Materials Chemistry A, 2018, 6, 14483-14517.	10.3	98
4	Structural and compositional variations in Ta3N5 produced by high-temperature ammonolysis of tantalum oxide. Journal of Solid State Chemistry, 2006, 179, 3518-3524.	2.9	96
5	Synthesis and applications of nanocrystalline nitride materials. Journal of Materials Chemistry, 2009, 19, 4673.	6.7	83
6	Molecular Routes to Metal Carbides, Nitrides, and Oxides. 2. Studies of the Ammonolysis of Metal Dialkylamides and Hexamethyldisilylamides. Chemistry of Materials, 1996, 8, 1222-1228.	6.7	76
7	Performance of nanocrystalline Ni3N as a negative electrode for sodium-ion batteries. Journal of Materials Chemistry A, 2013, 1, 6441.	10.3	74
8	Germanium(II) Dications Stabilized by Azamacrocycles and Crown Ethers. Angewandte Chemie - International Edition, 2009, 48, 5152-5154.	13.8	73
9	Effect of oxidative surface treatments on charge storage at titanium nitride surfaces for supercapacitor applications. Journal of Materials Chemistry A, 2017, 5, 4550-4559.	10.3	70
10	Structural Variations in Pyrochlore-Structured Bi2Hf2O7, Bi2Ti2O7 and Bi2Hf2-xTixO7 Solid Solutions as a Function of Composition and Temperature by Neutron and X-ray Diffraction and Raman Spectroscopy. Chemistry of Materials, 2007, 19, 1712-1722.	6.7	65
11	Highly Selective Chemical Vapor Deposition of Tin Diselenide Thin Films onto Patterned Substrates via Single Source Diselenoether Precursors. Chemistry of Materials, 2012, 24, 4442-4449.	6.7	64
12	Thio- and seleno-ether complexes with Group 4 tetrahalides and tin tetrachloride: preparation and use in CVD for metal chalcogenide films. Dalton Transactions, 2007, , 4769.	3.3	63
13	Amorphous and nanocrystalline titanium nitride and carbonitride materials obtained by solution phase ammonolysis of Ti(NMe2)4. Journal of Solid State Chemistry, 2006, 179, 1383-1393.	2.9	57
14	Synthesis and structural characterisation of germanium(ii) halide complexes with neutral N-donor ligands. Dalton Transactions, 2010, 39, 847-856.	3.3	55
15	Atomic displacements in the charge ice pyrochlore<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>Bi</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:msub> by neutron total scattering. Physical Review B, 2010, 81, .	3.2	52
16	Rapid, low energy synthesis of lanthanide nitrides. Polyhedron, 1994, 13, 235-240.	2.2	51
17	Structural and MÃ¶ssbauer study of Sr2FeO3X (X = F, Cl, Br) and the magnetic structure of Sr2FeO3F. Journal of Materials Chemistry, 2001, 11, 527-532.	6.7	51
18	Materials synthesis using oxide free solâ€“gel systems. Chemical Society Reviews, 2007, 36, 1745.	38.1	51

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19	Evaluation of nanocrystalline Sn₃N₄derived from ammonolysis of Sn(NEt₂)₄as a negative electrode material for Li-ion and Na-ion batteries. Journal of Materials Chemistry A, 2016, 4, 5081-5087.	10.3	49
20	Low-temperature routes to early transition-metal nitrides. Journal of the Chemical Society Dalton Transactions, 1993, , 2435.	1.1	48
21	Large low-temperature specific heat in pyrochlore<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>Bi</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:ms Physical Review B, 2009, 79, .	3.2	48
22	Redox supercapacitor performance of nanocrystalline molybdenum nitrides obtained by ammonolysis of chloride- and amide-derived precursors. Journal of Power Sources, 2014, 266, 456-463.	7.8	48
23	Syntheses, powder neutron diffraction structures and MÃ¶ssbauer studies of some complex iron oxyfluorides: Sr3Fe2O6F0.87, Sr2FeO3F and Ba2InFeO5F0.68. Journal of Materials Chemistry, 1999, 9, 2821-2827.	6.7	47
24	Hydrothermal Synthesis of Rare Earth Iodates from the Corresponding Periodates: Structures of Sc(IO3)3, Y(IO3)3â€ŠÂ·â€Š2â€ŠH2O, La(IO3)3â€ŠÂ·â€Š1/2â€ŠH2O and Lu(IO3)3â€ŠÂ·â€Š2â€ŠH2O. Zeitschrift Fur Anorganische Und Chemie, 2002, 628, 198-202.	1.2	47
25	Chemical vapour deposition of antimony chalcogenides with positional and orientational control: precursor design and substrate selectivity. Journal of Materials Chemistry C, 2015, 3, 423-430.	5.5	46
26	Evaluation of Cu₃N and CuO as Negative Electrode Materials for Sodium Batteries. Journal of Physical Chemistry C, 2014, 118, 29568-29573.	3.1	45
27	Tin(<scp>iv</scp>) chalcogenoether complexes as single source precursors for the chemical vapour deposition of SnE₂ and SnE (E = S, Se) thin films. Dalton Transactions, 2018, 47, 2628-2637.	3.3	45
28	Non-aqueous electrodeposition of p-block metals and metalloids from halometallate salts. RSC Advances, 2013, 3, 15645.	3.6	43
29	Formation of a new (1T) trigonal NbS2 polytype via atmospheric pressure chemical vapour depositionElectronic supplementary information (ESI) available: structure refinements of the NbS2 films and crystallographic data in CIF format. See http://www.rsc.org/suppdata/jm/b3/b315782m/. Journal of Materials Chemistry, 2004, 14, 290.	6.7	42
30	Synthesis, Spectroscopic and Structural Systematics of Complexes of Germanium(IV) Halides (GeX₄, X = F, Cl, Br or I) with Monoâ€; Biâ€•and Triâ€Dentate and Macrocyclic Nitrogen Donor Ligands. European Journal of Inorganic Chemistry, 2007, 2007, 4897-4905.	2.0	42
31	Selective lithium extraction from brines by chemical reaction with battery materials. Journal of Materials Chemistry A, 2014, 2, 6374-6377.	10.3	42
32	Sodium azide as a reagent for solid state metathesis preparations of refractory metal nitrides. Polyhedron, 1995, 14, 913-917.	2.2	41
33	Diphosphine and Diarsine Complexes of Germanium(II) Halidesâ€”Preparation, Spectroscopic, and Structural Studies. Inorganic Chemistry, 2010, 49, 752-760.	4.0	41
34	Electrodeposition from supercritical fluids. Physical Chemistry Chemical Physics, 2014, 16, 9202.	2.8	41
35	Preparation, Characterization, and Structural Systematics of Diphosphane and Diarsane Complexes of Gallium(III) Halides. Inorganic Chemistry, 2007, 46, 7215-7223.	4.0	40
36	Synthesis of Tetragonal and Orthorhombic Polymorphs of Hf₃N₄ by High-Pressure Annealing of a Prestructured Nanocrystalline Precursor. Journal of the American Chemical Society, 2013, 135, 9503-9511.	13.7	40

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37	Structural Transformations and Disordering in Zirconolite (CaZrTi₂O₇) at High Pressure. Inorganic Chemistry, 2013, 52, 1550-1558.	4.0	40
38	Organometallic macrocycle chemistry. 2. Synthesis of organometallic (trithiacyclononane)ruthenium(II) complexes. Organometallics, 1992, 11, 2323-2324.	2.3	39
39	Tin(ii) fluoride vs. tin(ii) chloride â€“ a comparison of their coordination chemistry with neutral ligands. Dalton Transactions, 2013, 42, 8364.	3.3	39
40	Ordered mesoporous silica films with pores oriented perpendicular to a titanium nitride substrate. Physical Chemistry Chemical Physics, 2015, 17, 4763-4770.	2.8	39
41	Magnesium and Calcium Nitrides as Nitrogen Sources in Metathetical Reactions to Produce Metal Nitrides. Chemistry of Materials, 1995, 7, 1728-1733.	6.7	38
42	Synthesis, Spectroscopic and Structural Systematics of Complexes of Germanium(IV) Halides (GeX4, X =) Tj ETQq0 0 0 rgBT /Overlock 1 Inorganic Chemistry, 2007, 2007, 2488-2495.	2.0	38
43	Direct Solvothermal Synthesis of Early Transition Metal Nitrides. Inorganic Chemistry, 2008, 47, 9684-9690.	4.0	38
44	The role of preparation route upon the ambient pressure ammonia synthesis activity of Ni2Mo3N. Applied Catalysis A: General, 2015, 504, 44-50.	4.3	38
45	Incoherent Bi off-centering in Bi2Ti2O6Oâ€²and Bi2Ru2O6Oâ€²: Insulator versus metal. Physical Review B, 2011, 84, .	3.2	37
46	Telluroether and Selenoether Complexes as Single Source Reagents for Low Pressure Chemical Vapor Deposition of Crystalline Ga₂Te₃ and Ga₂Se₃ Thin Films. Chemistry of Materials, 2013, 25, 1829-1836.	6.7	37
47	Niobium(<scp>v</scp>) and tantalum(<scp>v</scp>) halide chalcogenoether complexes â€“ towards single source CVD precursors for ME₂thin films. Dalton Transactions, 2014, 43, 16640-16648.	3.3	36
48	Direct Observation of Active Material Concentration Gradients and Crystallinity Breakdown in LiFePO₄ Electrodes During Charge/Discharge Cycling of Lithium Batteries. Journal of Physical Chemistry C, 2014, 118, 6548-6557.	3.1	36
49	Syntheses, Structures, and Preliminary Electrochemistry of the Layered Lithium and Sodium Manganese(IV) Oxides, A2Mn3O7. Chemistry of Materials, 2001, 13, 4618-4623.	6.7	35
50	Rapid synthesis of TiN, HfN and ZrN from solid-state precursors. Polyhedron, 1993, 12, 1295-1300.	2.2	34
51	Vanadium selenoether and selenolate complexes, potential single-source precursors for CVD of VSe₂thin films. New Journal of Chemistry, 2009, 33, 641-645.	2.8	34
52	The Role of Composition for Cobalt Molybdenum Carbide in Ammonia Synthesis. ACS Sustainable Chemistry and Engineering, 2017, 5, 9214-9222.	6.7	34
53	Structures of Ln(IO3)3 (Ln = Pr, Nd, Sm, Eu, Gd, Tb, Ho, Er) and Ln(IO3)3Â· 2H2O (Ln = Eu, Gd, Dy, Er, Tm, Yb). Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2004, 630, 479-483.	1.2	33
54	Preparation and Characterization of a Material of Composition BiP (Bismuth Phosphide) and Other Intergroup 15 Element Phases. Chemistry of Materials, 1997, 9, 1385-1392.	6.7	32

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55	A nonoxidic solâ€“gel route to titanium nitride and carbonitride films by primary aminecondensation. Journal of Materials Chemistry, 2007, 17, 1016-1022.	6.7	32
56	Structure, Bonding, and Phase Relations in Bi₂Sn₂O₇ and Bi₂Ti₂O₇ Pyrochlores: New Insights from High Pressure and High Temperature Studies. Inorganic Chemistry, 2011, 50, 11905-11913.	4.0	32
57	Self-propagating routes to transition-metal phosphides. Journal of Materials Chemistry, 1994, 4, 279.	6.7	31
58	Gallium(III) halide complexes with phosphines, arsines and phosphine oxides â€“ a comparative study. Polyhedron, 2007, 26, 4147-4155.	2.2	31
59	Hypervalent neutral O-donor ligand complexes of silicon tetrafluoride, comparisons with other group 14 tetrafluorides and a search for soft donor ligand complexes. Dalton Transactions, 2011, 40, 1584.	3.3	31
60	Controlling the nanostructure of bismuth telluride by selective chemical vapour deposition from a single source precursor. Journal of Materials Chemistry A, 2014, 2, 4865.	10.3	31
61	Phase-transforming electrodes. Science, 2014, 344, 1451-1452.	12.6	31
62	Synthesis of U3Se5 and U3Te5 type polymorphs of Ta3N5 by combining high pressureâ€“temperature pathways with a chemical precursor approach. Chemical Communications, 2014, 50, 10041-10044.	4.1	30
63	Low-temperature solid-state routes to transition metal oxides via metathesis reactions involving lithium oxide. Polyhedron, 1993, 12, 1855-1862.	2.2	29
64	Area Selective Growth of Titanium Diselenide Thin Films into Micropatterned Substrates by Low-Pressure Chemical Vapor Deposition. Chemistry of Materials, 2013, 25, 4719-4724.	6.7	29
65	Coordination networks derived from germanium(ii) thioether macrocyclic complexesâ€”the first authenticated chalcogenoether complexes of Ge(ii). Chemical Communications, 2008, , 5508.	4.1	28
66	Preparation and structure of the unique silicon(iv) cation [SiF3(Me3tacn)]+. Chemical Communications, 2009, , 1334.	4.1	28
67	Non-aqueous electrodeposition of functional semiconducting metal chalcogenides: Ge₂Sb₂Te₅ phase change memory. Materials Horizons, 2015, 2, 420-426.	12.2	28
68	Green synthesis of highly concentrated aqueous colloidal solutions of large starch-stabilised silver nanoplatelets. Materials Science and Engineering C, 2015, 46, 530-537.	7.3	28
69	Synthesis of Vanadium Nitrideâ€“Hard Carbon Composites from Cellulose and Their Performance for Sodium-Ion Batteries. ACS Applied Energy Materials, 2020, 3, 4286-4294.	5.1	28
70	Low pressure chemical vapor deposition of metallic films of iron, manganese, cobalt, copper, germanium and tin employing bis(trimethyl)silylamido complexes, M(N(SiMe3)2)n. Chemical Vapor Deposition, 1995, 1, 49-51.	1.3	27
71	Synthesis and Reactions of Five-Coordinate Mono- and Binuclear Thiocarbonylâ^'Alkenyl and Thioacyl Complexes of Ruthenium(II). Organometallics, 2007, 26, 6114-6125.	2.3	27
72	Evaluation of Group 4 Metal Bis-cyclopentadienyl Complexes with Selenolate and Tellurolate Ligands for CVD of ME₂ Films (E = Se or Te). Chemistry of Materials, 2008, 20, 5100-5106.	6.7	27

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73	Supramolecular assemblies of germanium(ii) halides with O-, S- and Se-donor macrocycles â€“ the effects of donor atom type upon structure. Dalton Transactions, 2011, 40, 694-700.	3.3	27
74	Solvothermal synthesis and electrochemical charge storage assessment of Mn₃N₂. Journal of Materials Chemistry A, 2015, 3, 3612-3619.	10.3	26
75	Template Infiltration Routes to Ordered Macroporous TiN and SiNx Films. Chemistry of Materials, 2009, 21, 4210-4215.	6.7	24
76	Mechanical Properties of Titanium Nitride Nanocomposites Produced by Chemical Precursor Synthesis Followed by High-P,T Treatment. Materials, 2011, 4, 1747-1762.	2.9	24
77	Synthesis and processing of silicon nitride and related materials using preceramic polymer and non-oxide sol-gel approaches. Coordination Chemistry Reviews, 2016, 323, 120-137.	18.8	24
78	A solâ€“gel route to titanium nitride conductive coatings on battery materials and performance of TiN-coated LiFePO₄. Journal of Materials Chemistry A, 2017, 5, 2251-2260.	10.3	24
79	Chemical Vapor Deposition of Niobium Disulfide Thin Films. European Journal of Inorganic Chemistry, 2004, 2004, 4470-4476.	2.0	23
80	Use of low temperature solvothermal reactions in the synthesis of nanocrystalline tantalum nitrides including nanorods. Journal of Materials Chemistry, 2008, 18, 1392.	6.7	23
81	Synthetic and Computational Studies of Thiocarbonyl/Ïƒ-Organyl Coupling Reactions. Organometallics, 2008, 27, 5548-5558.	2.3	23
82	Synthesis and properties of scandium, yttrium and lanthanum periodates. Crystal structures of Y(H2O)3{IO4(OH)2} and Y(H2O)2(IO3)3. Inorganica Chimica Acta, 2000, 298, 43-49.	2.4	22
83	TeX4 (X = F, Cl, Br) as Lewis acids â€“ complexes with soft thio- and seleno-ether ligands. Dalton Transactions, 2012, 41, 10988.	3.3	22
84	Complexes of aluminium, gallium and indium trifluorides with neutral oxygen donor ligands: Synthesis, properties and reactions. Polyhedron, 2016, 106, 65-74.	2.2	22
85	Pressureâ€Tuneable Visibleâ€Range Band Gap in the Ionic Spinel Tin Nitride. Angewandte Chemie - International Edition, 2018, 57, 11623-11628.	13.8	22
86	Exploration of the Smallest Diameter Tin Nanowires Achievable with Electrodeposition: Sub 7 nm Sn Nanowires Produced by Electrodeposition from a Supercritical Fluid. Nano Letters, 2018, 18, 941-947.	9.1	21
87	Large-Area Electrodeposition of Few-Layer MoS₂ on Graphene for 2D Material Heterostructures. ACS Applied Materials & Interfaces, 2020, 12, 49786-49794.	8.0	21
88	Vanadium(IV) and Oxidovanadium(IV) and -(V) Complexes with Soft Thioether Coordination â€“ Synthesis, Spectroscopic and Structural Studies. European Journal of Inorganic Chemistry, 2007, 2007, 3655-3662.	2.0	20
89	A non-oxide solâ€“gel route to synthesise silicon imidonitride monolithic gels and high surface area aerogels. Chemical Communications, 2008, , 5304.	4.1	20
90	Preparation, Characterization, and Structural Systematics of Diphosphane and Diarsane Complexes of Indium(III) Halides. Inorganic Chemistry, 2008, 47, 9691-9700.	4.0	20

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91	Solution Phase Preparative Routes to Nitride Morphologies of Interest in Catalysis. Topics in Catalysis, 2009, 52, 1472-1481.	2.8	20
92	Supercritical Chemical Fluid Deposition of InP and InAs. Chemistry of Materials, 2010, 22, 4246-4253.	6.7	18
93	Chalcogenoether complexes of Nb(<scp>v</scp>) thio- and seleno-halides as single source precursors for low pressure chemical vapour deposition of NbS₂ and NbSe₂ thin films. Dalton Transactions, 2017, 46, 9824-9832.	3.3	18
94	Synthesis and properties of MoCl₄complexes with thio- and seleno-ethers and their use for chemical vapour deposition of MoSe₂and MoS₂films. Dalton Transactions, 2018, 47, 2406-2414.	3.3	18
95	A Versatile Precursor System for Supercritical Fluid Electrodeposition of Mainâ€Group Materials. Chemistry - A European Journal, 2016, 22, 302-309.	3.3	17
96	In situ phase behaviour of a high capacity LiCoPO₄ electrode during constant or pulsed charge of a lithium cell. Chemical Communications, 2016, 52, 14169-14172.	4.1	17
97	Structure of Î²-SrRh2O4 from X-ray and neutron powder diffraction. European Journal of Solid State and Inorganic Chemistry, 1998, 35, 679-687.	0.5	16
98	Nitrides from solid state metathesis reactions: synthesis and mechanistics. Journal of Materials Processing Technology, 1998, 77, 103-107.	6.3	16
99	High pressure polymorphism of Î²-TaON. Dalton Transactions, 2014, 43, 9647-9654.	3.3	16
100	Thermoelectric Properties of Bismuth Telluride Thin Films Electrodeposited from a Nonaqueous Solution. ACS Omega, 2020, 5, 14679-14688.	3.5	16
101	Electrodeposition of MoS₂ from Dichloromethane. Journal of the Electrochemical Society, 2020, 167, 106511.	2.9	16
102	Hydride-phosphoniodithiocarboxylate/ phosphonium-betaine isomerism in Cy3PCS2 complexes of ruthenium. Journal of Organometallic Chemistry, 1993, 447, C7-C9.	1.8	15
103	Nanoscale arrays of antimony telluride single crystals by selective chemical vapor deposition. Scientific Reports, 2016, 6, 27593.	3.3	15
104	Compositionally tunable ternary Bi₂(Se_{1â^'x}Te_x)₃ and (Bi_{1â^'y}Sb_y)₂Te₃ thin films via low pressure chemical vapour deposition. Journal of Materials Chemistry C, 2018, 6, 7734-7739.	5.5	15
105	Transition Metal Pnictide Synthesis: Self Propagating Reactions Involving Sodium Arsenide, Antimonide and Bismuthide. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 1994, 49, 477-482.	0.7	14
106	Solid state metathesis routes to metal nitrides; use of strontium and barium nitrides as reagents and dilution effects. Polyhedron, 1997, 16, 3635-3640.	2.2	14
107	Metastable phase transitions and structural transformations in solid-state materials at high pressure. Phase Transitions, 2007, 80, 1003-1032.	1.3	14
108	Effects of ammonolysis and of solâ€“gel titanium oxide nitride coating on carbon fibres for use in flexible supercapacitors. Journal of Materials Chemistry A, 2018, 6, 5208-5216.	10.3	14

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109	Towards a 3D GeSbTe phase change memory with integrated selector by non-aqueous electrodeposition. Faraday Discussions, 2019, 213, 339-355.	3.2	14
110	SYNTHESIS OF METAL SILICIDE POWDERS BY THERMOLYSIS OF METAL CHLORIDES WITH MAGNESIUM SILICIDE. Phosphorus, Sulfur and Silicon and the Related Elements, 1995, 101, 47-55.	1.6	13
111	Organometallic Macrocycle Chemistry. 4. Synthesis and Reactions of [RuX(CS)(PPh3)([9]aneS3)]ClO4 (X) Tj ETQq1 1 0.784314 rgBT /C	4.0	13
112	An unusual magnetic structure in Sr2FeO3F and magnetic structures of K2NiF4-type iron(iii) oxides and oxide halides, including the cobalt substituted series Sr2Fe1â€“xCoxO3Cl. Journal of Materials Chemistry, 2005, 15, 3093.	6.7	13
113	Solvothermal synthesis of group 5 and 6 nitrides via reactions using LiNH2 and ammonia nitrogen sources. Dalton Transactions, 2010, 39, 6092.	3.3	13
114	On the mechanism of carbon nanotube formation: the role of the catalyst. Journal of Physics Condensed Matter, 2011, 23, 394201.	1.8	13
115	Thioether complexes of WSCl₄, WOCl₄ and WSCl₃ and evaluation of thiochloride complexes as CVD precursors for WS₂ thin films. Dalton Transactions, 2020, 49, 2496-2504.	3.3	13
116	High-throughput methods to optically functional oxide and oxideâ€“nitride materials. Journal of Materials Chemistry, 2005, 15, 1528-1536.	6.7	12
117	Supercritical Fluid Electrodeposition of Elemental Germanium onto Titanium Nitride Substrates. Journal of the Electrochemical Society, 2015, 162, D619-D624.	2.9	12
118	Phase-Change Memory Properties of Electrodeposited Ge-Sb-Te Thin Film. Nanoscale Research Letters, 2015, 10, 432.	5.7	12
119	Synthesis and methane cracking activity of a silicon nitride supported vanadium nitride nanoparticle composite. Dalton Transactions, 2017, 46, 8782-8787.	3.3	12
120	Synthesis of Hard Carbon-TiN/TiC Composites by Reacting Cellulose with TiCl₄ Followed by Carbothermal Nitridation/Reduction. Inorganic Chemistry, 2019, 58, 5776-5786.	4.0	12
121	A synthesis of bismuth(III) phosphide: the first binary phosphide of bismuth. Journal of the Chemical Society Chemical Communications, 1994, , 1987.	2.0	11
122	UV-visible spectroscopic studies of group 8â€“10 metal trifluorides. Journal of Fluorine Chemistry, 1997, 84, 161-165.	1.7	11
123	Periodate and tellurate complexes of palladium.. Inorganica Chimica Acta, 2003, 343, 90-94.	2.4	11
124	NbS2 thin films by atmospheric pressure chemical vapour deposition and the formation of a new 1T polytype. Thin Solid Films, 2004, 469-470, 495-499.	1.8	11
125	Niobium tetrahalide complexes with neutral diphosphine ligands. Dalton Transactions, 2016, 45, 8192-8200.	3.3	11
126	Surface modification and porosimetry of vertically aligned hexagonal mesoporous silica films. RSC Advances, 2016, 6, 113432-113441.	3.6	11

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127	Electrodeposition of tin nanowires from a dichloromethane based electrolyte. RSC Advances, 2018, 8, 24013-24020.	3.6	11
128	The Mixed Valence Structure of â€œR-NiF3â€• Zeitschrift Fur Anorganische Und Allgemeine Chemie, 1998, 624, 1982-1988.	1.2	10
129	Periodates of Tetravalent Titanium, Zirconium, Hafnium and Thorium: Synthesis, Characterisation and EXAFS Study. European Journal of Inorganic Chemistry, 2005, 2005, 3365-3370.	2.0	10
130	Chemical Vapor Deposition of GaP and GaAs Thin Films From [^{<i>n</i>}Bu₂Ga(Î¼-<i>E</i>^{<i>t</i>}Bu₂)₂Ga^{<i>n</i>}Bu<(<i>E</i> = P or As) and Ga(P^{<i>t</i>}Bu₂)₃. Chemistry of Materials, 2011, 23, 5217-5222.	6.7	10
131	Templated Non-Oxide Sol-Gel Preparation of Well-Ordered Macroporous (inverse opal) Ta₃N₅ Films. Inorganic Chemistry, 2013, 52, 9994-9999.	4.0	10
132	Solâ€“gel preparation of low oxygen content, high surface area silicon nitride and imidonitride materials. Dalton Transactions, 2016, 45, 5765-5774.	3.3	10
133	Solâ€“gel preparation of well-adhered films and long range ordered inverse opal films of BaTiO3 and Bi2Ti2O7. Materials Research Bulletin, 2016, 74, 234-240.	5.2	10
134	Covalency is Frustrating: La₂Sn₂O₇ and the Nature of Bonding in Pyrochlores under High Pressureâ€“Temperature Conditions. Inorganic Chemistry, 2018, 57, 15051-15061.	4.0	10
135	The reactivity of lattice nitrogen within the Ni2Mo3N and NiCoMo3N phases. Materials Research Bulletin, 2019, 118, 110519.	5.2	10
136	Citrate-gel preparation and ammonia synthesis activity of compounds in the quaternary (Ni,M)₂Mo₃N (M = Cu or Fe) systems. Dalton Transactions, 2019, 48, 16786-16792.	3.3	10
137	Improved thermoelectric performance of Bi2Se3 alloyed Bi2Te3 thin films via low pressure chemical vapour deposition. Journal of Alloys and Compounds, 2020, 848, 156523.	5.5	10
138	A La and Nb co-doped BaTiO₃ film with positive-temperature-coefficient of resistance for thermal protection of batteries. Journal of Materials Chemistry A, 2022, 10, 11587-11599.	10.3	10
139	Low-energy initiated routes to crystalline metal phosphides and arsenides. Journal of Materials Science Letters, 1994, 13, 1-2.	0.5	9
140	Silicon imidonitride aerogel exhibiting macro- and meso-dual porosity. Microporous and Mesoporous Materials, 2012, 156, 196-201.	4.4	9
141	Electrodeposition of Protocrystalline Germanium from Supercritical Difluoromethane. ChemElectroChem, 2016, 3, 726-733.	3.4	9
142	Electrodeposition of a Functional Solid State Memory Material: Germanium Antimony Telluride from a Non-Aqueous Plating Bath. Journal of the Electrochemical Society, 2018, 165, D557-D567.	2.9	9
143	Complexes of WOCl4 and WSCl4 with neutral N- and O-donor ligands: Synthesis, spectroscopy and structures. Polyhedron, 2019, 162, 14-19.	2.2	9
144	Using GISAXS to Detect Correlations between the Locations of Gold Particles Electrodeposited from an Aqueous Solution. Langmuir, 2020, 36, 4432-4438.	3.5	9

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145	Selective Chemical Vapor Deposition Approach for Sb₂Te₃ Thin Film Micro-thermoelectric Generators. ACS Applied Energy Materials, 2020, 3, 5840-5846.	5.1	9
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