Claire Carmalt

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/8037429/publications.pdf

Version: 2024-02-01

317 papers	13,098 citations	25034 57 h-index	38395 95 g-index
334 all docs	334 docs citations	334 times ranked	14346 citing authors

#	Article	IF	Citations
1	Robust self-cleaning surfaces that function when exposed to either air or oil. Science, 2015, 347, 1132-1135.	12.6	1,494
2	n-Type doped transparent conducting binary oxides: an overview. Journal of Materials Chemistry C, 2016, 4, 6946-6961.	5.5	287
3	Bismuth oxyhalides: synthesis, structure and photoelectrochemical activity. Chemical Science, 2016, 7, 4832-4841.	7.4	252
4	Self-Driven One-Step Oil Removal from Oil Spill on Water via Selective-Wettability Steel Mesh. ACS Applied Materials & Interfaces, 2014, 6, 19858-19865.	8.0	226
5	Aerosol-assisted delivery of precursors for chemical vapour deposition: expanding the scope of CVD for materials fabrication. Dalton Transactions, 2013, 42, 9406.	3.3	224
6	Multiâ€Scale Investigations of Îˆâ€Ni_{0.25}V₂O₅Â·nH₂O Cathode Materials in Aqueous Zincâ€ion Batteries. Advanced Energy Materials, 2020, 10, 2000058.	19.5	173
7	Super-robust superhydrophobic concrete. Journal of Materials Chemistry A, 2017, 5, 14542-14550.	10.3	170
8	Gas Sensing with Nano-Indium Oxides (In₂O₃) Prepared via Continuous Hydrothermal Flow Synthesis. Langmuir, 2012, 28, 1879-1885.	3.5	160
9	Table Salt as a Template to Prepare Reusable Porous PVDFâ€“MWCNT Foam for Separation of Immiscible Oils/Organic Solvents and Corrosive Aqueous Solutions. Advanced Functional Materials, 2017, 27, 1702926.	14.9	160
10	Atmospheric pressure chemical vapour deposition of SnSe and SnSe2 thin films on glass. Thin Solid Films, 2008, 516, 4750-4757.	1.8	156
11	Creating superhydrophobic mild steel surfaces for water proofing and oilâ€“water separation. Journal of Materials Chemistry A, 2014, 2, 11628-11634.	10.3	153
12	Solution based CVD of main group materials. Chemical Society Reviews, 2016, 45, 1036-1064.	38.1	141
13	A Nanojunction Polymer Photoelectrode for Efficient Charge Transport and Separation. Angewandte Chemie - International Edition, 2017, 56, 8221-8225.	13.8	130
14	Atmospheric pressure chemical vapor deposition of WSe2thin films on glassâ€”highly hydrophobic sticky surfaces. Journal of Materials Chemistry, 2006, 16, 122-127.	6.7	128
15	Creating robust superamphiphobic coatings for both hard and soft materials. Journal of Materials Chemistry A, 2015, 3, 20999-21008.	10.3	123
16	Tungsten Doped TiO2 with Enhanced Photocatalytic and Optoelectrical Properties via Aerosol Assisted Chemical Vapor Deposition. Scientific Reports, 2015, 5, 10952.	3.3	122
17	Large-Area Fabrication of Droplet Pancake Bouncing Surface and Control of Bouncing State. ACS Nano, 2017, 11, 9259-9267.	14.6	118
18	Nature of the bonding in a carbeneâ€“phosphinidene: a main group analogue of a Fischer carbene complex? Isolation and characterisation of a bis(borane) adduct. Chemical Communications, 1997, , 981-982.	4.1	114

#	Article	IF	Citations
19	Water Oxidation Kinetics of Accumulated Holes on the Surface of a TiO₂ Photoanode: A Rate Law Analysis. ACS Catalysis, 2017, 7, 4896-4903.	11.2	105
20	The reactions of stable nucleophilic carbenes with main group compounds. Advances in Inorganic Chemistry, 2000, 50, 1-32.	1.0	103
21	CVD and precursor chemistry of transition metal nitrides. Coordination Chemistry Reviews, 2013, 257, 2073-2119.	18.8	102
22	Highly conductive and transparent gallium doped zinc oxide thin films via chemical vapor deposition. Scientific Reports, 2020, 10, 638.	3.3	102
23	Laser-generated ultrasound with optical fibres using functionalised carbon nanotube composite coatings. Applied Physics Letters, 2014, 104, .	3.3	101
24	Cyclic phosphenium and arsenium cations with 6Ï€ electrons and related systems. Chemical Communications, 1997, , 2095-2096.	4.1	100
25	Efficiently texturing hierarchical superhydrophobic fluoride-free translucent films by AACVD with excellent durability and self-cleaning ability. Journal of Materials Chemistry A, 2018, 6, 17633-17641.	10.3	99
26	Enhanced electrical properties of antimony doped tin oxide thin films deposited via aerosol assisted chemical vapour deposition. Journal of Materials Chemistry C, 2018, 6, 7257-7266.	5.5	97
27	Designing durable and flexible superhydrophobic coatings and its application in oil purification. Journal of Materials Chemistry A, 2016, 4, 4107-4116.	10.3	94
28	Solution Processing Route to Multifunctional Titania Thin Films: Highly Conductive and Photcatalytically Active Nb:TiO₂. Advanced Functional Materials, 2014, 24, 5075-5085.	14.9	93
29	Fabrication of robust superhydrophobic surfaces via aerosol-assisted CVD and thermo-triggered healing of superhydrophobicity by recovery of roughness structures. Journal of Materials Chemistry A, 2019, 7, 17604-17612.	10.3	91
30	High-efficiency bubble transportation in an aqueous environment on a serial wedge-shaped wettability pattern. Journal of Materials Chemistry A, 2019, 7, 13567-13576.	10.3	90
31	A simple, low-cost CVD route to thin films of BiFeO3 for efficient water photo-oxidation. Journal of Materials Chemistry A, 2014, 2, 2922.	10.3	89
32	Transforming a Simple Commercial Glue into Highly Robust Superhydrophobic Surfaces via Aerosol-Assisted Chemical Vapor Deposition. ACS Applied Materials & Interfaces, 2017, 9, 42327-42335.	8.0	85
33	A superhydrophilic cement-coated mesh: an acid, alkali, and organic reagent-free material for oil/water separation. Nanoscale, 2018, 10, 1920-1929.	5.6	81
34	Synthesis and Structures of Intramolecularly Base-Coordinated Group 15 Aryl Halides. Inorganic Chemistry, 1997, 36, 2770-2776.	4.0	78
35	Scalable route to CH₃NH₃PbI₃ perovskite thin films by aerosol assisted chemical vapour deposition. Journal of Materials Chemistry A, 2015, 3, 9071-9073.	10.3	75
36	Super-durable, non-fluorinated superhydrophobic free-standing items. Journal of Materials Chemistry A, 2018, 6, 357-362.	10.3	75

#	Article	IF	Citations
37	Single-source precursors to gallium and indium oxide thin films. Coordination Chemistry Reviews, 2011, 255, 1293-1318.	18.8	73
38	Antimicrobial activity of copper and copper(<scp>i</scp>) oxide thin films deposited via aerosol-assisted CVD. Journal of Materials Chemistry B, 2014, 2, 2855-2860.	5.8	73
39	Synthesis and Structures of Intramolecularly Base-Coordinated Aryl Group 15 Compounds. Inorganic Chemistry, 1996, 35, 6179-6183.	4.0	72
40	Underwater Spontaneous Pumpless Transportation of Nonpolar Organic Liquids on Extreme Wettability Patterns. ACS Applied Materials & Interfaces, 2016, 8, 2942-2949.	8.0	72
41	Aluminium/gallium, indium/gallium, and aluminium/indium co-doped ZnO thin films deposited via aerosol assisted CVD. Journal of Materials Chemistry C, 2018, 6, 588-597.	5.5	72
42	Origin of High Mobility in Molybdenum-Doped Indium Oxide. Chemistry of Materials, 2015, 27, 2788-2796.	6.7	71
43	Robust platform for water harvesting and directional transport. Journal of Materials Chemistry A, 2018, 6, 5635-5643.	10.3	71
44	Molecular precursor approach to metal oxide and pnictide thin films. Coordination Chemistry Reviews, 2013, 257, 3202-3221.	18.8	69
45	Gallium(III) and indium(III) alkoxides and aryloxides. Coordination Chemistry Reviews, 2006, 250, 682-709.	18.8	68
46	Atmospheric pressure chemical vapour deposition of WS2 thin films on glass. Polyhedron, 2003, 22, 1499-1505.	2.2	67
47	Gallium Oxide Thin Films from the Atmospheric Pressure Chemical Vapor Deposition Reaction of Gallium Trichloride and Methanol. Chemistry of Materials, 2004, 16, 2489-2493.	6.7	67
48	Recent advances in low oxidation state aluminium chemistry. Chemical Science, 2020, 11, 6942-6956.	7.4	66
49	Atmospheric pressure chemical vapour deposition of vanadium diselenide thin films. Applied Surface Science, 2007, 253, 6041-6046.	6.1	64
50	Resonant doping for high mobility transparent conductors: the case of Mo-doped In₂O₃. Materials Horizons, 2020, 7, 236-243.	12.2	64
51	A novel bone cement impregnated with silver–tiopronin nanoparticles: its antimicrobial, cytotoxic, and mechanical properties. International Journal of Nanomedicine, 2013, 8, 2227.	6.7	62
52	A Rapid and Robust Diagnostic for Liver Fibrosis Using a Multichannel Polymer Sensor Array. Advanced Materials, 2018, 30, e1800634.	21.0	62
53	Tantalum and Titanium doped In₂O₃ Thin Films by Aerosol-Assisted Chemical Vapor Deposition and their Gas Sensing Properties. Chemistry of Materials, 2012, 24, 2864-2871.	6.7	61
54	Defected vanadium bronzes as superb cathodes in aqueous zinc-ion batteries. Nanoscale, 2020, 12, 20638-20648.	5.6	61

#	Article	IF	Citations
55	Cationic Complexes of Antimony(III) and Bismuth(III) Stabilized by Intra- or Intermolecular Coordination. Organometallics, 1997, 16, 3597-3600.	2.3	60
56	Synthesis of Titanium(IV) Guanidinate Complexes and the Formation of Titanium Carbonitride via Low-Pressure Chemical Vapor Deposition. Inorganic Chemistry, 2005, 44, 615-619.	4.0	60
57	Amido compounds of gallium and indium. Coordination Chemistry Reviews, 2001, 223, 217-264.	18.8	59
58	Aerosol Assisted Chemical Vapor Deposition of In₂O₃ Films from Me₃In and Donor Functionalized Alcohols. Inorganic Chemistry, 2007, 46, 9473-9480.	4.0	59
59	MOCVD of crystalline Bi2O3 thin films using a single-source bismuth alkoxide precursor and their use in photodegradation of water. Journal of Materials Chemistry, 2010, 20, 7881.	6.7	59
60	Aerosol-Assisted Chemical Vapor Deposition of Transparent Conductive Galliumâ^'Indiumâ^'Oxide Films. Chemistry of Materials, 2011, 23, 1719-1726.	6.7	59
61	An examination of the structures of iodosylbenzene (PhIO) and the related imido compound, PhINSO2-4-Me-C6H4, by X-ray powder diffraction and EXAFS (extended X-ray absorption fine structure) spectroscopy. Journal of the Chemical Society Chemical Communications, 1994, .	2.0	58
62	Optimized Atmospheric-Pressure Chemical Vapor Deposition Thermochromic VO₂ Thin Films for Intelligent Window Applications. ACS Omega, 2017, 2, 1040-1046.	3.5	56
63	Robust Superhydrophobic Conical Pillars from Syringe Needle Shape to Straight Conical Pillar Shape for Droplet Pancake Bouncing. ACS Applied Materials & Interfaces, 2019, 11, 45345-45353.	8.0	56
64	Aerosol assisted chemical vapour deposition of hydrophobic TiO2â€“SnO2 composite film with novel microstructure and enhanced photocatalytic activity. Journal of Materials Chemistry A, 2013, 1, 6271.	10.3	55
65	Visible-light driven water splitting over BiFeO₃photoanodes grown via the LPCVD reaction of [Bi(O^tBu)₃] and [Fe(O^tBu)₃]₂and enhanced with a surface nickel oxygen evolution catalyst. Nanoscale, 2015, 7, 16343-16353.	5.6	55
66	Chemical Vapor Deposition Synthesis and Optical Properties of Nb₂O₅ Thin Films with Hybrid Functional Theoretical Insight into the Band Structure and Band Gaps. ACS Applied Materials & Interfaces, 2017, 9, 18031-18038.	8.0	54
67	Atmospheric Pressure CVD of Molybdenum Diselenide Films on Glass. Chemical Vapor Deposition, 2006, 12, 692-698.	1.3	53
68	Combinatorial Atmospheric Pressure Chemical Vapor Deposition of Graded TiO₂â€“VO₂ Mixed-Phase Composites and Their Dual Functional Property as Self-Cleaning and Photochromic Window Coatings. ACS Combinatorial Science, 2013, 15, 309-319.	3.8	53
69	Transparent superhydrophobic PTFE films via one-step aerosol assisted chemical vapor deposition. RSC Advances, 2017, 7, 29275-29283.	3.6	52
70	Antimicrobial Properties of Copper-Doped ZnO Coatings under Darkness and White Light Illumination. ACS Omega, 2017, 2, 4556-4562.	3.5	52
71	Cationic, arylbismuth(III) complexes of the form [BiR2L2]+ and [BiRL4]2+ where L is a neutral two-electron donor ligand. Journal of the Chemical Society Dalton Transactions, 1996, , 443.	1.1	51
72	PbO-Modified TiO₂ Thin Films: A Route to Visible Light Photocatalysts. Langmuir, 2014, 30, 624-630.	3.5	50

#	Article	IF	Citations
73	Resonant Ta Doping for Enhanced Mobility in Transparent Conducting SnO₂. Chemistry of Materials, 2020, 32, 1964-1973.	6.7	50
74	The Effect of Film Thickness on the Gas Sensing Properties of Ultra-Thin TiO2 Films Deposited by Atomic Layer Deposition. Sensors, 2018, 18, 735.	3.8	49
75	Structural Studies on some Iodoantimonate and Iodobismuthate Anions. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 1995, 621, 47-56.	1.2	48
76	Atmospheric Pressure Chemical Vapour Deposition of NbSe2 Thin Films on Glass. European Journal of Inorganic Chemistry, 2006, 2006, 1255-1259.	2.0	48
77	Transparent conducting n-type ZnO:Sc â€“ synthesis, optoelectronic properties and theoretical insight. Journal of Materials Chemistry C, 2017, 5, 7585-7597.	5.5	46
78	Superhydrophilicâ€“superhydrophobic patterned surfaces on glass substrate for water harvesting. Journal of Materials Science, 2020, 55, 498-508.	3.7	46
79	Does a Photocatalytic Synergy in an Anataseâ€“Rutile TiO₂ Composite Thinâ€Film Exist?. Chemistry - A European Journal, 2012, 18, 13048-13058.	3.3	45
80	Water droplets bouncing on superhydrophobic soft porous materials. Journal of Materials Chemistry A, 2014, 2, 12177-12184.	10.3	45
81	Microwave-Assisted Synthesis and Processing of Al-Doped, Ga-Doped, and Al, Ga Codoped ZnO for the Pursuit of Optimal Conductivity for Transparent Conducting Film Fabrication. ACS Sustainable Chemistry and Engineering, 2017, 5, 4820-4829.	6.7	45
82	Molecular precursors to gallium oxide thin films. Dalton Transactions, 2004, , 3475.	3.3	44
83	Gallium oxide thin films from the AACVD of [Ga(NMe2)3]2 and donor functionalised alcohols. Dalton Transactions, 2008, , 591.	3.3	44
84	Combinatorial Atmospheric Pressure Chemical Vapor Deposition of F:TiO₂; the Relationship between Photocatalysis and Transparent Conducting Oxide Properties. Advanced Functional Materials, 2014, 24, 1758-1771.	14.9	44
85	Interstitial Boron-Doped TiO₂ Thin Films: The Significant Effect of Boron on TiO₂ Coatings Grown by Atmospheric Pressure Chemical Vapor Deposition. ACS Applied Materials & Interfaces, 2016, 8, 25024-25029.	8.0	44
86	Scaling aerosol assisted chemical vapour deposition: Exploring the relationship between growth rate and film properties. Materials and Design, 2017, 129, 116-124.	7.0	44
87	Bonding of Phosphinidene or Arsenidene Fragments to a Fluorenylidene. Interrelationships between Phosphaalkenes or Arsaalkenes and Donorâ^Acceptor Complexes. Inorganic Chemistry, 1997, 36, 3741-3744.	4.0	43
88	Synthesis of TiN thin films from titanium imido complexes. Journal of Materials Chemistry, 2003, 13, 84-87.	6.7	43
89	Alâ€, Gaâ€, and Inâ€doped ZnO thin films via aerosol assisted CVD for use as transparent conducting oxides. Physica Status Solidi (A) Applications and Materials Science, 2016, 213, 1346-1352.	1.8	43
90	The Crystalline Sponge Method: A Systematic Study of the Reproducibility of Simple Aromatic Molecule Encapsulation and Guestâ€“Host Interactions. Crystal Growth and Design, 2016, 16, 3465-3472.	3.0	43

#	Article	IF	Citations
91	Underoil Superhydrophilic Metal Felt Fabricated by Modifying Ultrathin Fumed Silica Coatings for the Separation of Water-in-Oil Emulsions. ACS Applied Materials & Interfaces, 2020, 12, 27663-27671.	8.0	43
92	A cationic, four-coordinate, ten-electron bismuth(III) complex: Synthesis and structure of [BiPh2(HMPA)2][BF4] (HMPA = hexamethylphosphoramide). Journal of Organometallic Chemistry, 1993, 460, C22-C24.	1.8	42
93	Tetrahydrofuran Adducts of Bismuth Trichloride and Bismuth Tribromide. Inorganic Chemistry, 1996, 35, 3709-3712.	4.0	42
94	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
95	Transparent conductive aluminium and fluorine co-doped zinc oxide films via aerosol assisted chemical vapour deposition. RSC Advances, 2014, 4, 49723-49728.	3.6	42
96	Aerosol assisted chemical vapor deposition of conductive and photocatalytically active tantalum doped titanium dioxide films. Journal of Materials Chemistry A, 2014, 2, 12849.	10.3	42
97	Low-Cost One-Step Fabrication of Highly Conductive ZnO:Cl Transparent Thin Films with Tunable Photocatalytic Properties via Aerosol-Assisted Chemical Vapor Deposition. ACS Applied Electronic Materials, 2019, 1, 1408-1417.	4.3	41
98	Aerosol-assisted chemical vapour deposition of transparent superhydrophobic film by using mixed functional alkoxysilanes. Scientific Reports, 2019, 9, 7549.	3.3	41
99	Monomeric Titanium(IV) Azides as a New Route to Titanium Nitride. Inorganic Chemistry, 1997, 36, 3108-3112.	4.0	39
100	Titanium sulfide thin films from the aerosol-assisted chemical vapour deposition of [Ti(SBut)4]. Journal of Materials Chemistry, 2004, 14, 830.	6.7	39
101	Plasmonic Gold Nanostars Incorporated into Highâ€Efficiency Perovskite Solar Cells. ChemSusChem, 2017, 10, 3750-3753.	6.8	39
102	The effect of solvent on Al-doped ZnO thin films depositedviaaerosol assisted CVD. RSC Advances, 2018, 8, 33164-33173.	3.6	39
103	Durable fire retardant, superhydrophobic, abrasive resistant and air/UV stable coatings. Journal of Colloid and Interface Science, 2021, 582, 301-311.	9.4	39
104	Slippery Liquid Infused Porous TiO₂/SnO₂ Nanocomposite Thin Films via Aerosol Assisted Chemical Vapor Deposition with Anti-Icing and Fog Retardant Properties. ACS Applied Materials & Interfaces, 2019, 11, 41804-41812.	8.0	38
105	Humidity-Tolerant Ultrathin NiO Gas-Sensing Films. ACS Sensors, 2020, 5, 1389-1397.	7.8	38
106	Syntheses, X-ray structures and CVD studies of diorganoalkoxogallanes. Journal of Organometallic Chemistry, 2008, 693, 1787-1796.	1.8	36
107	Transparent conducting oxide thin films of Si-doped ZnO prepared by aerosol assisted CVD. RSC Advances, 2017, 7, 10806-10814.	3.6	36
108	Titanium imido complexes as precursors to titanium nitride. Dalton Transactions RSC, 2002, , 4055-4059.	2.3	35

#	Article	IF	Citations
109	Synthesis of Group 13 Sesquialkoxides and Their Application as Precursors to Crystalline Oxide Films. Organometallics, 2007, 26, 403-407.	2.3	35
110	Structural studies on aryl bismuth halides and halogenoanions. Part 4. Neutral Lewis base adducts of aryl bismuth dibromide and diaryl bismuth bromide compounds. Journal of Organometallic Chemistry, 1995, 496, 59-67.	1.8	34
111	Synthesis and Characterization of Gallium Silylamido Complexes. Inorganic Chemistry, 2001, 40, 6035-6038.	4.0	34
112	Photocatalytic activity of needle-like TiO2/WO3â˜x thin films prepared by chemical vapour deposition. Journal of Photochemistry and Photobiology A: Chemistry, 2012, 239, 60-64.	3.9	34
113	Influencing FTO thin film growth with thin seeding layers: a route to microstructural modification. Journal of Materials Chemistry C, 2015, 3, 9359-9368.	5.5	34
114	Photocatalytic and electrically conductive transparent Cl-doped ZnO thin films via aerosol-assisted chemical vapour deposition. Journal of Materials Chemistry A, 2018, 6, 12682-12692.	10.3	34
115	The dual source APCVD of titanium nitride thin films from reaction of hexamethyldisilazane and titanium tetrachloride. Journal of Materials Chemistry, 2002, 12, 1906-1909.	6.7	33
116	Group 13 Î²-Ketoiminate Compounds: Gallium Hydride Derivatives As Molecular Precursors to Thin Films of Ga2O3. Inorganic Chemistry, 2012, 51, 6385-6395.	4.0	33
117	Boosting heterojunction interaction in electrochemical construction of MoS2 quantum dots@TiO2 nanotube arrays for highly effective photoelectrochemical performance and electrocatalytic hydrogen evolution. Electrochemistry Communications, 2018, 93, 152-157.	4.7	33
118	Phosphorus doped SnO₂ thin films for transparent conducting oxide applications: synthesis, optoelectronic properties and computational models. Chemical Science, 2018, 9, 7968-7980.	7.4	33
119	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
120	Aerosol-Assisted Chemical Vapor Deposition of NbS2 and TaS2 Thin Films from Pentakis(dimethylamido)metal Complexes and 2-Methylpropanethiol. European Journal of Inorganic Chemistry, 2005, 2005, 4179-4185.	2.0	32
121	A comparison of the gas sensing properties of solid state metal oxide semiconductor gas sensors produced by atmospheric pressure chemical vapour deposition and screen printing. Measurement Science and Technology, 2007, 18, 190-200.	2.6	32
122	TiO2-based transparent conducting oxides; the search for optimum electrical conductivity using a combinatorial approach. Journal of Materials Chemistry C, 2013, 1, 6335.	5.5	32
123	Combinatorial aerosol assisted chemical vapour deposition of a photocatalytic mixed SnO₂/TiO₂ thin film. Journal of Materials Chemistry A, 2014, 2, 5108-5116.	10.3	32
124	Aerosols: A Sustainable Route to Functional Materials. Chemistry - A European Journal, 2017, 23, 15543-15552.	3.3	32
125	TiO2 nanotube arrays decorated with Au and Bi2S3 nanoparticles for efficient Fe3+ ions detection and dye photocatalytic degradation. Journal of Materials Science and Technology, 2020, 39, 28-38.	10.7	32
126	Fluorine-Free Transparent Superhydrophobic Nanocomposite Coatings from Mesoporous Silica. Langmuir, 2020, 36, 13426-13438.	3.5	31

#	Article	IF	Citations
127	Synthesis of Zirconium Guanidinate Complexes and the Formation of Zirconium Carbonitride via Low Pressure CVD. Organometallics, 2009, 28, 1838-1844.	2.3	30
128	Synthesis and X-Ray Crystal Structure of a Polymeric Iodobismuthate Anion. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 1995, 50, 1591-1596.	0.7	29
129	Solution Processing of GaAs Thin Films for Photovoltaic Applications. Chemistry of Materials, 2014, 26, 4419-4424.	6.7	29
130	Effect of pretreatment temperature on the photocatalytic activity of microwave irradiated porous nanocrystalline ZnO. New Journal of Chemistry, 2015, 39, 321-332.	2.8	29
131	A Nanojunction Polymer Photoelectrode for Efficient Charge Transport and Separation. Angewandte Chemie, 2017, 129, 8333-8337.	2.0	29
132	High Defect Nanoscale ZnO Films with Polar Facets for Enhanced Photocatalytic Performance. ACS Applied Nano Materials, 2019, 2, 2881-2889.	5.0	29
133	Tin phosphide coatings from the atmospheric pressure chemical vapour deposition of SnX4 (X=Cl or) Tj ETQq1 1 0.784314 rgBT /Ove	2.2	28
134	Atmospheric pressure chemical vapour deposition of TiS2 thin films on glass. Polyhedron, 2003, 22, 1263-1269.	2.2	28
135	Dual-source chemical vapour deposition of titanium sulfide thin films from tetrakisdimethylamidotitanium and sulfur precursors. Journal of Materials Chemistry, 2004, 14, 3474.	6.7	28
136	Single step route to highly transparent, conductive and hazy aluminium doped zinc oxide films. RSC Advances, 2018, 8, 42300-42307.	3.6	28
137	Heterojunction Î±â€Fe₂O₃/ZnO Films with Enhanced Photocatalytic Properties Grown by Aerosolâ€Assisted Chemical Vapour Deposition. Chemistry - A European Journal, 2019, 25, 11337-11345.	3.3	28
138	Molecular Complexes Featuring Unsupported Dispersion-Enhanced Aluminumâ€“Copper and Galliumâ€“Copper Bonds. Journal of the American Chemical Society, 2020, 142, 19874-19878.	13.7	28
139	Zn and N Codoped TiO₂ Thin Films: Photocatalytic and Bactericidal Activity. ACS Applied Materials & Interfaces, 2021, 13, 10480-10489.	8.0	28
140	Synthesis and material characterization ofÂamorphous and crystalline (Î±-) Al₂O₃via aerosol assisted chemical vapour deposition. RSC Advances, 2016, 6, 102956-102960.	3.6	27
141	Computational and Experimental Study of Ta₂O₅ Thin Films. Journal of Physical Chemistry C, 2017, 121, 202-210.	3.1	27
142	The syntheses and structures of two large iodoantimonate anions. Polyhedron, 1993, 12, 2081-2090.	2.2	26
143	Synthesis and crystal structure of the tris(pyridine) complex of gallium tris(azide). Chemical Communications, 1996, , 1453.	4.1	26
144	Inexpensive and non-toxic water repellent coatings comprising SiO₂ nanoparticles and long chain fatty acids. RSC Advances, 2018, 8, 27064-27072.	3.6	26

#	Article	IF	Citations
145	Transparent and Conductive Molybdenum-Doped ZnO Thin Films via Chemical Vapor Deposition. ACS Applied Electronic Materials, 2020, 2, 120-125.	4.3	26
146	Solid-state and solution phase metathetical synthesis of copper indium chalcogenides. Journal of Materials Chemistry, 1998, 8, 2209-2211.	6.7	25
147	Atmospheric Pressure CVD of TiSe2 Thin Films on Glass. Chemical Vapor Deposition, 2006, 12, 54-58.	1.3	25
148	Interstitial boron-doped anatase TiO₂ thin-films on optical fibres: atmospheric pressure-plasma enhanced chemical vapour deposition as the key for functional oxide coatings on temperature-sensitive substrates. Journal of Materials Chemistry A, 2017, 5, 10836-10842.	10.3	25
149	Electronic properties of antimony-doped anatase TiO₂ thin films prepared by aerosol assisted chemical vapour deposition. Journal of Materials Chemistry C, 2017, 5, 9694-9701.	5.5	25
150	Multifunctional Porous and Magnetic Silicone with High Elasticity, Durability, and Oilâ€“Water Separation Properties. Langmuir, 2018, 34, 13305-13311.	3.5	25
151	Isolation and structural characterization of novel compounds containing B4O2 rings. Polyhedron, 1997, 16, 2325-2328.	2.2	24
152	Synthesis of a Homoleptic Niobium(V) Thiolate Complex and the Preparation of Niobium Sulfide via Thio â€œSolâ^'Gelâ€•and Vapor Phase Thin-Film Experiments. Inorganic Chemistry, 2002, 41, 3668-3672.	4.0	24
153	Aerosol-assisted chemical vapour deposition of sodium fluoride thin films. Thin Solid Films, 2004, 469-470, 416-419.	1.8	24
154	Gallium and Indium Î²â€Ðiketonate Complexes: AACVD of [In(thd)₃] and the Attempted Synthesis of Gallium and Indium Bis(Î²â€diketonates). European Journal of Inorganic Chemistry, 2011, 2011, 1953-1960.	2.0	24
155	Chemically Treated 3D Printed Polymer Scaffolds for Biomineral Formation. ACS Omega, 2018, 3, 4342-4351.	3.5	24
156	Fabrication of Superhydrophobic Micro Post Array on Aluminum Substrates Using Mask Electrochemical Machining. Chinese Journal of Mechanical Engineering (English Edition), 2018, 31, .	3.7	24
157	Single-source CVD routes to titanium phosphide. Dalton Transactions RSC, 2002, , 2702-2709.	2.3	23
158	Reactivity of GaX3 with silylamines and thermal decomposition of the compounds [Cl2Ga{NH(SiMe3)}]2 and [Cl3Ga{NH(SiMe3)2}]. Dalton Transactions, 2003, , 4255.	3.3	23
159	Chemical Vapor Deposition of Niobium Disulfide Thin Films. European Journal of Inorganic Chemistry, 2004, 2004, 4470-4476.	2.0	23
160	Molecular precursors for the CVD of niobium and tantalum nitride. Polyhedron, 2005, 24, 463-468.	2.2	23
161	Octahedral coordination complexes of tellurium tetrachloride. Polyhedron, 1995, 14, 1405-1413.	2.2	22
162	Synthesis and structures of gallium alkoxides. New Journal of Chemistry, 2008, 32, 1513.	2.8	22

#	Article	IF	Citations
163	Tungsten imido complexes as precursors to tungsten carbonitride thin films. Dalton Transactions, 2008, , 5730.	3.3	22
164	The use of combinatorial aerosol-assisted chemical vapour deposition for the formation of gallium-indium-oxide thin films. Journal of Materials Chemistry, 2011, 21, 12644.	6.7	22
165	Synthesis and characterisation of novel aluminium and gallium precursors for chemical vapour deposition. New Journal of Chemistry, 2015, 39, 6585-6592.	2.8	22
166	Qualitative XANES and XPS Analysis of Substrate Effects in VO₂ Thin Films: A Route to Improving Chemical Vapor Deposition Synthetic Methods?. Journal of Physical Chemistry C, 2017, 121, 20345-20352.	3.1	22
167	Antimicrobial surfaces: A need for stewardship?. PLoS Pathogens, 2020, 16, e1008880.	4.7	22
168	A coating-free superhydrophobic sensing material for full-range human motion and microliter droplet impact detection. Chemical Engineering Journal, 2021, 410, 128418.	12.7	22
169	Titanium(IV)azido and imido complexes as potential precursors to titanium nitride. Journal of the Chemical Society Dalton Transactions, 1998, , 553-558.	1.1	21
170	Dual source APCVD synthesis of TaN and NbN thin films on glass from the reaction of MCl5 (M = Ta,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	6.7	21
171	Aerosolâ€Assisted Chemical Vapour Deposition of a Copper Gallium Oxide Spinel. ChemPlusChem, 2014, 79, 122-127.	2.8	21
172	High-Throughput Synthesis, Screening, and Scale-Up of Optimized Conducting Indium Tin Oxides. ACS Combinatorial Science, 2016, 18, 130-137.	3.8	21
173	Titanium Phosphide Coatings from the Atmospheric Pressure Chemical Vapor Deposition of TiCl4and RPH2(R =t-Bu, Ph, CyHex). Chemistry of Materials, 2002, 14, 3167-3173.	6.7	20
174	Antimony oxide thin films from the atmospheric pressure chemical vapour deposition reaction of antimony pentachloride and ethyl acetate. Polyhedron, 2006, 25, 3032-3038.	2.2	20
175	Synthetic and Structural Studies of Donor-Functionalized Alkoxy Derivatives of Gallium. Inorganic Chemistry, 2011, 50, 9491-9498.	4.0	20
176	Gallium Hydride Complexes Stabilised by Multidentate Alkoxide Ligands: Precursors to Thin Films of Ga₂O₃ at Low Temperatures. Chemistry - A European Journal, 2012, 18, 6079-6087.	3.3	20
177	Photocatalytic Oxygen Evolution from Cobalt-Modified Nanocrystalline BiFeO3 Films Grown via Low-Pressure Chemical Vapor Deposition from Î²-Diketonate Precursors. Crystal Growth and Design, 2016, 16, 3818-3825.	3.0	20
178	Aluminum Amidinates: Insights into Alkyne Hydroboration. Inorganic Chemistry, 2021, 60, 10958-10969.	4.0	20
179	Thio solâ€“gel synthesis of titanium disulfide from titanium thiolates. Journal of Materials Chemistry, 2000, 10, 2823-2826.	6.7	19
180	Atmospheric-Pressure Chemical Vapor Deposition of Group IVb Metal Phosphide Thin Films from Tetrakisdimethylamidometal Complexes and Cyclohexylphosphine. Chemistry of Materials, 2004, 16, 1120-1125.	6.7	19

#	Article	IF	Citations
181	Functional thin film coatings incorporating gold nanoparticles in a transparent conducting fluorine doped tin oxide matrix. Journal of Materials Chemistry C, 2015, 3, 1118-1125.	5.5	19
182	A single-source precursor approach to solution processed indium arsenide thin films. Journal of Materials Chemistry C, 2016, 4, 6761-6768.	5.5	19
183	Superoleophobic surfaces on stainless steel substrates obtained by chemical bath deposition. Micro and Nano Letters, 2017, 12, 76-81.	1.3	19
184	n-Type conducting P doped ZnO thin films via chemical vapor deposition. RSC Advances, 2020, 10, 34527-34533.	3.6	19
185	Production of an EP/PDMS/SA/AlZnO Coated Superhydrophobic Surface through an Aerosol-Assisted Chemical Vapor Deposition Process. Langmuir, 2022, 38, 7825-7832.	3.5	19
186	Synthesis, Structures, and Reactivity of Biphenylylene Complexes of Bismuth(III). Organometallics, 1996, 15, 887-890.	2.3	18
187	Synthesis and characterisation of a bridging nitrido complex of titanium. New Journal of Chemistry, 2000, 24, 929-930.	2.8	18
188	Dual source atmospheric pressure chemical vapour deposition of TiP films on glass using TiCl4 and PH2But. Journal of Materials Chemistry, 2001, 11, 2408-2409.	6.7	18
189	Thiolate derivatives of titanium(iv) and tantalum(v) as precursors to metal sulfides. Dalton Transactions RSC, 2001, , 2554-2558.	2.3	18
190	Synthesis, AACVD and X-ray crystallographic structures of group 13 monoalkoxometallanes. Main Group Chemistry, 2010, 9, 31-40.	0.8	18
191	Dimethylalkoxygallanes: Monomeric versus Dimeric Gas-Phase Structures. Inorganic Chemistry, 2012, 51, 3324-3331.	4.0	18
192	Enhanced Bactericidal Activity of Silver Thin Films Deposited via Aerosol-Assisted Chemical Vapor Deposition. ACS Applied Materials & Interfaces, 2015, 7, 28616-28623.	8.0	18
193	Photo-activity and low resistivity in N/Nb Co-doped TiO₂ thin films by combinatorial AACVD. Journal of Materials Chemistry A, 2016, 4, 407-415.	10.3	18
194	Ultraviolet Radiation Induced Dopant Loss in a TiO₂ Photocatalyst. ACS Catalysis, 2017, 7, 1485-1490.	11.2	18
195	Bis(diphenylphosphino)methane Disulfide. Acta Crystallographica Section C: Crystal Structure Communications, 1996, 52, 931-933.	0.4	17
196	Homoleptic Bismuth Amides. Inorganic Syntheses, 2007, , 98-101.	0.3	17
197	Aerosolâ€Assisted Chemicalâ€Vapour Deposition of Zinc Oxide from Singleâ€Source Î²â€Iminoesterate Precursors. European Journal of Inorganic Chemistry, 2015, 2015, 3658-3665.	2.0	17
198	Dispersion and microwave processing of nano-sized ITO powder for the fabrication of transparent conductive oxides. Ceramics International, 2016, 42, 18296-18302.	4.8	17

#	Article	IF	Citations
199	Synthesis and characterization of omniphobic surfaces with thermal, mechanical and chemical stability. RSC Advances, 2016, 6, 106491-106499.	3.6	17
200	High-Throughput Continuous Hydrothermal Synthesis of Transparent Conducting Aluminum and Gallium Co-doped Zinc Oxides. ACS Combinatorial Science, 2017, 19, 239-245.	3.8	17
201	Dispelling the Myth of Passivated Codoping in TiO₂. Chemistry of Materials, 2019, 31, 2577-2589.	6.7	17
202	Synthetic and structural studies on organotransition metal-indium thiocyanate complexes. Polyhedron, 1995, 14, 417-424.	2.2	16
203	Cationic, four-co-ordinate, bis(organotransition metal)bismuth(III) complexes. Journal of the Chemical Society Dalton Transactions, 1996, , 455.	1.1	16
204	Azido and amido derivatives of aluminium(III). Polyhedron, 1998, 17, 977-982.	2.2	16
205	Synthesis and Characterization of a Homoleptic Thiolate Complex of Titanium(IV). Inorganic Chemistry, 2000, 39, 2693-2695.	4.0	16
206	Chemical vapour deposition of group Vb metal phosphide thin films. Journal of Materials Chemistry, 2003, 13, 1930.	6.7	16
207	Formation of VN from VCl4 and NH(SiMe3)2 by APCVD ? a Potential Solar Control Coating. European Journal of Inorganic Chemistry, 2004, 2004, 4286-4290.	2.0	16
208	Selfâ€Assembled Ultraâ€High Aspect Ratio Silver Nanochains. Advanced Materials, 2012, 24, 5227-5235.	21.0	16
209	An EXAFS study on the photo-assisted growth of silver nanoparticles on titanium dioxide thin-films and the identification of their photochromic states. Physical Chemistry Chemical Physics, 2013, 15, 8254.	2.8	16
210	Power-free water pump based on a superhydrophobic surface: generation of a mushroom-like jet and anti-gravity long-distance transport. Journal of Materials Chemistry A, 2016, 4, 13771-13777.	10.3	16
211	Intermolecular Interactions between Encapsulated Aromatic Compounds and the Host Framework of a Crystalline Sponge. Crystal Growth and Design, 2017, 17, 858-863.	3.0	16
212	Deeper Understanding of Interstitial Boron-Doped Anatase Thin Films as A Multifunctional Layer Through Theory and Experiment. Journal of Physical Chemistry C, 2018, 122, 714-726.	3.1	16
213	Mathematical Modeling for the Design and Scale-Up of a Large Industrial Aerosol-Assisted Chemical Vapor Deposition Process under Uncertainty. Industrial & Engineering Chemistry Research, 2020, 59, 1249-1260.	3.7	16
214	Liquid-mediated metathetical synthesis of binary and ternary transition-metal pnictides. Polyhedron, 2000, 19, 829-833.	2.2	15
215	The reaction of GeCl4 with primary and secondary phosphines. Dalton Transactions, 2004, , 470.	3.3	15
216	Synthesis and characterisation of titanium pyridine- and pyrimidine-thiolates and their application as precursors to titanium disulfide. Polyhedron, 2007, 26, 43-48.	2.2	15

#	Article	IF	Citations
217	Reactivity of ZrCl4 and HfCl4 with silylamines and thermal decomposition of the compounds [MCl4{NH(R)(SiRâ€²3)}] (M=Zr, Hf, R=tBu, Râ€²=Me; R=SiRâ€²3=SiMe3, SiMe2H). Polyhedron, 2008, 27, 1041-1046.	2.2	15
218	Chromium oxyselenide solid solutions from the atmospheric pressure chemical vapour deposition of chromyl chloride and diethylselenide. Journal of Materials Chemistry, 2008, 18, 1667.	6.7	15
219	Atmospheric Pressure Chemical Vapour Deposition of TiCl₄ and tBuAsH₂ to Form Titanium Arsenide Thin Films. European Journal of Inorganic Chemistry, 2010, 2010, 5629-5634.	2.0	15
220	Aerosol-assisted deposition of gold nanoparticle-tin dioxide composite films. RSC Advances, 2014, 4, 13182-13190.	3.6	15
221	Reactivity of vanadium oxytrichloride with Î²-diketones and diesters as precursors for vanadium nitride and carbide. Materials and Design, 2016, 108, 780-790.	7.0	15
222	Direct and continuous hydrothermal flow synthesis of thermochromic phase pure monoclinic VO₂ nanoparticles. Journal of Materials Chemistry C, 2018, 6, 11731-11739.	5.5	15
223	Synthesis and Structural Characterization of Some Monomeric Group 13 Amides. Inorganic Chemistry, 1999, 38, 296-300.	4.0	14
224	Chemical vapour deposition of crystalline thin films of tantalum phosphide. Materials Letters, 2003, 57, 2634-2636.	2.6	14
225	Conducting Al and Ga-doped zinc oxides; rapid optimisation and scale-up. Journal of Materials Chemistry A, 2016, 4, 12774-12780.	10.3	14
226	Electrochemical Investigation of Phenethylammonium Bismuth Iodide as Anode in Aqueous Zn2+ Electrolytes. Nanomaterials, 2021, 11, 656.	4.1	14
227	The structure of amorphous Ph3SbO: information from EXAFS (extended X-ray absorption fine) Tj ETQq1 1 0.784314 rgBT /Overlock 10	4.1	13
228	Syntheses and X-ray crystal structures of the bismuth (III) thiocyanate and selenocyanate complexes [K3(dmpu)4] [Bi(SCN)6] and [K3(dmpu)4] [Bi(SeCN)6] (dmpu = N,Nâ€²-dimethylpropylene urea). Inorganica Chimica Acta, 1996, 248, 263-266.	2.4	13
229	An intramolecularly stabilized arylboron dibromide. Heteroatom Chemistry, 1998, 9, 79-83.	0.7	13
230	Synthesis and Characterization of Organoaluminum Silylamido Complexes. Organometallics, 2003, 22, 1554-1557.	2.3	13
231	Bis(cyclopentadienyl) zirconium(IV) amides as possible precursors for low pressure CVD and plasma-enhanced ALD. Inorganica Chimica Acta, 2010, 363, 1077-1083.	2.4	13
232	Dual-Source Atmospheric Pressure CVD of Amorphous Molybdenum Phosphide Films on Glass Using Molybdenum(V) Chloride and Cyclohexylphosphine. Chemical Vapor Deposition, 2003, 9, 10-13.	1.3	12
233	Low temperature deposition of crystalline chromium phosphide films using dual-source atmospheric pressure chemical vapour deposition. Applied Surface Science, 2004, 233, 24-28.	6.1	12
234	Syntheses, X-ray structures and CVD of titanium(iv) arsine complexes. Dalton Transactions, 2010, 39, 5325.	3.3	12

#	Article	IF	Citations
235	Combinatorial Atmospheric Pressure CVD of a Composite TiO₂/SnO₂ Thin Film. Chemical Vapor Deposition, 2014, 20, 69-79.	1.3	12
236	Single Step Solution Processed GaAs Thin Films from GaMe3andtBuAsH2under Ambient Pressure. Journal of Physical Chemistry C, 2016, 120, 7013-7019.	3.1	12
237	Aerosol-assisted route to low-E transparent conductive gallium-doped zinc oxide coatings from pre-organized and halogen-free precursor. Chemical Science, 2020, 11, 4980-4990.	7.4	12
238	Crystal Violet-Impregnated Slippery Surface to Prevent Bacterial Contamination of Surfaces. ACS Applied Materials & Interfaces, 2021, 13, 5478-5485.	8.0	12
239	Exploring Equilibria between Aluminium(I) and Aluminium(III): The Formation of Dihydroalanes, Masked Dialumenes and Aluminium(I) Species. Angewandte Chemie - International Edition, 2022, 61, .	13.8	12
240	A synthesis of bismuth(III) phosphide: the first binary phosphide of bismuth. Journal of the Chemical Society Chemical Communications, 1994, , 1987.	2.0	11
241	Synthesis and X-ray crystal structure of [K(18-crown-6)]-[Bi{Co(CO)4}4]: a further example of tetrahedral coordination for four-coordinate bismuth(III). Inorganica Chimica Acta, 1995, 234, 189-193.	2.4	11
242	Germylene and stannylene cleavage of Lawessonâ€™s reagent. Chemical Communications, 1998, , 243-244.	4.1	11
243	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
244	Aerosolâ€Assisted Chemical Vapour Deposition of Transparent Zinc Gallate Films. ChemPlusChem, 2014, 79, 1024-1029.	2.8	11
245	A solution based route to GaAs thin films from As(NMe₂)₃ and GaMe₃ for solar cells. RSC Advances, 2015, 5, 11812-11817.	3.6	11
246	Ga₂O₃â€“Cu₂O: synthesis, characterisation and antibacterial properties. RSC Advances, 2017, 7, 551-558.	3.6	11
247	Metal Î²-diketoiminate precursor use in aerosol assisted chemical vapour deposition of gallium- and aluminium-doped zinc oxide. Polyhedron, 2018, 140, 35-41.	2.2	11
248	A new family of urea-based low molecular-weight organogelators for environmental remediation: the influence of structure. Soft Matter, 2018, 14, 8821-8827.	2.7	11
249	Luminescence behaviour and deposition of Sc2O3 thin films from scandium(III) acetylacetonate at ambient pressure. Applied Physics Letters, 2018, 112, 221902.	3.3	11
250	Dual-scale TiO₂ and SiO₂ particles in combination with a fluoroalkylsilane and polydimethylsiloxane superhydrophobic/superoleophilic coating for efficient solventâ€“water separation. RSC Advances, 2019, 9, 20332-20340.	3.6	11
251	Cucurbituril-mediated quantum dot aggregates formed by aqueous self-assembly for sensing applications. Chemical Communications, 2019, 55, 5495-5498.	4.1	11
252	Pentanuclear alkoxyaluminium hydrides. New Journal of Chemistry, 2002, 26, 902-905.	2.8	10

#	Article	IF	Citations
253	Atmospheric-Pressure CVD of Vanadium Phosphide Thin Films from Reaction of Tetrakisdimethyl-amidovanadium and Cyclohexylphosphine. Chemical Vapor Deposition, 2004, 10, 253-255.	1.3	10
254	Organoaluminum Silylamido Complexes. Organometallics, 2004, 23, 2939-2943.	2.3	10
255	Dimethylalkoxygallane incorporating a donor-functionalised alkoxide: the monomeric gas-phase structure. Dalton Transactions, 2008, , 6880.	3.3	10
256	The reaction of tin(iv) iodide with phosphines: formation of new halotin anions. Dalton Transactions, 2009, , 10486.	3.3	10
257	Atmospheric pressure chemical vapour deposition of NbSe2â€“TiSe2 composite thin films. Applied Surface Science, 2010, 256, 3178-3182.	6.1	10
258	Titanium arsenide films from the atmospheric pressure chemical vapour deposition of tetrakisdimethylamidotitanium and tert-butylarsine. Dalton Transactions, 2011, 40, 10664.	3.3	10
259	Synthesis of Trimeric Organozinc Compounds and their Subsequent Reaction with Oxygen. ChemistryOpen, 2016, 5, 301-305.	1.9	10
260	Aerosol Assisted Chemical Vapour Deposition Synthesis of Copper(I) Oxide Thin Films for CO₂ Reduction Photocatalysis. Journal of Nanoscience and Nanotechnology, 2016, 16, 10112-10116.	0.9	10
261	Si-doped zinc oxide transparent conducting oxides; nanoparticle optimisation, scale-up and thin film deposition. Journal of Materials Chemistry C, 2017, 5, 8796-8801.	5.5	10
262	The structure of an unusual polymeric iodoantimonate(III) anion with disordered antimony sites. Polyhedron, 1994, 13, 1655-1658.	2.2	9
263	Dual-source chemical vapour deposition of titanium(III) phosphide from titanium tetrachloride and tristrimethylsilylphosphine. Applied Surface Science, 2003, 211, 2-5.	6.1	9
264	The use of hexamethyldisilathiane for the synthesis of transition metal sulfides. Polyhedron, 2003, 22, 1255-1262.	2.2	9
265	Synthesis and Structural Characterization of Î²â€Ketoiminateâ€Stabilized Gallium Hydrides for Chemical Vapor Deposition Applications. Chemistry - A European Journal, 2014, 20, 10503-10513.	3.3	9
266	Aerosol assisted chemical vapour deposition of transparent conductive aluminum-doped zinc oxide thin films from a zinc triflate precursor. Thin Solid Films, 2016, 616, 477-481.	1.8	9
267	Encapsulation of Aromatic Compounds and a Non-Aromatic Herbicide into a Gadolinium-Based Metalâ€“Organic Framework via the Crystalline Sponge Method. Crystal Growth and Design, 2020, 20, 7238-7245.	3.0	9
268	Applying the Crystalline Sponge Method to Agrochemicals: Obtaining X-ray Structures of the Fungicide Metalaxyl-M and Herbicide S-Metolachlor. Crystal Growth and Design, 2021, 21, 3024-3036.	3.0	9
269	Germanium phosphide coatings from the atmospheric pressure chemical vapour deposition of GeX4 (X=Cl or Br) and PCychexH2. Polyhedron, 2003, 22, 1683-1688.	2.2	8
270	Reactivity of tetrakisdimethylamido-titanium(iv) and -zirconium(iv) with thiols. New Journal of Chemistry, 2005, 29, 620.	2.8	8

#	Article	IF	Citations
271	Highly Photocatalytically Active Iron(III) Titanium Oxide Thin films via Aerosolâ€Assisted CVD. Chemical Vapor Deposition, 2015, 21, 21-25.	1.3	8
272	Aerosol-assisted fabrication of tin-doped indium oxide ceramic thin films from nanoparticle suspensions. Journal of Materials Chemistry C, 2016, 4, 5739-5746.	5.5	8
273	Accessing new 2D semiconductors with optical band gap: synthesis of iron-intercalated titanium diselenide thin films via LPCVD. RSC Advances, 2018, 8, 22552-22558.	3.6	8
274	Structural and Dynamic Properties of Gallium Alkoxides. Inorganic Chemistry, 2019, 58, 10346-10356.	4.0	8
275	Structure determination of terpenes by the crystalline sponge method. Microporous and Mesoporous Materials, 2020, 308, 110548.	4.4	8
276	Indium tin oxide nanowires manufactured via printing and laser irradiation. Applied Materials Today, 2020, 21, 100835.	4.3	8
277	A novel precursor towards buffer layer materials: the first solution based CVD of zinc oxysulfide. Journal of Materials Chemistry C, 2020, 8, 5501-5508.	5.5	8
278	Zincâ€Ion Batteries: Multiâ€Scale Investigations of Î´â€Ni_{0.25}V₂O₅Â·nH₂O Cathode Materials in Aqueous Zincâ€Ion Batteries (Adv. Energy Mater. 15/2020). Advanced Energy Materials, 2020, 10, 2070068.	19.5	8
279	Synthesis, solution dynamics and chemical vapour deposition of heteroleptic zinc complexes via ethyl and amide zinc thioureides. Chemical Science, 2021, 12, 8822-8831.	7.4	8
280	Coordination Complexes of Thallium (III) Chloride. Main Group Chemistry, 1996, 1, 339-344.	0.8	7
281	LIQUID-MEDIATED METATHETICAL SYNTHESIS OF INDIUM AND ANTIMONY OXIDES AND CHALCOGENIDES. Main Group Metal Chemistry, 1999, 22, .	1.6	7
282	Synthesis and Charaterisation of Chromium Oxyselenide (Cr2Se0.7O2.3) Formed from Chemical Vapour Synthesis: A New Antiferromagnet. European Journal of Inorganic Chemistry, 2007, 2007, 4579-4582.	2.0	7
283	The Effect of Solvent on the Morphology of Indium Oxide Deposited by Aerosol-assisted Chemical Vapour Deposition. Australian Journal of Chemistry, 2013, 66, 1274.	0.9	7
284	Polyoxometalate Complexes as Precursors to Vanadiumâ€Doped Molybdenum or Tungsten Oxide Thin Films by Means of Aerosolâ€Assisted Chemical Vapour Deposition. ChemPlusChem, 2016, 81, 307-314.	2.8	7
285	Macrocycles containing 1,1â€²-ferrocenyldiselenolato ligands on group 4 metallocenes. Dalton Transactions, 2018, 47, 5415-5421.	3.3	7
286	Iron-Intercalated Zirconium Diselenide Thin Films from the Low-Pressure Chemical Vapor Deposition of [Fe(Î·⁵-C₅H₄Se)₂Zr(Î·⁵-C₅H₅)₂ ACS Omega, 2020, 5, 15799-15804.	3.5	7
287	Film Fabrication of Perovskites and their Derivatives for Photovoltaic Applications via Chemical Vapor Deposition. ACS Applied Energy Materials, 2022, 5, 5434-5448.	5.1	7
288	Homoleptic silyl complexes of arsenic and antimony. Polyhedron, 2000, 19, 1639-1642.	2.2	6

#	Article	IF	Citations
289	Synthetic and structural studies on aluminium thiolate complexes. Polyhedron, 2003, 22, 2655-2660.	2.2	6
290	In situ mass spectrometry analysis of chemical vapour deposition of TiO₂thin films to study gas phase mechanisms. RSC Advances, 2016, 6, 111797-111805.	3.6	6
291	[{VOCl2(CH2(COOEt)2)}4] as a molecular precursor for thermochromic monoclinic VO2 thin films and nanoparticles. Journal of Materials Chemistry C, 2016, 4, 10453-10463.	5.5	6
292	Reflective Silver Thin Film Electrodes from Commercial Silver(I) Triflate via Aerosol-Assisted Chemical Vapor Deposition. ACS Applied Nano Materials, 2018, 1, 3724-3732.	5.0	6
293	Synthetic and Structural Studies of Ethyl Zinc Î²-Amidoenoates and Î²-Ketoiminates. Molecules, 2021, 26, 3165.	3.8	6
294	MOCVD of Zirconium Oxide from the Zirconium Guanidinate Complex [ZrCpâ€²{Î·2-(iPrN)2CNMe2}2Cl]. ECS Transactions, 2009, 25, 561-565.	0.5	5
295	Novel ion pairs obtained from the reaction of titanium(IV) halides with simple arsane ligands. Acta Crystallographica Section C: Crystal Structure Communications, 2011, 67, m96-m99.	0.4	5
296	The use of time resolved aerosol assisted chemical vapour deposition in mapping metal oxide thin film growth and fine tuning functional properties. Journal of Materials Chemistry A, 2015, 3, 4811-4819.	10.3	5
297	The Effect of Alkali Metal (Na, K) Doping on Thermochromic Properties of VO2 Films. MRS Advances, 2018, 3, 1863-1869.	0.9	5
298	Chemical vapour deposition (CVD) of nickel oxide using the novel nickel dialkylaminoalkoxide precursor [Ni(dmampâ€²)₂] (dmampâ€² = 2-dimethylamino-2-methyl-1-propanolate). RSC Advances, 2021, 11, 22199-22205.	3.6	5
299	Synthesis and structural characterisation of titanium(IV) thiolate compounds. Dalton Transactions RSC, 2000, , 3500-3504.	2.3	4
300	Magnesium Oxide Thin Films with Tunable Crystallographic Preferred Orientation via Aerosolâ€Assisted CVD. Chemical Vapor Deposition, 2015, 21, 145-149.	1.3	4
301	Controlling and modelling the wetting properties of III-V semiconductor surfaces using re-entrant nanostructures. Scientific Reports, 2018, 8, 3544.	3.3	4
302	Scalable Production of Ambient Stable Hybrid Bismuthâ€Based Materials: AACVD of Phenethylammonium Bismuth Iodide Films**. Chemistry - A European Journal, 2021, 27, 9406-9413.	3.3	4
303	Exploring Equilibria between Aluminium(I) and Aluminium(III): the Formation of Dihydroalanes, Masked Dialumenes and Aluminium(I) Species. Angewandte Chemie, 0, , .	2.0	4
304	Two Anionic Indium(III)â€“Thiocyanate Complexes with Potassium-Centred Complex Cations. Acta Crystallographica Section C: Crystal Structure Communications, 1995, 51, 1254-1258.	0.4	3
305	Probability Density Functions for Droplet Sizing in Aerosol Transport Modelling. Computer Aided Chemical Engineering, 2017, , 2245-2250.	0.5	3
306	Applications of the crystalline sponge method and developments of alternative crystalline sponges. Materials Today: Proceedings, 2022, 56, 3766-3773.	1.8	3

#	Article	IF	Citations
307	Atmospheric pressure chemical vapour deposition of vanadium arsenide thin films via the reaction of VCl4 or VOCl3 with tBuAsH2. Thin Solid Films, 2013, 537, 171-175.	1.8	2
308	Synthesis and Characterisation of Various Diester and Triester Adducts of TiCl₄. European Journal of Inorganic Chemistry, 2015, 2015, 3666-3673.	2.0	2
309	Investigations into the structure, reactivity, and AACVD of aluminium and gallium amidoenoate complexes. Dalton Transactions, 2021, 51, 156-167.	3.3	2
310	Benzyltrimethylammonium Tetramethoxoborate. Acta Crystallographica Section C: Crystal Structure Communications, 1997, 53, 751-753.	0.4	1
311	Di-Î¼-chlorido-bis[dichloridobis(methylamido-ÎºN)bis(methylamine-ÎºN)titanium(IV)]. Acta Crystallographica Section C: Crystal Structure Communications, 2011, 67, m234-m236.	0.4	1
312	Dopant stability in multifunctional doped TiO₂'s under environmental UVA exposure. Environmental Science: Nano, 2017, 4, 1108-1113.	4.3	1
313	Frontispiece: Aerosols: A Sustainable Route to Functional Materials. Chemistry - A European Journal, 2017, 23, .	3.3	1
314	Precursor design and impact of structure on the fabrication of materials. , 2022, , 3-53.		1
315	Ethyl Zinc Î² â€Ketoiminates and Î² â€Amidoenoates: Influence of Precursor Design on the Properties of Highly Conductive Zinc Oxide Thin Films from Aerosolâ€Assisted Chemical Vapour Deposition.. ChemPlusChem, 2022, 87, e202100537.	2.8	1
316	Molecular Design of Precursors for the Chemical Vapor Deposition of Group 13 Chalcogenides. ACS Symposium Series, 2005, , 376-389.	0.5	0
317	The crystalline sponge method for the unambiguous structural determination of non-crystalline compounds: reproducibility, reliability and versatility. Acta Crystallographica Section A: Foundations and Advances, 2016, 72, s331-s331.	0.1	0