Claire Carmalt

List of Publications by Year
in descending order

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317 papers	13,098 citations	26567 56 h-index	38300 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.	6.0	1,494
2	n-Type doped transparent conducting binary oxides: an overview. Journal of Materials Chemistry C, 2016, 4, 6946-6961.	2.7	287
3	Bismuth oxyhalides: synthesis, structure and photoelectrochemical activity. Chemical Science, 2016, 7, 4832-4841.	3.7	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.	4.0	226
5	Aerosol-assisted delivery of precursors for chemical vapour deposition: expanding the scope of CVD for materials fabrication. Dalton Transactions, 2013, 42, 9406.	1.6	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.	10.2	173
7	Super-robust superhydrophobic concrete. Journal of Materials Chemistry A, 2017, 5, 14542-14550.	5.2	170
8	Gas Sensing with Nano-Indium Oxides (In₂O₃) Prepared via Continuous Hydrothermal Flow Synthesis. Langmuir, 2012, 28, 1879-1885.	1.6	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.	7.8	160
10	Atmospheric pressure chemical vapour deposition of SnSe and SnSe2 thin films on glass. Thin Solid Films, 2008, 516, 4750-4757.	0.8	156
11	Creating superhydrophobic mild steel surfaces for water proofing and oilâ€“water separation. Journal of Materials Chemistry A, 2014, 2, 11628-11634.	5.2	153
12	Solution based CVD of main group materials. Chemical Society Reviews, 2016, 45, 1036-1064.	18.7	141
13	A Nanojunction Polymer Photoelectrode for Efficient Charge Transport and Separation. Angewandte Chemie - International Edition, 2017, 56, 8221-8225.	7.2	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.	5.2	123
16	Tungsten Doped TiO2 with Enhanced Photocatalytic and Optoelectrical Properties via Aerosol Assisted Chemical Vapor Deposition. Scientific Reports, 2015, 5, 10952.	1.6	122
17	Large-Area Fabrication of Droplet Pancake Bouncing Surface and Control of Bouncing State. ACS Nano, 2017, 11, 9259-9267.	7.3	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.	2.2	114

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19	Water Oxidation Kinetics of Accumulated Holes on the Surface of a TiO₂ Photoanode: A Rate Law Analysis. ACS Catalysis, 2017, 7, 4896-4903.	5.5	105
20	The reactions of stable nucleophilic carbenes with main group compounds. Advances in Inorganic Chemistry, 2000, 50, 1-32.	0.4	103
21	CVD and precursor chemistry of transition metal nitrides. Coordination Chemistry Reviews, 2013, 257, 2073-2119.	9.5	102
22	Highly conductive and transparent gallium doped zinc oxide thin films via chemical vapor deposition. Scientific Reports, 2020, 10, 638.	1.6	102
23	Laser-generated ultrasound with optical fibres using functionalised carbon nanotube composite coatings. Applied Physics Letters, 2014, 104, .	1.5	101
24	Cyclic phosphenium and arsenium cations with 6Ï€ electrons and related systems. Chemical Communications, 1997, , 2095-2096.	2.2	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.	5.2	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.	2.7	97
27	Designing durable and flexible superhydrophobic coatings and its application in oil purification. Journal of Materials Chemistry A, 2016, 4, 4107-4116.	5.2	94
28	Solution Processing Route to Multifunctional Titania Thin Films: Highly Conductive and Photcatalytically Active Nb:TiO₂. Advanced Functional Materials, 2014, 24, 5075-5085.	7.8	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.	5.2	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.	5.2	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.	5.2	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.	4.0	85
33	A superhydrophilic cement-coated mesh: an acid, alkali, and organic reagent-free material for oil/water separation. Nanoscale, 2018, 10, 1920-1929.	2.8	81
34	Synthesis and Structures of Intramolecularly Base-Coordinated Group 15 Aryl Halides. Inorganic Chemistry, 1997, 36, 2770-2776.	1.9	78
35	Scalable route to CH₃NH₃PbI₃ perovskite thin films by aerosol assisted chemical vapour deposition. Journal of Materials Chemistry A, 2015, 3, 9071-9073.	5.2	75
36	Super-durable, non-fluorinated superhydrophobic free-standing items. Journal of Materials Chemistry A, 2018, 6, 357-362.	5.2	75

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37	Single-source precursors to gallium and indium oxide thin films. Coordination Chemistry Reviews, 2011, 255, 1293-1318.	9.5	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.	2.9	73
39	Synthesis and Structures of Intramolecularly Base-Coordinated Aryl Group 15 Compounds. Inorganic Chemistry, 1996, 35, 6179-6183.	1.9	72
40	Underwater Spontaneous Pumpless Transportation of Nonpolar Organic Liquids on Extreme Wettability Patterns. ACS Applied Materials & Interfaces, 2016, 8, 2942-2949.	4.0	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.	2.7	72
42	Origin of High Mobility in Molybdenum-Doped Indium Oxide. Chemistry of Materials, 2015, 27, 2788-2796.	3.2	71
43	Robust platform for water harvesting and directional transport. Journal of Materials Chemistry A, 2018, 6, 5635-5643.	5.2	71
44	Molecular precursor approach to metal oxide and pnictide thin films. Coordination Chemistry Reviews, 2013, 257, 3202-3221.	9.5	69
45	Gallium(III) and indium(III) alkoxides and aryloxides. Coordination Chemistry Reviews, 2006, 250, 682-709.	9.5	68
46	Atmospheric pressure chemical vapour deposition of WS2 thin films on glass. Polyhedron, 2003, 22, 1499-1505.	1.0	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.	3.2	67
48	Recent advances in low oxidation state aluminium chemistry. Chemical Science, 2020, 11, 6942-6956.	3.7	66
49	Atmospheric pressure chemical vapour deposition of vanadium diselenide thin films. Applied Surface Science, 2007, 253, 6041-6046.	3.1	64
50	Resonant doping for high mobility transparent conductors: the case of Mo-doped In₂O₃. Materials Horizons, 2020, 7, 236-243.	6.4	64
51	A novel bone cement impregnated with silver–tiopronin nanoparticles: its antimicrobial, cytotoxic, and mechanical properties. International Journal of Nanomedicine, 2013, 8, 2227.	3.3	62
52	A Rapid and Robust Diagnostic for Liver Fibrosis Using a Multichannel Polymer Sensor Array. Advanced Materials, 2018, 30, e1800634.	11.1	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.	3.2	61
54	Defected vanadium bronzes as superb cathodes in aqueous zinc-ion batteries. Nanoscale, 2020, 12, 20638-20648.	2.8	61

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55	Cationic Complexes of Antimony(III) and Bismuth(III) Stabilized by Intra- or Intermolecular Coordination. Organometallics, 1997, 16, 3597-3600.	1.1	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.	1.9	60
57	Amido compounds of gallium and indium. Coordination Chemistry Reviews, 2001, 223, 217-264.	9.5	59
58	Aerosol Assisted Chemical Vapor Deposition of In₂O₃ Films from Me₃In and Donor Functionalized Alcohols. Inorganic Chemistry, 2007, 46, 9473-9480.	1.9	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.	3.2	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.	1.6	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.	4.0	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.	5.2	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.	2.8	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.	4.0	54
67	Atmospheric Pressure CVD of Molybdenum Diselenide Films on Glass. Chemical Vapor Deposition, 2006, 12, 692-698.	1.4	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.	1.7	52
70	Antimicrobial Properties of Copper-Doped ZnO Coatings under Darkness and White Light Illumination. ACS Omega, 2017, 2, 4556-4562.	1.6	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.	1.6	50

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73	Resonant Ta Doping for Enhanced Mobility in Transparent Conducting SnO₂. Chemistry of Materials, 2020, 32, 1964-1973.	3.2	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.	2.1	49
75	Structural Studies on some Iodoantimonate and Iodobismuthate Anions. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 1995, 621, 47-56.	0.6	48
76	Atmospheric Pressure Chemical Vapour Deposition of NbSe2 Thin Films on Glass. European Journal of Inorganic Chemistry, 2006, 2006, 1255-1259.	1.0	48
77	Transparent conducting n-type ZnO:Sc â€“ synthesis, optoelectronic properties and theoretical insight. Journal of Materials Chemistry C, 2017, 5, 7585-7597.	2.7	46
78	Superhydrophilicâ€“superhydrophobic patterned surfaces on glass substrate for water harvesting. Journal of Materials Science, 2020, 55, 498-508.	1.7	46
79	Does a Photocatalytic Synergy in an Anataseâ€“Rutile TiO₂ Composite Thinâ€Film Exist?. Chemistry - A European Journal, 2012, 18, 13048-13058.	1.7	45
80	Water droplets bouncing on superhydrophobic soft porous materials. Journal of Materials Chemistry A, 2014, 2, 12177-12184.	5.2	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.	3.2	45
82	Molecular precursors to gallium oxide thin films. Dalton Transactions, 2004, , 3475.	1.6	44
83	Gallium oxide thin films from the AACVD of [Ga(NMe2)3]2 and donor functionalised alcohols. Dalton Transactions, 2008, , 591.	1.6	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.	7.8	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.	4.0	44
86	Scaling aerosol assisted chemical vapour deposition: Exploring the relationship between growth rate and film properties. Materials and Design, 2017, 129, 116-124.	3.3	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.	1.9	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.	0.8	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.	1.4	43

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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.	4.0	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.	0.8	42
93	Tetrahydrofuran Adducts of Bismuth Trichloride and Bismuth Tribromide. Inorganic Chemistry, 1996, 35, 3709-3712.	1.9	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.	1.7	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.	5.2	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.	2.0	41
98	Aerosol-assisted chemical vapour deposition of transparent superhydrophobic film by using mixed functional alkoxysilanes. Scientific Reports, 2019, 9, 7549.	1.6	41
99	Monomeric Titanium(IV) Azides as a New Route to Titanium Nitride. Inorganic Chemistry, 1997, 36, 3108-3112.	1.9	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.	3.6	39
102	The effect of solvent on Al-doped ZnO thin films depositedviaaerosol assisted CVD. RSC Advances, 2018, 8, 33164-33173.	1.7	39
103	Durable fire retardant, superhydrophobic, abrasive resistant and air/UV stable coatings. Journal of Colloid and Interface Science, 2021, 582, 301-311.	5.0	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.	4.0	38
105	Humidity-Tolerant Ultrathin NiO Gas-Sensing Films. ACS Sensors, 2020, 5, 1389-1397.	4.0	38
106	Syntheses, X-ray structures and CVD studies of diorganoalkoxogallanes. Journal of Organometallic Chemistry, 2008, 693, 1787-1796.	0.8	36
107	Transparent conducting oxide thin films of Si-doped ZnO prepared by aerosol assisted CVD. RSC Advances, 2017, 7, 10806-10814.	1.7	36
108	Titanium imido complexes as precursors to titanium nitride. Dalton Transactions RSC, 2002, , 4055-4059.	2.3	35

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109	Synthesis of Group 13 Sesquialkoxides and Their Application as Precursors to Crystalline Oxide Films. Organometallics, 2007, 26, 403-407.	1.1	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.	0.8	34
111	Synthesis and Characterization of Gallium Silylamido Complexes. Inorganic Chemistry, 2001, 40, 6035-6038.	1.9	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.	2.0	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.	2.7	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.	5.2	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.	1.9	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.	2.3	33
118	Phosphorus doped SnO₂ thin films for transparent conducting oxide applications: synthesis, optoelectronic properties and computational models. Chemical Science, 2018, 9, 7968-7980.	3.7	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.	3.2	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.	1.0	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.	1.4	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.	2.7	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.	5.2	32
124	Aerosols: A Sustainable Route to Functional Materials. Chemistry - A European Journal, 2017, 23, 15543-15552.	1.7	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.	5.6	32
126	Fluorine-Free Transparent Superhydrophobic Nanocomposite Coatings from Mesoporous Silica. Langmuir, 2020, 36, 13426-13438.	1.6	31

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127	Synthesis of Zirconium Guanidinate Complexes and the Formation of Zirconium Carbonitride via Low Pressure CVD. Organometallics, 2009, 28, 1838-1844.	1.1	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.	0.3	29
129	Solution Processing of GaAs Thin Films for Photovoltaic Applications. Chemistry of Materials, 2014, 26, 4419-4424.	3.2	29
130	Effect of pretreatment temperature on the photocatalytic activity of microwave irradiated porous nanocrystalline ZnO. New Journal of Chemistry, 2015, 39, 321-332.	1.4	29
131	A Nanojunction Polymer Photoelectrode for Efficient Charge Transport and Separation. Angewandte Chemie, 2017, 129, 8333-8337.	1.6	29
132	High Defect Nanoscale ZnO Films with Polar Facets for Enhanced Photocatalytic Performance. ACS Applied Nano Materials, 2019, 2, 2881-2889.	2.4	29
133	Tin phosphide coatings from the atmospheric pressure chemical vapour deposition of SnX4 (X=Cl or) Tj ETQq1 1 0.784314 rgBT /Ove	1.0	28
134	Atmospheric pressure chemical vapour deposition of TiS2 thin films on glass. Polyhedron, 2003, 22, 1263-1269.	1.0	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.	1.7	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.	1.7	28
138	Molecular Complexes Featuring Unsupported Dispersion-Enhanced Aluminumâ€“Copper and Galliumâ€“Copper Bonds. Journal of the American Chemical Society, 2020, 142, 19874-19878.	6.6	28
139	Zn and N Codoped TiO₂ Thin Films: Photocatalytic and Bactericidal Activity. ACS Applied Materials & Interfaces, 2021, 13, 10480-10489.	4.0	28
140	Synthesis and material characterization ofÂamorphous and crystalline (Î±-) Al₂O₃via aerosol assisted chemical vapour deposition. RSC Advances, 2016, 6, 102956-102960.	1.7	27
141	Computational and Experimental Study of Ta₂O₅ Thin Films. Journal of Physical Chemistry C, 2017, 121, 202-210.	1.5	27
142	The syntheses and structures of two large iodoantimonate anions. Polyhedron, 1993, 12, 2081-2090.	1.0	26
143	Synthesis and crystal structure of the tris(pyridine) complex of gallium tris(azide). Chemical Communications, 1996, , 1453.	2.2	26
144	Inexpensive and non-toxic water repellent coatings comprising SiO₂ nanoparticles and long chain fatty acids. RSC Advances, 2018, 8, 27064-27072.	1.7	26

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145	Transparent and Conductive Molybdenum-Doped ZnO Thin Films via Chemical Vapor Deposition. ACS Applied Electronic Materials, 2020, 2, 120-125.	2.0	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.	1.4	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.	5.2	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.	2.7	25
150	Multifunctional Porous and Magnetic Silicone with High Elasticity, Durability, and Oilâ€“Water Separation Properties. Langmuir, 2018, 34, 13305-13311.	1.6	25
151	Isolation and structural characterization of novel compounds containing B4O2 rings. Polyhedron, 1997, 16, 2325-2328.	1.0	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.	1.9	24
153	Aerosol-assisted chemical vapour deposition of sodium fluoride thin films. Thin Solid Films, 2004, 469-470, 416-419.	0.8	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.	1.0	24
155	Chemically Treated 3D Printed Polymer Scaffolds for Biomineral Formation. ACS Omega, 2018, 3, 4342-4351.	1.6	24
156	Fabrication of Superhydrophobic Micro Post Array on Aluminum Substrates Using Mask Electrochemical Machining. Chinese Journal of Mechanical Engineering (English Edition), 2018, 31, .	1.9	24
157	Single-source CVD routes to titanium phosphide. Dalton Transactions RSC, 2002, , 2702-2709.	2.3	23
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