

# Claire Carmalt

## List of Publications by Year in descending order

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317  
papers

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25014

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334  
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334  
docs citations

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times ranked

14346  
citing authors

#	ARTICLE	IF	CITATIONS
1	Film Fabrication of Perovskites and their Derivatives for Photovoltaic Applications via Chemical Vapor Deposition. ACS Applied Energy Materials, 2022, 5, 5434-5448.	2.5	7
2	Applications of the crystalline sponge method and developments of alternative crystalline sponges. Materials Today: Proceedings, 2022, 56, 3766-3773.	0.9	3
3	Precursor design and impact of structure on the fabrication of materials. , 2022, , 3-53.		1
4	Ethyl Zinc $\beta$ -Ketoiminates and $\beta$ -Amidoenoates: Influence of Precursor Design on the Properties of Highly Conductive Zinc Oxide Thin Films from Aerosol-Assisted Chemical Vapour Deposition.. ChemPlusChem, 2022, 87, e202100537.	1.3	1
5	Exploring Equilibria between Aluminium(I) and Aluminium(III): The Formation of Dihydroalanes, Masked Dialumenes and Aluminium(I) Species. Angewandte Chemie - International Edition, 2022, 61, .	7.2	12
6	Production of an EP/PDMS/SA/AlZnO Coated Superhydrophobic Surface through an Aerosol-Assisted Chemical Vapor Deposition Process. Langmuir, 2022, 38, 7825-7832.	1.6	19
7	Durable fire retardant, superhydrophobic, abrasive resistant and air/UV stable coatings. Journal of Colloid and Interface Science, 2021, 582, 301-311.	5.0	39
8	Chemical vapour deposition (CVD) of nickel oxide using the novel nickel dialkylaminoalkoxide precursor [Ni(dmamp) <sub>2</sub> ] (dmamp <sup>2</sup> = 2-dimethylamino-2-methyl-1-propanolate). RSC Advances, 2021, 11, 22199-22205.	1.7	5
9	Synthesis, solution dynamics and chemical vapour deposition of heteroleptic zinc complexes <i>via</i> ethyl and amide zinc thioureides. Chemical Science, 2021, 12, 8822-8831.	3.7	8
10	Zn and N Codoped TiO <sub>2</sub> Thin Films: Photocatalytic and Bactericidal Activity. ACS Applied Materials & Interfaces, 2021, 13, 10480-10489.	4.0	28
11	Electrochemical Investigation of Phenethylammonium Bismuth Iodide as Anode in Aqueous Zn <sup>2+</sup> Electrolytes. Nanomaterials, 2021, 11, 656.	1.9	14
12	Applying the Crystalline Sponge Method to Agrochemicals: Obtaining X-ray Structures of the Fungicide Metalaxyl-M and Herbicide <i>S</i> -Metolachlor. Crystal Growth and Design, 2021, 21, 3024-3036.	1.4	9
13	A coating-free superhydrophobic sensing material for full-range human motion and microliter droplet impact detection. Chemical Engineering Journal, 2021, 410, 128418.	6.6	22
14	Synthetic and Structural Studies of Ethyl Zinc $\beta$ -Amidoenoates and $\beta$ -Ketoiminates. Molecules, 2021, 26, 3165.	1.7	6
15	Scalable Production of Ambient Stable Hybrid Bismuth-Based Materials: AACVD of Phenethylammonium Bismuth Iodide Films**. Chemistry - A European Journal, 2021, 27, 9406-9413.	1.7	4
16	Aluminum Amidinates: Insights into Alkyne Hydroboration. Inorganic Chemistry, 2021, 60, 10958-10969.	1.9	20
17	Crystal Violet-Impregnated Slippery Surface to Prevent Bacterial Contamination of Surfaces. ACS Applied Materials & Interfaces, 2021, 13, 5478-5485.	4.0	12
18	Investigations into the structure, reactivity, and AACVD of aluminium and gallium amidoenoate complexes. Dalton Transactions, 2021, 51, 156-167.	1.6	2

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19	Superhydrophilic "superhydrophobic patterned surfaces on glass substrate for water harvesting. Journal of Materials Science, 2020, 55, 498-508.	1.7	46
20	Resonant doping for high mobility transparent conductors: the case of Mo-doped In <sub>2</sub> O <sub>3</sub> . Materials Horizons, 2020, 7, 236-243.	6.4	64
21	TiO <sub>2</sub> nanotube arrays decorated with Au and Bi <sub>2</sub> S <sub>3</sub> nanoparticles for efficient Fe <sup>3+</sup> ions detection and dye photocatalytic degradation. Journal of Materials Science and Technology, 2020, 39, 28-38.	5.6	32
22	Encapsulation of Aromatic Compounds and a Non-Aromatic Herbicide into a Gadolinium-Based Metal-Organic Framework via the Crystalline Sponge Method. Crystal Growth and Design, 2020, 20, 7238-7245.	1.4	9
23	Antimicrobial surfaces: A need for stewardship?. PLoS Pathogens, 2020, 16, e1008880.	2.1	22
24	Molecular Complexes Featuring Unsupported Dispersion-Enhanced Aluminum-Copper and Gallium-Copper Bonds. Journal of the American Chemical Society, 2020, 142, 19874-19878.	6.6	28
25	Structure determination of terpenes by the crystalline sponge method. Microporous and Mesoporous Materials, 2020, 308, 110548.	2.2	8
26	Indium tin oxide nanowires manufactured via printing and laser irradiation. Applied Materials Today, 2020, 21, 100835.	2.3	8
27	Fluorine-Free Transparent Superhydrophobic Nanocomposite Coatings from Mesoporous Silica. Langmuir, 2020, 36, 13426-13438.	1.6	31
28	n-Type conducting P doped ZnO thin films <i>via</i> chemical vapor deposition. RSC Advances, 2020, 10, 34527-34533.	1.7	19
29	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
30	Recent advances in low oxidation state aluminium chemistry. Chemical Science, 2020, 11, 6942-6956.	3.7	66
31	Defected vanadium bronzes as superb cathodes in aqueous zinc-ion batteries. Nanoscale, 2020, 12, 20638-20648.	2.8	61
32	Iron-Intercalated Zirconium Diselenide Thin Films from the Low-Pressure Chemical Vapor Deposition of [Fe( <sup>5</sup> I-C <sub>5</sub> H <sub>4</sub> Se) <sub>2</sub> Zr( <sup>5</sup> I-C <sub>5</sub> H <sub>5</sub> ) <sub>2</sub> ] <sub>2</sub> . ACS Omega, 2020, 5, 15799-15804.	1.6	7
33	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.	3.7	12
34	Multi-Scale Investigations of Ni <sub>0.25</sub> V <sub>2</sub> O <sub>5</sub> ·nH <sub>2</sub> O Cathode Materials in Aqueous Zinc-Ion Batteries. Advanced Energy Materials, 2020, 10, 2000058.	10.2	173
35	Resonant Ta Doping for Enhanced Mobility in Transparent Conducting SnO <sub>2</sub> . Chemistry of Materials, 2020, 32, 1964-1973.	3.2	50
36	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.	1.8	16

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37	Highly conductive and transparent gallium doped zinc oxide thin films via chemical vapor deposition. <i>Scientific Reports</i> , 2020, 10, 638.	1.6	102
38	A novel precursor towards buffer layer materials: the first solution based CVD of zinc oxysulfide. <i>Journal of Materials Chemistry C</i> , 2020, 8, 5501-5508.	2.7	8
39	Humidity-Tolerant Ultrathin NiO Gas-Sensing Films. <i>ACS Sensors</i> , 2020, 5, 1389-1397.	4.0	38
40	Zinc-Ion Batteries: Multi-Scale Investigations of $\text{Ni}_{0.25}\text{V}_2\text{O}_5\text{-nH}_2\text{O}$ Cathode Materials in Aqueous Zinc-Ion Batteries ( <i>Adv. Energy Mater.</i> 15/2020). <i>Advanced Energy Materials</i> , 2020, 10, 2070068.	10.2	8
41	Transparent and Conductive Molybdenum-Doped ZnO Thin Films via Chemical Vapor Deposition. <i>ACS Applied Electronic Materials</i> , 2020, 2, 120-125.	2.0	26
42	Structural and Dynamic Properties of Gallium Alkoxides. <i>Inorganic Chemistry</i> , 2019, 58, 10346-10356.	1.9	8
43	Fabrication of robust superhydrophobic surfaces <i>via</i> aerosol-assisted CVD and thermo-triggered healing of superhydrophobicity by recovery of roughness structures. <i>Journal of Materials Chemistry A</i> , 2019, 7, 17604-17612.	5.2	91
44	Dual-scale $\text{TiO}_2$ and $\text{SiO}_2$ particles in combination with a fluoroalkylsilane and polydimethylsiloxane superhydrophobic/superoleophilic coating for efficient solvent-water separation. <i>RSC Advances</i> , 2019, 9, 20332-20340.	1.7	11
45	Slippery Liquid Infused Porous $\text{TiO}_2/\text{SnO}_2$ Nanocomposite Thin Films via Aerosol Assisted Chemical Vapor Deposition with Anti-Icing and Fog Retardant Properties. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 41804-41812.	4.0	38
46	Robust Superhydrophobic Conical Pillars from Syringe Needle Shape to Straight Conical Pillar Shape for Droplet Pancake Bouncing. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 45345-45353.	4.0	56
47	Heterojunction $\text{Fe}_2\text{O}_3/\text{ZnO}$ Films with Enhanced Photocatalytic Properties Grown by Aerosol-Assisted Chemical Vapour Deposition. <i>Chemistry - A European Journal</i> , 2019, 25, 11337-11345.	1.7	28
48	Low-Cost One-Step Fabrication of Highly Conductive ZnO:Cl Transparent Thin Films with Tunable Photocatalytic Properties via Aerosol-Assisted Chemical Vapor Deposition. <i>ACS Applied Electronic Materials</i> , 2019, 1, 1408-1417.	2.0	41
49	Aerosol-assisted chemical vapour deposition of transparent superhydrophobic film by using mixed functional alkoxysilanes. <i>Scientific Reports</i> , 2019, 9, 7549.	1.6	41
50	High-efficiency bubble transportation in an aqueous environment on a serial wedge-shaped wettability pattern. <i>Journal of Materials Chemistry A</i> , 2019, 7, 13567-13576.	5.2	90
51	High Defect Nanoscale ZnO Films with Polar Facets for Enhanced Photocatalytic Performance. <i>ACS Applied Nano Materials</i> , 2019, 2, 2881-2889.	2.4	29
52	Dispelling the Myth of Passivated Codoping in $\text{TiO}_2$ . <i>Chemistry of Materials</i> , 2019, 31, 2577-2589.	3.2	17
53	Cucurbituril-mediated quantum dot aggregates formed by aqueous self-assembly for sensing applications. <i>Chemical Communications</i> , 2019, 55, 5495-5498.	2.2	11
54	Controlling and modelling the wetting properties of III-V semiconductor surfaces using re-entrant nanostructures. <i>Scientific Reports</i> , 2018, 8, 3544.	1.6	4

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55	Robust platform for water harvesting and directional transport. <i>Journal of Materials Chemistry A</i> , 2018, 6, 5635-5643.	5.2	71
56	Chemically Treated 3D Printed Polymer Scaffolds for Biomineral Formation. <i>ACS Omega</i> , 2018, 3, 4342-4351.	1.6	24
57	The Effect of Alkali Metal (Na, K) Doping on Thermochromic Properties of VO <sub>2</sub> Films. <i>MRS Advances</i> , 2018, 3, 1863-1869.	0.5	5
58	Metal $\beta$ -diketoiminate precursor use in aerosol assisted chemical vapour deposition of gallium- and aluminium-doped zinc oxide. <i>Polyhedron</i> , 2018, 140, 35-41.	1.0	11
59	Deeper Understanding of Interstitial Boron-Doped Anatase Thin Films as A Multifunctional Layer Through Theory and Experiment. <i>Journal of Physical Chemistry C</i> , 2018, 122, 714-726.	1.5	16
60	A superhydrophilic cement-coated mesh: an acid, alkali, and organic reagent-free material for oil/water separation. <i>Nanoscale</i> , 2018, 10, 1920-1929.	2.8	81
61	Aluminium/gallium, indium/gallium, and aluminium/indium co-doped ZnO thin films deposited <i>via</i> aerosol assisted CVD. <i>Journal of Materials Chemistry C</i> , 2018, 6, 588-597.	2.7	72
62	Macrocycles containing 1,1'-ferrocenyldiselenolato ligands on group 4 metallocenes. <i>Dalton Transactions</i> , 2018, 47, 5415-5421.	1.6	7
63	Super-durable, non-fluorinated superhydrophobic free-standing items. <i>Journal of Materials Chemistry A</i> , 2018, 6, 357-362.	5.2	75
64	A new family of urea-based low molecular-weight organogelators for environmental remediation: the influence of structure. <i>Soft Matter</i> , 2018, 14, 8821-8827.	1.2	11
65	Direct and continuous hydrothermal flow synthesis of thermochromic phase pure monoclinic VO <sub>2</sub> nanoparticles. <i>Journal of Materials Chemistry C</i> , 2018, 6, 11731-11739.	2.7	15
66	The effect of solvent on Al-doped ZnO thin films deposited <i>via</i> aerosol assisted CVD. <i>RSC Advances</i> , 2018, 8, 33164-33173.	1.7	39
67	Single step route to highly transparent, conductive and hazy aluminium doped zinc oxide films. <i>RSC Advances</i> , 2018, 8, 42300-42307.	1.7	28
68	Multifunctional Porous and Magnetic Silicone with High Elasticity, Durability, and Oil/Water Separation Properties. <i>Langmuir</i> , 2018, 34, 13305-13311.	1.6	25
69	Fabrication of Superhydrophobic Micro Post Array on Aluminum Substrates Using Mask Electrochemical Machining. <i>Chinese Journal of Mechanical Engineering (English Edition)</i> , 2018, 31, .	1.9	24
70	A Rapid and Robust Diagnostic for Liver Fibrosis Using a Multichannel Polymer Sensor Array. <i>Advanced Materials</i> , 2018, 30, e1800634.	11.1	62
71	Luminescence behaviour and deposition of Sc <sub>2</sub> O <sub>3</sub> thin films from scandium(III) acetylacetonate at ambient pressure. <i>Applied Physics Letters</i> , 2018, 112, 221902.	1.5	11
72	Enhanced electrical properties of antimony doped tin oxide thin films deposited <i>via</i> aerosol assisted chemical vapour deposition. <i>Journal of Materials Chemistry C</i> , 2018, 6, 7257-7266.	2.7	97

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73	Inexpensive and non-toxic water repellent coatings comprising SiO <sub>2</sub> nanoparticles and long chain fatty acids. RSC Advances, 2018, 8, 27064-27072.	1.7	26
74	Boosting heterojunction interaction in electrochemical construction of MoS <sub>2</sub> quantum dots@TiO <sub>2</sub> nanotube arrays for highly effective photoelectrochemical performance and electrocatalytic hydrogen evolution. Electrochemistry Communications, 2018, 93, 152-157.	2.3	33
75	The Effect of Film Thickness on the Gas Sensing Properties of Ultra-Thin TiO <sub>2</sub> Films Deposited by Atomic Layer Deposition. Sensors, 2018, 18, 735.	2.1	49
76	Accessing new 2D semiconductors with optical band gap: synthesis of iron-intercalated titanium diselenide thin films <i>via</i> LPCVD. RSC Advances, 2018, 8, 22552-22558.	1.7	8
77	Reflective Silver Thin Film Electrodes from Commercial Silver(I) Triflate via Aerosol-Assisted Chemical Vapor Deposition. ACS Applied Nano Materials, 2018, 1, 3724-3732.	2.4	6
78	Phosphorus doped SnO <sub>2</sub> thin films for transparent conducting oxide applications: synthesis, optoelectronic properties and computational models. Chemical Science, 2018, 9, 7968-7980.	3.7	33
79	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
80	Photocatalytic and electrically conductive transparent Cl-doped ZnO thin films <i>via</i> aerosol-assisted chemical vapour deposition. Journal of Materials Chemistry A, 2018, 6, 12682-12692.	5.2	34
81	Ultraviolet Radiation Induced Dopant Loss in a TiO <sub>2</sub> Photocatalyst. ACS Catalysis, 2017, 7, 1485-1490.	5.5	18
82	Ga <sub>2</sub> O <sub>3</sub> –Cu <sub>2</sub> O: synthesis, characterisation and antibacterial properties. RSC Advances, 2017, 7, 551-558.	1.7	11
83	Transparent conducting oxide thin films of Si-doped ZnO prepared by aerosol assisted CVD. RSC Advances, 2017, 7, 10806-10814.	1.7	36
84	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
85	Superoleophobic surfaces on stainless steel substrates obtained by chemical bath deposition. Micro and Nano Letters, 2017, 12, 76-81.	0.6	19
86	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
87	Chemical Vapor Deposition Synthesis and Optical Properties of Nb <sub>2</sub> O <sub>5</sub> 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
88	Interstitial boron-doped anatase TiO <sub>2</sub> 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
89	Water Oxidation Kinetics of Accumulated Holes on the Surface of a TiO <sub>2</sub> Photoanode: A Rate Law Analysis. ACS Catalysis, 2017, 7, 4896-4903.	5.5	105
90	A Nanojunction Polymer Photoelectrode for Efficient Charge Transport and Separation. Angewandte Chemie, 2017, 129, 8333-8337.	1.6	29

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91	A Nanjunction Polymer Photoelectrode for Efficient Charge Transport and Separation. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 8221-8225.	7.2	130
92	Scaling aerosol assisted chemical vapour deposition: Exploring the relationship between growth rate and film properties. <i>Materials and Design</i> , 2017, 129, 116-124.	3.3	44
93	Optimized Atmospheric-Pressure Chemical Vapor Deposition Thermo-chromic VO <sub>2</sub> Thin Films for Intelligent Window Applications. <i>ACS Omega</i> , 2017, 2, 1040-1046.	1.6	56
94	Dopant stability in multifunctional doped TiO <sub>2</sub> 's under environmental UVA exposure. <i>Environmental Science: Nano</i> , 2017, 4, 1108-1113.	2.2	1
95	Computational and Experimental Study of Ta <sub>2</sub> O <sub>5</sub> Thin Films. <i>Journal of Physical Chemistry C</i> , 2017, 121, 202-210.	1.5	27
96	Intermolecular Interactions between Encapsulated Aromatic Compounds and the Host Framework of a Crystalline Sponge. <i>Crystal Growth and Design</i> , 2017, 17, 858-863.	1.4	16
97	Qualitative XANES and XPS Analysis of Substrate Effects in VO <sub>2</sub> Thin Films: A Route to Improving Chemical Vapor Deposition Synthetic Methods?. <i>Journal of Physical Chemistry C</i> , 2017, 121, 20345-20352.	1.5	22
98	Large-Area Fabrication of Droplet Pancake Bouncing Surface and Control of Bouncing State. <i>ACS Nano</i> , 2017, 11, 9259-9267.	7.3	118
99	Aerosols: A Sustainable Route to Functional Materials. <i>Chemistry - A European Journal</i> , 2017, 23, 15543-15552.	1.7	32
100	Table Salt as a Template to Prepare Reusable Porous PVDF/MWCNT Foam for Separation of Immiscible Oils/Organic Solvents and Corrosive Aqueous Solutions. <i>Advanced Functional Materials</i> , 2017, 27, 1702926.	7.8	160
101	Transparent conducting n-type ZnO:Sc synthesis, optoelectronic properties and theoretical insight. <i>Journal of Materials Chemistry C</i> , 2017, 5, 7585-7597.	2.7	46
102	Plasmonic Gold Nanostars Incorporated into High-Efficiency Perovskite Solar Cells. <i>ChemSusChem</i> , 2017, 10, 3750-3753.	3.6	39
103	Transparent superhydrophobic PTFE films via one-step aerosol assisted chemical vapor deposition. <i>RSC Advances</i> , 2017, 7, 29275-29283.	1.7	52
104	Si-doped zinc oxide transparent conducting oxides; nanoparticle optimisation, scale-up and thin film deposition. <i>Journal of Materials Chemistry C</i> , 2017, 5, 8796-8801.	2.7	10
105	Antimicrobial Properties of Copper-Doped ZnO Coatings under Darkness and White Light Illumination. <i>ACS Omega</i> , 2017, 2, 4556-4562.	1.6	52
106	Electronic properties of antimony-doped anatase TiO <sub>2</sub> thin films prepared by aerosol assisted chemical vapour deposition. <i>Journal of Materials Chemistry C</i> , 2017, 5, 9694-9701.	2.7	25
107	Transforming a Simple Commercial Glue into Highly Robust Superhydrophobic Surfaces via Aerosol-Assisted Chemical Vapor Deposition. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 42327-42335.	4.0	85
108	Frontispiece: Aerosols: A Sustainable Route to Functional Materials. <i>Chemistry - A European Journal</i> , 2017, 23, .	1.7	1

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109	Super-robust superhydrophobic concrete. <i>Journal of Materials Chemistry A</i> , 2017, 5, 14542-14550.	5.2	170
110	Probability Density Functions for Droplet Sizing in Aerosol Transport Modelling. <i>Computer Aided Chemical Engineering</i> , 2017, , 2245-2250.	0.3	3
111	Aerosol-assisted fabrication of tin-doped indium oxide ceramic thin films from nanoparticle suspensions. <i>Journal of Materials Chemistry C</i> , 2016, 4, 5739-5746.	2.7	8
112	Polyoxometalate Complexes as Precursors to Vanadium-Doped Molybdenum or Tungsten Oxide Thin Films by Means of Aerosol-Assisted Chemical Vapour Deposition. <i>ChemPlusChem</i> , 2016, 81, 307-314.	1.3	7
113	Al-, Ga-, and In-doped ZnO thin films via aerosol assisted CVD for use as transparent conducting oxides. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2016, 213, 1346-1352.	0.8	43
114	Single Step Solution Processed GaAs Thin Films from GaMe <sub>3</sub> and tBuAsH <sub>2</sub> under Ambient Pressure. <i>Journal of Physical Chemistry C</i> , 2016, 120, 7013-7019.	1.5	12
115	The Crystalline Sponge Method: A Systematic Study of the Reproducibility of Simple Aromatic Molecule Encapsulation and Guest-Host Interactions. <i>Crystal Growth and Design</i> , 2016, 16, 3465-3472.	1.4	43
116	Synthesis of Trimeric Organozinc Compounds and their Subsequent Reaction with Oxygen. <i>ChemistryOpen</i> , 2016, 5, 301-305.	0.9	10
117	Aerosol Assisted Chemical Vapour Deposition Synthesis of Copper(I) Oxide Thin Films for CO <sub>2</sub> Reduction Photocatalysis. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 10112-10116.	0.9	10
118	Conducting Al and Ga-doped zinc oxides; rapid optimisation and scale-up. <i>Journal of Materials Chemistry A</i> , 2016, 4, 12774-12780.	5.2	14
119	Power-free water pump based on a superhydrophobic surface: generation of a mushroom-like jet and anti-gravity long-distance transport. <i>Journal of Materials Chemistry A</i> , 2016, 4, 13771-13777.	5.2	16
120	In situ mass spectrometry analysis of chemical vapour deposition of TiO <sub>2</sub> thin films to study gas phase mechanisms. <i>RSC Advances</i> , 2016, 6, 111797-111805.	1.7	6
121	Aerosol assisted chemical vapour deposition of transparent conductive aluminum-doped zinc oxide thin films from a zinc triflate precursor. <i>Thin Solid Films</i> , 2016, 616, 477-481.	0.8	9
122	Interstitial Boron-Doped TiO <sub>2</sub> Thin Films: The Significant Effect of Boron on TiO <sub>2</sub> Coatings Grown by Atmospheric Pressure Chemical Vapor Deposition. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 25024-25029.	4.0	44
123	A single-source precursor approach to solution processed indium arsenide thin films. <i>Journal of Materials Chemistry C</i> , 2016, 4, 6761-6768.	2.7	19
124	Dispersion and microwave processing of nano-sized ITO powder for the fabrication of transparent conductive oxides. <i>Ceramics International</i> , 2016, 42, 18296-18302.	2.3	17
125	Reactivity of vanadium oxytrichloride with $\beta$ -diketones and diesters as precursors for vanadium nitride and carbide. <i>Materials and Design</i> , 2016, 108, 780-790.	3.3	15
126	[{VOCl <sub>2</sub> (CH <sub>2</sub> (COOEt) <sub>2</sub> )} <sub>4</sub> ] as a molecular precursor for thermochromic monoclinic VO <sub>2</sub> thin films and nanoparticles. <i>Journal of Materials Chemistry C</i> , 2016, 4, 10453-10463.	2.7	6



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127	Synthesis and material characterization of amorphous and crystalline $(\text{Al}_{2-x}\text{O}_3)_x$ via aerosol assisted chemical vapour deposition. RSC Advances, 2016, 6, 102956-102960.	1.7	27
128	Synthesis and characterization of omniphobic surfaces with thermal, mechanical and chemical stability. RSC Advances, 2016, 6, 106491-106499.	1.7	17
129	Photocatalytic Oxygen Evolution from Cobalt-Modified Nanocrystalline BiFeO <sub>3</sub> Films Grown via Low-Pressure Chemical Vapor Deposition from $\text{I}^2$ -Diketonate Precursors. Crystal Growth and Design, 2016, 16, 3818-3825.	1.4	20
130	n-Type doped transparent conducting binary oxides: an overview. Journal of Materials Chemistry C, 2016, 4, 6946-6961.	2.7	287
131	High-Throughput Synthesis, Screening, and Scale-Up of Optimized Conducting Indium Tin Oxides. ACS Combinatorial Science, 2016, 18, 130-137.	3.8	21
132	Underwater Spontaneous Pumpsless Transportation of Nonpolar Organic Liquids on Extreme Wettability Patterns. ACS Applied Materials & Interfaces, 2016, 8, 2942-2949.	4.0	72
133	Designing durable and flexible superhydrophobic coatings and its application in oil purification. Journal of Materials Chemistry A, 2016, 4, 4107-4116.	5.2	94
134	Bismuth oxyhalides: synthesis, structure and photoelectrochemical activity. Chemical Science, 2016, 7, 4832-4841.	3.7	252
135	Photo-activity and low resistivity in N/Nb Co-doped TiO <sub>2</sub> thin films by combinatorial AACVD. Journal of Materials Chemistry A, 2016, 4, 407-415.	5.2	18
136	Solution based CVD of main group materials. Chemical Society Reviews, 2016, 45, 1036-1064.	18.7	141
137	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.	0.0	0
138	Aerosol-Assisted Chemical Vapour Deposition of Zinc Oxide from Single-Source $\text{I}^2$ -aminoesterate Precursors. European Journal of Inorganic Chemistry, 2015, 2015, 3658-3665.	1.0	17
139	Synthesis and Characterisation of Various Diester and Triester Adducts of TiCl <sub>4</sub> . European Journal of Inorganic Chemistry, 2015, 2015, 3666-3673.	1.0	2
140	Magnesium Oxide Thin Films with Tunable Crystallographic Preferred Orientation via Aerosol-Assisted CVD. Chemical Vapor Deposition, 2015, 21, 145-149.	1.4	4
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