Ivan P Parkin

List of Publications by Year
in descending order

818 papers	41,980 citations	2802 94 h-index	5539 163 g-index
835 all docs	835 docs citations	835 times ranked	41630 citing authors

#	Article	IF	Citations
1	Mechanochemistry: opportunities for new and cleaner synthesis. Chemical Society Reviews, 2012, 41, 413-447.	38.1	2,281
2	Band alignment of rutile and anatase TiO2. Nature Materials, 2013, 12, 798-801.	27.5	1,924
3	Robust self-cleaning surfaces that function when exposed to either air or oil. Science, 2015, 347, 1132-1135.	12.6	1,494
4	Self-cleaning coatings. Journal of Materials Chemistry, 2005, 15, 1689.	6.7	855
5	Antimicrobial surfaces and their potential in reducing the role of the inanimate environment in the incidence of hospital-acquired infections. Journal of Materials Chemistry, 2009, 19, 3819.	6.7	458
6	Tuning the interlayer spacing of graphene laminate films for efficient pore utilization towards compact capacitive energy storage. Nature Energy, 2020, 5, 160-168.	39.5	381
7	Atmospheric Pressure Chemical Vapor Deposition of Tin Sulfides (SnS, Sn2S3, and SnS2) on Glass. Chemistry of Materials, 1999, 11, 1792-1799.	6.7	377
8	Intelligent Window Coatings:Â Atmospheric Pressure Chemical Vapor Deposition of Tungsten-Doped Vanadium Dioxide. Chemistry of Materials, 2004, 16, 744-749.	6.7	363
9	Alleviation of Dendrite Formation on Zinc Anodes via Electrolyte Additives. ACS Energy Letters, 2021, 6, 395-403.	17.4	340
10	Superhydrophobic polymer-coated copper-mesh; membranes for highly efficient oilâ€“water separation. Journal of Materials Chemistry A, 2013, 1, 5943.	10.3	306
11	Titania and silverâ€“titania composite films on glassâ€”potent antimicrobial coatings. Journal of Materials Chemistry, 2007, 17, 95-104.	6.7	304
12	Evaluation of the BET Theory for the Characterization of Meso and Microporous MOFs. Small Methods, 2018, 2, 1800173.	8.6	288
13	n-Type doped transparent conducting binary oxides: an overview. Journal of Materials Chemistry C, 2016, 4, 6946-6961.	5.5	287
14	Characterisation of the photocatalyst Pilkington Activâ„¢: a reference film photocatalyst?. Journal of Photochemistry and Photobiology A: Chemistry, 2003, 160, 213-224.	3.9	283
15	Preparation and Characterisation of Superâ€Hydrophobic Surfaces. Chemistry - A European Journal, 2010, 16, 3568-3588.	3.3	267
16	Ultrasensitive plano-concave optical microresonators for ultrasound sensing. Nature Photonics, 2017, 11, 714-719.	31.4	255
17	Bismuth oxyhalides: synthesis, structure and photoelectrochemical activity. Chemical Science, 2016, 7, 4832-4841.	7.4	252
18	The antimicrobial properties of light-activated polymers containing methylene blue and gold nanoparticles. Biomaterials, 2009, 30, 89-93.	11.4	231

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19	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
20	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
21	The Anti-Biofouling Properties of Superhydrophobic Surfaces are Short-Lived. ACS Nano, 2018, 12, 6050-6058.	14.6	222
22	Intelligent Multifunctional VO₂/SiO₂/TiO₂ Coatings for Self-Cleaning, Energy-Saving Window Panels. Chemistry of Materials, 2016, 28, 1369-1376.	6.7	221
23	Intelligent window coatings: atmospheric pressure chemical vapour deposition of vanadium oxides. Journal of Materials Chemistry, 2002, 12, 2936-2939.	6.7	220
24	Novel TiO2 CVD films for semiconductor photocatalysis. Journal of Photochemistry and Photobiology A: Chemistry, 2002, 151, 171-179.	3.9	215
25	S, Nâ€Coâ€Doped Grapheneâ€Nickel Cobalt Sulfide Aerogel: Improved Energy Storage and Electrocatalytic Performance. Advanced Science, 2017, 4, 1600214.	11.2	204
26	Photo-induced enhanced Raman spectroscopy for universal ultra-trace detection of explosives, pollutants and biomolecules. Nature Communications, 2016, 7, 12189.	12.8	201
27	Rechargeable aqueous Zn-based energy storage devices. Joule, 2021, 5, 2845-2903.	24.0	201
28	Thick titanium dioxide films for semiconductor photocatalysis. Journal of Photochemistry and Photobiology A: Chemistry, 2003, 160, 185-194.	3.9	194
29	Insights on Flexible Zincâ€Ion Batteries from Lab Research to Commercialization. Advanced Materials, 2021, 33, e2007548.	21.0	191
30	The role of surfaces in catheter-associated infections. Chemical Society Reviews, 2009, 38, 3435.	38.1	190
31	An investigation into bacterial attachment to an elastomeric superhydrophobic surface prepared via aerosol assisted deposition. Thin Solid Films, 2011, 519, 3722-3727.	1.8	181
32	Energy modelling studies of thermochromic glazing. Energy and Buildings, 2010, 42, 1666-1673.	6.7	175
33	The incorporation of noble metal nanoparticles into host matrix thin films: synthesis, characterisation and applications. Journal of Materials Chemistry, 2009, 19, 574-590.	6.7	173
34	Nanoparticles: their potential use in antibacterial photodynamic therapy. Photochemical and Photobiological Sciences, 2011, 10, 712-720.	2.9	173
35	Multiâ€Scale Investigations of Îˊâ€Ni_{0.25}V₂O₅Â·nH₂O Cathode Materials in Aqueous Zincâ€Ion Batteries. Advanced Energy Materials, 2020, 10, 2000058.	19.5	173
36	Super-robust superhydrophobic concrete. Journal of Materials Chemistry A, 2017, 5, 14542-14550.	10.3	170

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37	Bulk magnetization of the heavy rare earth titanate pyrochlores - a series of model frustrated magnets. Journal of Physics Condensed Matter, 2000, 12, 483-495.	1.8	167
38	Superhydrophobic Photocatalytic Surfaces through Direct Incorporation of Titania Nanoparticles into a Polymer Matrix by Aerosol Assisted Chemical Vapor Deposition. Advanced Materials, 2012, 24, 3505-3508.	21.0	167
39	Investigation of a Branchlike MoO₃/Polypyrrole Hybrid with Enhanced Electrochemical Performance Used as an Electrode in Supercapacitors. ACS Applied Materials & Interfaces, 2014, 6, 1125-1130.	8.0	167
40	One pot synthesis of nickel foam supported self-assembly of NiWO₄ and CoWO₄ nanostructures that act as high performance electrochemical capacitor electrodes. Journal of Materials Chemistry A, 2015, 3, 14272-14278.	10.3	167
41	Large-scale fabrication of translucent and repairable superhydrophobic spray coatings with remarkable mechanical, chemical durability and UV resistance. Journal of Materials Chemistry A, 2017, 5, 10622-10631.	10.3	164
42	Intelligent Thermochromic Windows. Journal of Chemical Education, 2006, 83, 393.	2.3	162
43	Atmospheric Pressure Chemical Vapor Deposition of Crystalline Monoclinic WO3 and WO3-x Thin Films from Reaction of WCl6 with O-Containing Solvents and Their Photochromic and Electrochromic Properties. Chemistry of Materials, 2005, 17, 1583-1590.	6.7	161
44	Gas Sensing with Nano-Indium Oxides (In₂O₃) Prepared via Continuous Hydrothermal Flow Synthesis. Langmuir, 2012, 28, 1879-1885.	3.5	160
45	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
46	Palladium alloys used as electrocatalysts for the oxygen reduction reaction. Energy and Environmental Science, 2021, 14, 2639-2669.	30.8	158
47	Atmospheric pressure chemical vapour deposition of SnSe and SnSe2 thin films on glass. Thin Solid Films, 2008, 516, 4750-4757.	1.8	156
48	Nitrogen-doped TiO₂thin films: photocatalytic applications for healthcare environments. Dalton Transactions, 2011, 40, 1635-1640.	3.3	153
49	Creating superhydrophobic mild steel surfaces for water proofing and oilâ€“water separation. Journal of Materials Chemistry A, 2014, 2, 11628-11634.	10.3	153
50	Aerosol Assisted Chemical Vapor Deposition Using Nanoparticle Precursors:Â A Route to Nanocomposite Thin Films. Journal of the American Chemical Society, 2006, 128, 1587-1597.	13.7	151
51	Titania and tungsten doped titania thin films on glass; active photocatalysts. Polyhedron, 2003, 22, 35-44.	2.2	150
52	Buoyancy increase and drag-reduction through a simple superhydrophobic coating. Nanoscale, 2017, 9, 7588-7594.	5.6	141
53	Solid state metathesis routes to transition metal carbides. Journal of Materials Chemistry, 1999, 9, 1275-1281.	6.7	138
54	A Dendritic Nickel Cobalt Sulfide Nanostructure for Alkaline Battery Electrodes. Advanced Functional Materials, 2018, 28, 1705937.	14.9	138

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55	Transient Absorption Spectroscopy of Anatase and Rutile: The Impact of Morphology and Phase on Photocatalytic Activity. Journal of Physical Chemistry C, 2015, 119, 10439-10447.	3.1	135
56	Exceptional supercapacitor performance from optimized oxidation of graphene-oxide. Energy Storage Materials, 2019, 17, 12-21.	18.0	135
57	Flexible and Selfâ€Powered Photodetector Arrays Based on Allâ€Inorganic CsPbBr₃ Quantum Dots. Advanced Materials, 2020, 32, e2000004.	21.0	134
58	Selfâ€propagating highâ€temperature synthesis of ferrites MFe2O4 (M = Mg, Ba, Co, Ni, Cu, Zn); reactions in an external magnetic field. Journal of Materials Chemistry, 1999, 9, 2545-2552.	6.7	129
59	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
60	Where Do Photogenerated Holes Go in Anatase:Rutile TiO₂? A Transient Absorption Spectroscopy Study of Charge Transfer and Lifetime. Journal of Physical Chemistry A, 2016, 120, 715-723.	2.5	128
61	N₂ Electroreduction to NH₃ by Selenium Vacancyâ€Rich ReSe₂ Catalysis at an Abrupt Interface. Angewandte Chemie - International Edition, 2020, 59, 13320-13327.	13.8	127
62	Carboxylic acid-stabilised iron oxide nanoparticles for use in magnetic hyperthermia. Journal of Materials Chemistry, 2009, 19, 6529.	6.7	126
63	Water droplet bouncingâ€"a definition for superhydrophobic surfaces. Chemical Communications, 2011, 47, 12059.	4.1	125
64	Self-cleaning superhydrophobic surface based on titanium dioxide nanowires combined with polydimethylsiloxane. Applied Surface Science, 2013, 284, 319-323.	6.1	125
65	Creating robust superamphiphobic coatings for both hard and soft materials. Journal of Materials Chemistry A, 2015, 3, 20999-21008.	10.3	123
66	Tungsten Doped TiO2 with Enhanced Photocatalytic and Optoelectrical Properties via Aerosol Assisted Chemical Vapor Deposition. Scientific Reports, 2015, 5, 10952.	3.3	122
67	Carbonâ€Nanotubeâ€"PDMS Composite Coatings on Optical Fibers for Allâ€Optical Ultrasound Imaging. Advanced Functional Materials, 2016, 26, 8390-8396.	14.9	120
68	Multichannel Detection and Differentiation of Explosives with a Quantum Dot Array. ACS Nano, 2016, 10, 1139-1146.	14.6	120
69	Atmospheric pressure chemical vapour deposition of tungsten doped vanadium(iv) oxide from VOCl3, water and WCl6. Journal of Materials Chemistry, 2004, 14, 2554.	6.7	119
70	Large-Area Fabrication of Droplet Pancake Bouncing Surface and Control of Bouncing State. ACS Nano, 2017, 11, 9259-9267.	14.6	118
71	Copper as an antimicrobial agent: recent advances. RSC Advances, 2021, 11, 18179-18186.	3.6	118
72	Sulfurâ€Deficient Bismuth Sulfide/Nitrogenâ€Doped Carbon Nanofibers as Advanced Freeâ€Standing Electrode for Asymmetric Supercapacitors. Small, 2018, 14, e1801562.	10.0	117

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73	The first single source deposition of tin sulfide coatings on glass: aerosol-assisted chemical vapour deposition using [Sn(SCH2CH2S)2]. Journal of Materials Chemistry, 2001, 11, 1486-1490.	6.7	115
74	Evidence and Effect of Photogenerated Charge Transfer for Enhanced Photocatalysis in WO₃/TiO₂ Heterojunction Films: A Computational and Experimental Study. Advanced Functional Materials, 2017, 27, 1605413.	14.9	115
75	Engineering Polymer Glue towards 90% Zinc Utilization for 1000 Hours to Make Highâ€Performance Znâ€Ion Batteries. Advanced Functional Materials, 2021, 31, 2107652.	14.9	115
76	Lethal photosensitisation of Staphylococcus aureus using a toluidine blue Oâ€“tioproninâ€“gold nanoparticle conjugate. Journal of Materials Chemistry, 2007, 17, 3739.	6.7	113
77	Multifunctional P-Doped TiO₂ Films: A New Approach to Self-Cleaning, Transparent Conducting Oxide Materials. Chemistry of Materials, 2015, 27, 3234-3242.	6.7	113
78	Barrelâ€Shaped Oil Skimmer Designed for Collection of Oil from Spills. Advanced Materials Interfaces, 2015, 2, 1500350.	3.7	112
79	Atmospheric pressure chemical vapour deposition of thermochromic tungsten doped vanadium dioxide thin films for use in architectural glazing. Thin Solid Films, 2009, 517, 4565-4570.	1.8	111
80	Recent Developments in the Field of Explosive Trace Detection. ACS Nano, 2020, 14, 10804-10833.	14.6	110
81	Titanium dioxide and composite metal/metal oxide titania thin films on glass: A comparative study of photocatalytic activity. Journal of Photochemistry and Photobiology A: Chemistry, 2009, 204, 183-190.	3.9	107
82	Porous biocompatible implants and tissue scaffolds synthesized by selective laser sintering from Ti and NiTi. Journal of Materials Chemistry, 2008, 18, 1309.	6.7	106
83	Enhanced photocatalytic activity under visible light in N-doped TiO2 thin films produced by APCVD preparations using t-butylamine as a nitrogen source and their potential for antibacterial films. Journal of Photochemistry and Photobiology A: Chemistry, 2009, 207, 244-253.	3.9	106
84	Ultrasmall CuCo₂S₄ Nanocrystals: Allâ€inâ€One Theragnosis Nanoplatform with Magnetic Resonance/Nearâ€Infrared Imaging for Efficiently Photothermal Therapy of Tumors. Advanced Functional Materials, 2017, 27, 1606218.	14.9	106
85	White light induced photocatalytic activity of sulfur-doped TiO2 thin films and their potential for antibacterial application. Journal of Materials Chemistry, 2009, 19, 8747.	6.7	105
86	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
87	CVD and precursor chemistry of transition metal nitrides. Coordination Chemistry Reviews, 2013, 257, 2073-2119.	18.8	102
88	Enhanced Photocatalytic and Antibacterial Ability of Cu-Doped Anatase TiO₂ Thin Films: Theory and Experiment. ACS Applied Materials & Interfaces, 2020, 12, 15348-15361.	8.0	102
89	Highly conductive and transparent gallium doped zinc oxide thin films via chemical vapor deposition. Scientific Reports, 2020, 10, 638.	3.3	102
90	Cathode Design for Aqueous Rechargeable Multivalent Ion Batteries: Challenges and Opportunities. Advanced Functional Materials, 2021, 31, 2010445.	14.9	102

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91	Laser-generated ultrasound with optical fibres using functionalised carbon nanotube composite coatings. Applied Physics Letters, 2014, 104, .	3.3	101
92	Enabling stable MnO₂ matrix for aqueous zinc-ion battery cathodes. Journal of Materials Chemistry A, 2020, 8, 22075-22082.	10.3	101
93	Enhanced transparent-conducting fluorine-doped tin oxide films formed by Aerosol-Assisted Chemical Vapour Deposition. Journal of Materials Chemistry C, 2013, 1, 984-996.	5.5	100
94	Nano-composite thermochromic thin films and their application in energy-efficient glazing. Solar Energy Materials and Solar Cells, 2010, 94, 141-151.	6.2	99
95	Graphene/nitrogen-doped porous carbon sandwiches for the metal-free oxygen reduction reaction: conductivity versus active sites. Journal of Materials Chemistry A, 2016, 4, 12658-12666.	10.3	99
96	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
97	Refining Energy Levels in ReS₂ Nanosheets by Lowâ€Valent Transitionâ€Metal Doping for Dualâ€Boosted Electrochemical Ammonia/Hydrogen Production. Advanced Functional Materials, 2020, 30, 1907376.	14.9	99
98	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
99	Dualâ€Mechanism Antimicrobial Polymerâ€“ZnO Nanoparticle and Crystal Violetâ€Encapsulated Silicone. Advanced Functional Materials, 2015, 25, 1367-1373.	14.9	94
100	Designing durable and flexible superhydrophobic coatings and its application in oil purification. Journal of Materials Chemistry A, 2016, 4, 4107-4116.	10.3	94
101	APCVD of thermochromic vanadium dioxide thin filmsâ€”solid solutions V2â€“xMxO2 (M = Mo, Nb) or composites VO2 : SnO2. Journal of Materials Chemistry, 2005, 15, 4560.	6.7	93
102	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
103	Synthesis and characterisation of W-doped VO2 by Aerosol Assisted Chemical Vapour Deposition. Thin Solid Films, 2008, 516, 1992-1997.	1.8	91
104	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
105	Topochemistryâ€Driven Synthesis of Transitionâ€Metal Selenides with Weakened Van Der Waals Force to Enable 3Dâ€Printed Naâ€Ion Hybrid Capacitors. Advanced Functional Materials, 2022, 32, .	14.9	91
106	A bioinspired solution for spectrally selective thermochromic VO_2 coated intelligent glazing. Optics Express, 2013, 21, A750.	3.4	90
107	Through-needle all-optical ultrasound imaging in vivo: a preclinical swine study. Light: Science and Applications, 2017, 6, e17103-e17103.	16.6	90
108	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

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109	Highly Sensitive ZnO Nanorod- and Nanoprism-Based NO₂ Gas Sensors: Size and Shape Control Using a Continuous Hydrothermal Pilot Plant. Langmuir, 2013, 29, 10603-10609.	3.5	89
110	Electrochemical sensor for discrimination tyrosine enantiomers using graphene quantum dots and Î²-cyclodextrins composites. Talanta, 2017, 173, 94-100.	5.5	89
111	Facile fabrication of stable superhydrophobic SiO2/polystyrene coating and separation of liquids with different surface tension. Chemical Engineering Journal, 2013, 231, 414-419.	12.7	88
112	Copper-based water repellent and antibacterial coatings by aerosol assisted chemical vapour deposition. Chemical Science, 2016, 7, 5126-5131.	7.4	87
113	The interaction between gold nanoparticles and cationic and anionic dyes: enhanced UV-visible absorption. Physical Chemistry Chemical Physics, 2009, 11, 10513.	2.8	86
114	Advances towards programmable droplet transport on solid surfaces and its applications. Chemical Society Reviews, 2020, 49, 7879-7892.	38.1	86
115	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
116	Antimicrobial activity of methylene blue and toluidine blue O covalently bound to a modified silicone polymer surface. Journal of Materials Chemistry, 2009, 19, 6167.	6.7	83
117	Shining light on materials â€" A self-sterilising revolution. Advanced Drug Delivery Reviews, 2013, 65, 570-580.	13.7	83
118	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
119	Polydimethylsiloxane Composites for Optical Ultrasound Generation and Multimodality Imaging. Advanced Functional Materials, 2018, 28, 1704919.	14.9	81
120	Aerosol assisted chemical vapour deposition of photochromic tungsten oxide and doped tungsten oxide thin films. Journal of Materials Chemistry, 2004, 14, 2864.	6.7	79
121	Chemical Vapor Deposition of Photocatalytically Active Pure Brookite TiO₂ Thin Films. Chemistry of Materials, 2018, 30, 1353-1361.	6.7	79
122	Aerosol Assisted Chemical Vapor Deposition of Transparent Conductive Zinc Oxide Films. Chemistry of Materials, 2012, 24, 4704-4710.	6.7	78
123	Sensitive and specific detection of explosives in solution and vapour by surface-enhanced Raman spectroscopy on silver nanocubes. Nanoscale, 2017, 9, 16459-16466.	5.6	78
124	Nb-Doped VO2 Thin Films Prepared by Aerosol-Assisted Chemical Vapour Deposition. European Journal of Inorganic Chemistry, 2007, 2007, 4050-4055.	2.0	77
125	A general method for boosting the supercapacitor performance of graphitic carbon nitride/graphene hybrids. Journal of Materials Chemistry A, 2017, 5, 25545-25554.	10.3	77
126	Enhanced adsorption capacity of ultralong hydrogen titanate nanobelts for antibiotics. Journal of Materials Chemistry A, 2017, 5, 4352-4358.	10.3	76

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127	Tungsten Oxide Coatings from the Aerosol-Assisted Chemical Vapor Deposition of W(OAr)6(Ar = C6H5,) Tj ETQq1 1 0.784314 rgBT /O	6.7	75
128	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
129	Super-durable, non-fluorinated superhydrophobic free-standing items. Journal of Materials Chemistry A, 2018, 6, 357-362.	10.3	75
130	Deposition of tin sulfide thin films from novel, volatile (fluoroalkythiolato)tin(iv) precursors. Journal of Materials Chemistry, 2001, 11, 469-473.	6.7	74
131	Spectral and photocatalytic characteristics of TiO2 CVD films on quartz. Photochemical and Photobiological Sciences, 2002, 1, 865-868.	2.9	74
132	Atmospheric pressure chemical vapour deposition of titanium dioxide coatings on glass. Journal of Materials Chemistry, 2003, 13, 56-60.	6.7	74
133	Vanadium(IV) oxide thin films on glass and silicon from the atmospheric pressure chemical vapour deposition reaction of VOCl3 and water. Polyhedron, 2004, 23, 3087-3095.	2.2	73
134	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
135	The Role of Phosphate Group in Doped Cobalt Molybdate: Improved Electrocatalytic Hydrogen Evolution Performance. Advanced Science, 2020, 7, 1903674.	11.2	73
136	Anatase Thin Films on Glass from the Chemical Vapor Deposition of Titanium(IV) Chloride and Ethyl Acetate. Chemistry of Materials, 2003, 15, 46-50.	6.7	72
137	Underwater Spontaneous Pumpless Transportation of Nonpolar Organic Liquids on Extreme Wettability Patterns. ACS Applied Materials & Interfaces, 2016, 8, 2942-2949.	8.0	72
138	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
139	Synthesis and thermal decomposition studies of homo- and heteroleptic tin(iv) thiolates and dithiocarbamates: molecular precursors for tin sulfides. Dalton Transactions RSC, 2002, , 1085-1092.	2.3	71
140	Origin of High Mobility in Molybdenum-Doped Indium Oxide. Chemistry of Materials, 2015, 27, 2788-2796.	6.7	71
141	Potent Antibacterial Activity of Copper Embedded into Silicone and Polyurethane. ACS Applied Materials & Interfaces, 2015, 7, 22807-22813.	8.0	71
142	Flexible and mechanically robust superhydrophobic silicone surfaces with stable Cassieâ€“Baxter state. Journal of Materials Chemistry A, 2016, 4, 14180-14186.	10.3	71
143	Optimizing the Activity of Nanoneedle Structured WO₃ Photoanodes for Solar Water Splitting: Direct Synthesis via Chemical Vapor Deposition. Journal of Physical Chemistry C, 2017, 121, 5983-5993.	3.1	71
144	Robust platform for water harvesting and directional transport. Journal of Materials Chemistry A, 2018, 6, 5635-5643.	10.3	71

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145	Identification and manipulation of dynamic active site deficiency-induced competing reactions in electrocatalytic oxidation processes. Energy and Environmental Science, 2022, 15, 2386-2396.	30.8	71
146	Rationally Designed Sodium Chromium Vanadium Phosphate Cathodes with Multiâ€Electron Reaction for Fastâ€Charging Sodiumâ€Ion Batteries. Advanced Energy Materials, 2022, 12, .	19.5	71
147	Intrinsic intermediate gap states of TiO2 materials and their roles in charge carrier kinetics. Journal of Photochemistry and Photobiology C: Photochemistry Reviews, 2019, 39, 1-57.	11.6	70
148	Solid state metathesis: synthesis of metal carbides from metal oxides. Journal of Materials Chemistry, 2001, 11, 3116-3119.	6.7	69
149	Zinc Oxide Thin Films Grown by Aerosol Assisted CVD. Chemical Vapor Deposition, 2008, 14, 366-372.	1.3	69
150	Nanoparticulate silver coated-titania thin filmsâ€"Photo-oxidative destruction of stearic acid under different light sources and antimicrobial effects under hospital lighting conditions. Journal of Photochemistry and Photobiology A: Chemistry, 2011, 220, 113-123.	3.9	69
151	The vapour phase detection of explosive markers and derivatives using two fluorescent metalâ€"organic frameworks. Journal of Materials Chemistry A, 2015, 3, 6351-6359.	10.3	69
152	Progress and Perspectives of Organosulfur for Lithiumâ€"Sulfur Batteries. Advanced Energy Materials, 2022, 12, 2103483.	19.5	69
153	Continuous flow synthesis of ultrasmall gold nanoparticles in a microreactor using trisodium citrate and their SERS performance. Chemical Engineering Science, 2018, 189, 422-430.	3.8	68
154	Atmospheric pressure chemical vapour deposition of WS2 thin films on glass. Polyhedron, 2003, 22, 1499-1505.	2.2	67
155	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
156	The Use of Combinatorial Chemical Vapor Deposition in the Synthesis of Ti₃₋_{Î´}O₄N with 0.06 < Î´ < 0.25:â€‰ A Titanium Oxynitride Phase Isostructural to Anosovite. Journal of the American Chemical Society, 2007, 129, 15541-15548.	13.7	67
157	Microstructure and antibacterial efficacy of graphene oxide nanocomposite fibres. Journal of Colloid and Interface Science, 2020, 571, 239-252.	9.4	67
158	New routes to alkali-metalâ€"rare-earth-metal sulfides. Journal of Materials Chemistry, 1994, 4, 1603-1609.	6.7	66
159	Deposition of tin sulfide thin films from tin(iv) thiolate precursors. Journal of Materials Chemistry, 2001, 11, 464-468.	6.7	65
160	X-ray Diffraction Area Mapping of Preferred Orientation and Phase Change in TiO2Thin Films Deposited by Chemical Vapor Deposition. Journal of the American Chemical Society, 2006, 128, 12147-12155.	13.7	65
161	High-Throughput Continuous Hydrothermal Synthesis of an Entire Nanoceramic Phase Diagram. ACS Combinatorial Science, 2009, 11, 829-834.	3.3	65
162	Antimicrobial activity of polyurethane embedded with methylene blue, toluidene blue and gold nanoparticles against Staphylococcus aureus; illuminated with white light. Materials Chemistry and Physics, 2011, 129, 446-450.	4.0	65

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163	A novel damage-tolerant superhydrophobic and superoleophilic material. Journal of Materials Chemistry A, 2014, 2, 9002-9006.	10.3	65
164	Aerosol assisted chemical vapour deposition of WO3 thin films from tungsten hexacarbonyl and their gas sensing properties. Journal of Materials Chemistry, 2007, 17, 3708.	6.7	64
165	Atmospheric pressure chemical vapour deposition of vanadium diselenide thin films. Applied Surface Science, 2007, 253, 6041-6046.	6.1	64
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