Paul O'brien

List of Publications by Year
in descending order

605 papers	26,078 citations	8172 76 h-index	13758 129 g-index
628 all docs	628 docs citations	628 times ranked	23964 citing authors

#	Article	IF	Citations
1	Nanocrystalline Semiconductors:Â Synthesis, Properties, and Perspectives. Chemistry of Materials, 2001, 13, 3843-3858.	3.2	1,214
2	Understanding the factors that govern the deposition and morphology of thin films of ZnO from aqueous solution. Journal of Materials Chemistry, 2004, 14, 2575-2591.	6.7	695
3	Production of few-layer phosphorene by liquid exfoliation of black phosphorus. Chemical Communications, 2014, 50, 13338-13341.	2.2	667
4	Synthesis, Properties, and Applications of Transition Metal-Doped Layered Transition Metal Dichalcogenides. Chemistry of Materials, 2016, 28, 1965-1974.	3.2	424
5	The association between sterilizing activity and drug distribution into tuberculosis lesions. Nature Medicine, 2015, 21, 1223-1227.	15.2	387
6	Precursor Chemistry for Main Group Elements in Semiconducting Materials. Chemical Reviews, 2010, 110, 4417-4446.	23.0	316
7	Synthesis of CdS and CdSe Nanocrystallites Using a Novel Single-Molecule Precursors Approach. Chemistry of Materials, 1997, 9, 523-530.	3.2	293
8	Optical Properties of ZnO Nanocrystals Doped with Cd, Mg, Mn, and Fe Ions. Journal of Physical Chemistry B, 2006, 110, 21412-21415.	1.2	287
9	A Low Curing Temperature Silver Ink for Use in Ink-Jet Printing and Subsequent Production of Conductive Tracks. Macromolecular Rapid Communications, 2005, 26, 315-318.	2.0	285
10	Air-Stable Single-Source Precursors for the Synthesis of Chalcogenide Semiconductor Nanoparticles. Chemistry of Materials, 2001, 13, 913-920.	3.2	269
11	Hybrid polymer/metal oxide solar cells based on ZnO columnar structures. Journal of Materials Chemistry, 2006, 16, 2088.	6.7	259
12	Room-Temperature Lasing Observed from ZnO Nanocolumns Grown by Aqueous Solution Deposition. Advanced Materials, 2002, 14, 1221-1224.	11.1	245
13	Developing an understanding of the processes controlling the chemical bath deposition of ZnS and CdS. Journal of Materials Chemistry, 1998, 8, 2309-2314.	6.7	241
14	Mesocrystals: A New Class of Solid Materials. Small, 2008, 4, 1566-1574.	5.2	237
15	Quantum-dot concentrator and thermodynamic model for the global redshift. Applied Physics Letters, 2000, 76, 1197-1199.	1.5	234
16	Recent developments in IIâ€“VI and IIIâ€“VI semiconductors and their applications in solar cells. Journal of Materials Chemistry, 2006, 16, 1597-1602.	6.7	229
17	Tin(II) Sulfide (SnS) Nanosheets by Liquid-Phase Exfoliation of Herzenbergite: IVâ€“VI Main Group Two-Dimensional Atomic Crystals. Journal of the American Chemical Society, 2015, 137, 12689-12696.	6.6	220
18	Nanostructured Aptamer-Functionalized Black Phosphorus Sensing Platform for Label-Free Detection of Myoglobin, a Cardiovascular Disease Biomarker. ACS Applied Materials & Interfaces, 2016, 8, 22860-22868.	4.0	208

#	Article	IF	Citations
19	The Chemical Vapor Deposition of Nickel Phosphide or Selenide Thin Films from a Single Precursor. Journal of the American Chemical Society, 2008, 130, 2420-2421.	6.6	207
20	Routes to copper zinc tin sulfide Cu2ZnSnS4 a potential material for solar cells. Chemical Communications, 2012, 48, 5703.	2.2	204
21	A Simple Route to the Synthesis of Core/Shell Nanoparticles of Chalcogenides. Chemistry of Materials, 2002, 14, 2004-2010.	3.2	201
22	A Novel Route for the Preparation of CuSe and CuInSe2 Nanoparticles. Advanced Materials, 1999, 11, 1441-1444.	11.1	186
23	Mesocrystals â€" Properties and Applications. Journal of Physical Chemistry Letters, 2012, 3, 620-628.	2.1	179
24	A Facile Synthesis of Uniform NH₄TiOF₃Mesocrystals and Their Conversion to TiO₂Mesocrystals. Journal of the American Chemical Society, 2008, 130, 1309-1320.	6.6	177
25	Syntheses of semiconductor nanoparticles using single-molecular precursors. Chemical Record, 2001, 1, 467-479.	2.9	169
26	Novel low temperature solution deposition of perpendicularly orientated rods of ZnO: substrate effects and evidence of the importance of counter-ions in the control of crystallite growth. Chemical Communications, 2002, , 80-81.	2.2	161
27	A single source approach to the synthesis of CdSe nanocrystallites. Advanced Materials, 1996, 8, 161-163.	11.1	160
28	Synthesis of PbS nanocrystallites using a novel single molecule precursors approach: X-ray single-crystal structure of Pb(S2CNEtPri)2. Journal of Materials Chemistry, 1997, 7, 1011-1016.	6.7	152
29	Synthesis of TOPO-capped Mn-doped ZnS and CdS quantum dots. Journal of Materials Chemistry, 2001, 11, 2382-2386.	6.7	148
30	Cadmium ethylxanthate: A novel single-source precursor for the preparation of CdS nanoparticles. Journal of Materials Chemistry, 2002, 12, 2722-2725.	6.7	144
31	Fully printed high performance humidity sensors based on two-dimensional materials. Nanoscale, 2018, 10, 5599-5606.	2.8	142
32	The effect of processing conditions on varistors prepared from nanocrystalline ZnO. Journal of Materials Chemistry, 2003, 13, 2586-2590.	6.7	138
33	Synthesis of Lateral Size-Controlled Monolayer 1H-MoS₂@Oleylamine as Supercapacitor Electrodes.. Chemistry of Materials, 2016, 28, 657-664.	3.2	134
34	A New Route to Antimony Telluride Nanoplates from a Single-Source Precursor. Journal of the American Chemical Society, 2006, 128, 3120-3121.	6.6	133
35	Organotin Dithiocarbamates: Single-Source Precursors for Tin Sulfide Thin Films by Aerosol-Assisted Chemical Vapor Deposition (AACVD). Chemistry of Materials, 2013, 25, 266-276.	3.2	129
36	Routes to Nanostructured Inorganic Materials with Potential for Solar Energy Applications. Chemistry of Materials, 2013, 25, 3551-3569.	3.2	129

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37	A Role for Molecular Oxygen in the Formation of DNA Damage during the Reduction of the Carcinogen Chromium(VI) by Glutathione. Archives of Biochemistry and Biophysics, 1996, 329, 199-207.	1.4	127
38	Using coordination chemistry to develop new routes to semiconductor and other materials. Coordination Chemistry Reviews, 2007, 251, 1878-1888.	9.5	124
39	Correlating Catalytic Activity of Agâ€“Au Nanoparticles with 3D Compositional Variations. Nano Letters, 2014, 14, 1921-1926.	4.5	119
40	Deposition of Bismuth Chalcogenide Thin Films Using Novel Single-Source Precursors by Metal-Organic Chemical Vapor Deposition. Chemistry of Materials, 2004, 16, 3289-3298.	3.2	117
41	The preparation of cobalt phosphide and cobalt chalcogenide (CoX, X = S, Se) nanoparticles from single source precursors. Journal of Materials Chemistry, 2010, 20, 2329.	6.7	117
42	Surface-Enhanced Raman Scattering from Intracellular and Extracellular Bacterial Locations. Analytical Chemistry, 2008, 80, 6741-6746.	3.2	114
43	Synthesis of Single-Crystalline CoP Nanowires by a One-Pot Metalâ“Organic Route. Journal of the American Chemical Society, 2005, 127, 16020-16021.	6.6	112
44	Transient Optical Studies of Interfacial Charge Transfer at Nanostructured Metal Oxide/PbS Quantum Dot/Organic Hole Conductor Heterojunctions. Journal of the American Chemical Society, 2010, 132, 2743-2750.	6.6	110
45	The synthesis of amine-capped magnetic (Fe, Mn, Co, Ni) oxide nanocrystals and their surface modification for aqueous dispersibility. Journal of Materials Chemistry, 2006, 16, 2175.	6.7	109
46	Novel precursors for the growth of Î±-In2S3: trisdialkyldithiocarbamates of indium. Thin Solid Films, 1998, 315, 57-61.	0.8	106
47	Growth of epitaxial and highly oriented thin films of cadmium and cadmium zinc sulfide by low-pressure metalorganic chemical vapour deposition using diethyldithiocarbamates. Journal of Crystal Growth, 1989, 96, 989-992.	0.7	105
48	Preparation of zinc oxide and zinc sulfide powders by controlled precipitation from aqueous solution. Journal of Materials Chemistry, 1994, 4, 1611.	6.7	101
49	Speciation and the nature of ZnO thin films from chemical bath deposition. Journal of Materials Chemistry, 1996, 6, 1135.	6.7	101
50	Chronic pulmonary cavitary tuberculosis in rabbits: a failed host immune response. Open Biology, 2011, 1, 110016.	1.5	99
51	Growth of lead chalcogenide thin films using single-source precursors. Journal of Materials Chemistry, 2004, 14, 1310.	6.7	96
52	The chemical vapor deposition of Cu2ZnSnS4 thin films. Chemical Science, 2011, 2, 1170.	3.7	95
53	Chromium(V) can be generated in the reduction of chromium(VI) by glutathione. Inorganica Chimica Acta, 1985, 108, L19-L20.	1.2	94
54	A greener route to photoelectrochemically active PbS nanoparticles. Journal of Materials Chemistry, 2010, 20, 2336.	6.7	93

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55	On the interaction of copper(<scp>ii</scp>) with disulfiram. Chemical Communications, 2014, 50, 13334-13337.	2.2	92
56	Single source molecular precursors for the deposition of III/VI chalcogenide semiconductors by MOCVD and related techniques. Dalton Transactions RSC, 2000, , 4479-4486.	2.3	91
57	Deposition and characterisation of ZnO thin films grown by chemical bath deposition. Thin Solid Films, 1995, 271, 35-38.	0.8	88
58	The crystal and molecular structure of N,N-diethyldiselenocarbamatocadmium(II): Cadmium and zinc diethyldiselenocarbamates as precursors for selenides. Polyhedron, 1992, 11, 45-48.	1.0	87
59	Evidence that the reactions of cadmium in the presence of metallothionein can produce hydroxyl radicals. Archives of Toxicology, 1998, 72, 690-700.	1.9	87
60	Remarkable Magneto-Optical Properties of Europium Selenide Nanoparticles with Wide Energy Gaps. Journal of the American Chemical Society, 2008, 130, 5710-5715.	6.6	87
61	Routes to tin chalcogenide materials as thin films or nanoparticles: a potentially important class of semiconductor for sustainable solar energy conversion. Inorganic Chemistry Frontiers, 2014, 1, 577-598.	3.0	87
62	Nearâ€Unity Quantum Yields from Chloride Treated CdTe Colloidal Quantum Dots. Small, 2015, 11, 1548-1554.	5.2	86
63	A one-step synthesis of cadmium selenide quantum dots from a novel single source precursor. Chemical Communications, 2003, , 1454.	2.2	85
64	The N-alkyldithiocarbamato complexes [M(S2CNHR)2] (M = Cd(ii) Zn(ii); R = C2H5, C4H9, C6H13, C12H25); their synthesis, thermal decomposition and use to prepare of nanoparticles and nanorods of CdS. Dalton Transactions, 2006, , 4499.	1.6	85
65	Nanocrystalline ZnO with Ultraviolet Luminescence. Journal of Physical Chemistry B, 2006, 110, 4099-4104.	1.2	85
66	Ambient-air-stable inorganic Cs₂SnI₆double perovskite thin filmsviaaerosol-assisted chemical vapour deposition. Journal of Materials Chemistry A, 2018, 6, 11205-11214.	5.2	85
67	Single-molecule precursor chemistry for the deposition of chalcogenide(S or Se)-containing compound semiconductors by MOCVD and related methods. Journal of Materials Chemistry, 1995, 5, 1761.	6.7	84
68	Quantum dot-labelled polymer beads by suspension polymerisation. Chemical Communications, 2003, , 2532.	2.2	84
69	In Situ Synthesis of PbS Nanocrystals in Polymer Thin Films from Lead(II) Xanthate and Dithiocarbamate Complexes: Evidence for Size and Morphology Control. Chemistry of Materials, 2015, 27, 2127-2136.	3.2	84
70	Shining a light on transition metal chalcogenides for sustainable photovoltaics. Chemical Science, 2017, 8, 4177-4187.	3.7	84
71	Synthesis and X-ray single crystal structures of bis(diisobutyldithiophosphinato)cadmium(II) or zinc(II): Potential single-source precursors for II/VI materials. Polyhedron, 2000, 19, 211-215.	1.0	83
72	Deposition of iron sulfide nanocrystals from single source precursors. Journal of Materials Chemistry, 2011, 21, 9737.	6.7	82

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73	A simple one phase preparation of organically capped gold nanocrystals. Chemical Communications, 2000, , 183-184.	2.2	81
74	Deposition of II-VI Thin Films by LP-MOCVD Using Novel Single-Source Precursors. European Journal of Inorganic Chemistry, 2004, 2004, 171-177.	1.0	79
75	Uniform NH4TiOF3mesocrystals prepared by an ambient temperature self-assembly process and their topotaxial conversion to anatase. Chemical Communications, 2007, , 144-146.	2.2	78
76	Power law carrier dynamics in semiconductor nanocrystals at nanosecond timescales. Applied Physics Letters, 2008, 92, 101111.	1.5	78
77	Solid state synthesis of tin-doped ZnO at room temperature: Characterization and its enhanced gas sensing and photocatalytic properties. Journal of Hazardous Materials, 2011, 193, 194-199.	6.5	78
78	Thin Films of Molybdenum Disulfide Doped with Chromium by Aerosol-Assisted Chemical Vapor Deposition (AACVD). Chemistry of Materials, 2015, 27, 1367-1374.	3.2	78
79	In situ investigation of degradation at organometal halide perovskite surfaces by X-ray photoelectron spectroscopy at realistic water vapour pressure. Chemical Communications, 2017, 53, 5231-5234.	2.2	78
80	The chemistry underlying chromate toxicity. Transition Metal Chemistry, 1995, 20, 636-642.	0.7	77
81	Chemical routes to chalcogenide materials as thin films or particles with critical dimensions with the order of nanometres. Journal of Materials Chemistry, 2010, 20, 4031.	6.7	77
82	A single-source route to CdS nanorods. Chemical Communications, 2002, , 564-565.	2.2	76
83	Phase Control in the Synthesis of Magnetic Iron Sulfide Nanocrystals From a Cubane-Type Feâ˜S Cluster. Journal of the American Chemical Society, 2008, 130, 17256-17257.	6.6	76
84	Electronic and surface properties of PbS nanoparticles exhibiting efficient multiple exciton generation. Physical Chemistry Chemical Physics, 2011, 13, 20275.	1.3	76
85	The interaction of Î²-N -methylamino-L-alanine with bicarbonate: an 1 H-NMR study. FEBS Letters, 1989, 251, 31-35.	1.3	75
86	Metal complexes of selenophosphinates from reactions with (R2PSe)2Se: [M(R2PSe2)n] (M = ZnII, CdII,) Tj ETQq0 0 0 rgBT /Overlock 10 2182.	2.2	75
87	Ambient pressure aerosol-assisted chemical vapour deposition of (CH₃NH₃)PbBr₃, an inorganicâ€“organic perovskite important in photovoltaics. Chemical Communications, 2014, 50, 6319-6321.	2.2	75
88	Thin films of tin(II) sulphide (SnS) by aerosol-assisted chemical vapour deposition (AACVD) using tin(II) dithiocarbamates as single-source precursors. Journal of Crystal Growth, 2015, 415, 93-99.	0.7	75
89	Storage lipid studies in tuberculosis reveal that foam cell biogenesis is disease-specific. PLoS Pathogens, 2018, 14, e1007223.	2.1	75
90	Mixed alkyl dialkylthiocarbamates of zinc and cadmium: potential precursors for II/VI materials. X-ray crystal structure of [MeZnS2CNEt2]2. Organometallics, 1991, 10, 730-732.	1.1	74

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91	Surface Properties of Nanocrystalline PbS Films Deposited at the Waterâ€“Oil Interface: A Study of Atmospheric Aging. Langmuir, 2015, 31, 1445-1453.	1.6	74
92	Electronic properties and crystal structure of (2,2â€²-bipyridyl)-catena-Âµ-(oxalato-O1O2: O1â€²O2â€²)-copper(II) dihydrate and aqua(2,2â€²-bipyridyl)-(oxalato-O1O2)copper(II) dihydrate. Journal of the Chemical Society Dalton Transactions, 1982, , 1117-1121.	1.1	73
93	Synthesis, characterization and x-ray crystal structures of asymmetric bis(dialkyldithiocarbamates) of zinc: Potential precursors for ZnS deposition. Polyhedron, 1996, 15, 2801-2808.	1.0	71
94	Deposition and characterization of cadmium sulfide thin films by chemical bath deposition. Journal of Crystal Growth, 1996, 158, 497-504.	0.7	71
95	Chemical Vapor Deposition of Indium Selenide and Gallium Selenide Thin Films from Mixed Alkyl/Dialkylselenophosphorylamides. Chemistry of Materials, 2003, 15, 4205-4210.	3.2	71
96	The single molecular precursor approach to metal telluride thin films: imino-bis(diisopropylphosphine tellurides) as examples. Chemical Society Reviews, 2007, 36, 1622.	18.7	71
97	Host-Mediated Bioactivation of Pyrazinamide: Implications for Efficacy, Resistance, and Therapeutic Alternatives. ACS Infectious Diseases, 2015, 1, 203-214.	1.8	71
98	Physicochemical and physiological effects on the uptake of dissolved zinc and cadmium by the amphipod crustacean Orchestia gammarellus. Aquatic Toxicology, 1993, 25, 15-30.	1.9	70
99	Pyramidal Lead Sulfide Crystallites With High Energy {113} Facets. Journal of the American Chemical Society, 2008, 130, 10892-10894.	6.6	70
100	Metal complexes of thiobiurets and dithiobiurets: Novel single source precursors for metal sulfide thin film nanostructures. Dalton Transactions, 2010, 39, 1460-1463.	1.6	70
101	New routes to copper sulfide nanostructures and thin films. Journal of Materials Chemistry, 2011, 21, 17888.	6.7	70
102	Synthesis of ZnO Hexagonal Single-Crystal Slices with Predominant (0001) and (0001Ì…) Facets by Poly(ethylene glycol)-Assisted Chemical Bath Deposition. Journal of the American Chemical Society, 2009, 131, 15106-15107.	6.6	69
103	Title is missing!. Journal of Materials Science: Materials in Electronics, 2002, 13, 531-535.	1.1	68
104	Synthesis, Structures, and Multinuclear NMR Spectra of Tin(II) and Lead(II) Complexes of Tellurium-Containing Imidodiphosphinate Ligands: Preparation of Two Morphologies of Phase-Pure PbTe from a Single-Source Precursor. Inorganic Chemistry, 2010, 49, 1198-1205.	1.9	68
105	Synthesis of isotopically modified ZnO nanoparticles and their potential as nanotoxicity tracers. Environmental Pollution, 2011, 159, 266-273.	3.7	68
106	Synthesis and Characterization of Some Mixed Alkyl Thiocarbamates of Gallium and Indium, Precursors for III/VI Materials: The X-ray Single-Crystal Structures of Dimethyl- and Diethylindium Diethyldithiocarbamate. Chemistry of Materials, 1995, 7, 716-724.	3.2	67
107	The X-ray crystal structures of the cadmium complexes of pyridine-1-thiol and mercaptobenzothiazole, [cd(C5H4NS)2]n And [Cd(C7H4N2S2)2]n: Two unusual volatile polymeric complexes. Polyhedron, 1990, 9, 541-544.	1.0	66
108	Synthesis of CdS and CdSe nanoparticles by thermolysis of diethyldithio-or diethyldiseleno-carbamates of cadmium. Journal of Materials Chemistry, 1996, 6, 343.	6.7	66

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109	Uptake of chromium (III) complexes by erythrocytes. Toxicological and Environmental Chemistry, 1987, 14, 23-32.	0.6	65
110	Single-source molecular precursors for the deposition of zinc selenide quantum dots. Journal of Materials Chemistry, 1998, 8, 1885-1888.	6.7	65
111	The synthesis, X-ray structures and CVD studies of some group 11 complexes of iminobis(diisopropylphosphine selenides) and their use in the deposition of I/III/VI photovoltaic materials. Journal of Materials Chemistry, 2004, 14, 233.	6.7	65
112	Selective excitation of Eu³⁺in the core of small Î²-NaGdF₄nanocrystals. Journal of Materials Chemistry C, 2013, 1, 801-807.	2.7	65
113	Ethambutol Partitioning in Tuberculous Pulmonary Lesions Explains Its Clinical Efficacy. Antimicrobial Agents and Chemotherapy, 2017, 61, .	1.4	65
114	Indium sulfide nanorods from single-source precursor. Chemical Communications, 2004, , 334.	2.2	64
115	Cobalt(II) complexes of the antibiotic sulfadiazine, the X-ray single crystal structure of [Co(C10H9N4O2S)2(CH3OH)2]. Inorganica Chimica Acta, 2006, 359, 3111-3116.	1.2	64
116	Synthesis of the nickel selenophosphinates [Ni(Se2PR2)2] (R = iPr, tBu and Ph) and their use as single source precursors for the deposition of nickel phosphide or nickel selenide nanoparticles. Dalton Transactions, 2009, , 2103.	1.6	64
117	Asymmetric MoS₂/Graphene/Metal Sandwiches: Preparation, Characterization, and Application. Advanced Materials, 2016, 28, 8256-8264.	11.1	64
118	Gallium arsenide nanoparticles: synthesis and characterisation. Journal of Materials Chemistry, 2003, 13, 2591.	6.7	63
119	A novel method for synthesizing EuS nanocrystals from a single-source precursor under white LED irradiation. Chemical Communications, 2005, , 242.	2.2	63
120	Structural studies of some Group 12 metal alkyl adducts: the X-ray crystal structures of Me2Zn[Me2N(CH2)2NMe 2], Me2Cd[Me2N(CH2)2NMe2], (Me3CCH2)2Zn[Me2N(CH2)2NMe2] and (Me3CCH2)2Cd[Me2N(CH2)2NMe2]. Journal of Organometallic Chemistry, 1993, 449, 1-8.	0.8	62
121	Deposition of CdSe thin films using a novel single-source precursor; [MeCd{(SePiPr2)2N}]2. Journal of Materials Chemistry, 2003, 13, 639-640.	6.7	62
122	Thio- and Dithio-Biuret Precursors for Zinc Sulfide, Cadmium Sulfide, and Zinc Cadmium Sulfide Thin Films. Chemistry of Materials, 2011, 23, 1471-1481.	3.2	62
123	Salicylideneserinato complexes of vanadium. Crystal structure of the sodium salt of a complex of vanadium-(IV) and -(V). Journal of the Chemical Society Dalton Transactions, 1992, , 1745.	1.1	61
124	Neopentyl- or tert-butylzinc complexes with diethylthio- or diethylselenocarbamates: precursors for zinc chalcogens. Organometallics, 1992, 11, 3136-3139.	1.1	61
125	Properties of cadmium sulphide films grown by single-source metalorganic chemical vapour deposition with dithiocarbamate precursors. Journal of Crystal Growth, 1996, 167, 133-142.	0.7	61
126	Novel approach to the chemical bath deposition of chalcogenide semiconductors. Thin Solid Films, 2000, 361-362, 150-154.	0.8	61

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127	Single source molecular precursor routes to lead chalcogenides. Dalton Transactions, 2012, 41, 10497.	1.6	60
128	The CVD of silver selenide films from dichalcogenophosphinato and imidodichalcogenodiphosphinatosilver(I) single-source precursors. Journal of Materials Chemistry, 2009, 19, 419-427.	6.7	59
129	Controlled Synthesis of Tuned Bandgap Nanodimensional Alloys of PbS_xSe_{1â^'x}. Journal of the American Chemical Society, 2011, 133, 5602-5609.	6.6	59
130	Transition metal doped pyrite (FeS₂) thin films: structural properties and evaluation of optical band gap energies. Journal of Materials Chemistry C, 2015, 3, 12068-12076.	2.7	59
131	Novel singleÂmolecule precursor routes for the direct synthesis of InS and InSe quantum dots. Journal of Materials Chemistry, 1999, 9, 2885-2888.	6.7	58
132	Synthesis and characterisation of some N-alkyl/aryl and N,Nâ€²-dialkyl/aryl thiourea cadmium(II) complexes: the single crystal X-ray structures of [CdCl2(CS(NH2)NHCH3)2]n and [CdCl2(CS(NH2)NHCH2CH3)2]. Polyhedron, 2003, 22, 595-603.	1.0	58
133	Investigation of the Internal Heterostructure of Highly Luminescent Quantum Dotâ^'Quantum Well Nanocrystals. Journal of the American Chemical Society, 2009, 131, 470-477.	6.6	58
134	A simple route to synthesise nanodimensional CdSeâ€“CdS coreâ€“shell structures from single molecule precursors. Chemical Communications, 1999, , 1573-1574.	2.2	57
135	Chemical vapour deposition of IIâ€“VI semiconductor thin films using M[(TePiPr2)2N]2(M = Cd, Hg) as single-source precursors. Journal of Materials Chemistry, 2006, 16, 966-969.	6.7	56
136	Bis(piperidinedithiocarbamato)pyridinecadmium(<scp>ii</scp>) as a single-source precursor for the synthesis of CdS nanoparticles and aerosol-assisted chemical vapour deposition (AACVD) of CdS thin films. New Journal of Chemistry, 2014, 38, 6073-6080.	1.4	55
137	Comparison of solar cells sensitised by CdTe/CdSe and CdSe/CdTe core/shell colloidal quantum dots with and without a CdS outer layer. Thin Solid Films, 2014, 560, 65-70.	0.8	55
138	A novel metalorganic route for the direct and rapid synthesis of monodispersed quantum dots of indium phosphide. Chemical Communications, 1998, , 2459-2460.	2.2	54
139	A novel single source precursor route to self capping CdS quantum dots. Chemical Communications, 1999, , 2041-2042.	2.2	54
140	Novel inorganic rings and materials deposition. Journal of Organometallic Chemistry, 2007, 692, 2669-2677.	0.8	54
141	Nickel and Iron Sulfide Nanoparticles from Thiobiurets. Journal of Physical Chemistry C, 2012, 116, 2253-2259.	1.5	54
142	Mixed methyl and ethylzinc complexes with diethylselenocarbamate: novel precursors for zinc selenide. Chemistry of Materials, 1991, 3, 999-1000.	3.2	53
143	Synthesis of PbSe nanocrystallites using a single-source method. The X-ray crystal structure of lead (II) diethyldiselenocarbamate. Polyhedron, 1999, 18, 1171-1175.	1.0	53
144	Preparation of zinc containing materials. New Journal of Chemistry, 2007, 31, 2029.	1.4	53

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145	Synthesis and characterization of some mixed alkyl selenocarbamates of zinc and cadmium: novel precursors for II/VI materials. Journal of Materials Chemistry, 1992, 2, 949.	6.7	52
146	Studies of the thermal decomposition of some diselenocarbamato complexes of cadmium or zinc: molecular design for the deposition of MSe films by CVD. Journal of Materials Chemistry, 1999, 9, 2433-2437.	6.7	52
147	A Novel Metalorganic Route to Nanocrystallites of Zinc Phosphide. Chemistry of Materials, 2001, 13, 4500-4505.	3.2	52
148	Tribenzyltin(IV)chloride Thiosemicarbazones: Novel Single Source Precursors for Growth of SnS Thin Films. Chemical Vapor Deposition, 2008, 14, 292-295.	1.4	52
149	The Use of Bismuth(III) Dithiocarbamato Complexes as Precursors for the Low-Pressure MOCVD of Bi2S3. Chemical Vapor Deposition, 2000, 6, 230-232.	1.4	51
150	Deposition of zinc sulfide quantum dots from a single-source molecular precursor. Journal of Materials Research, 1999, 14, 3237-3240.	1.2	50
151	Controlled synthesis of PbS nanoparticles and the deposition of thin films by Aerosol-Assisted Chemical Vapour Deposition (AACVD). Journal of Materials Chemistry, 2010, 20, 6116.	6.7	50
152	Flow reactor synthesis of CdSe, CdS, CdSe/CdS and CdSeS nanoparticles from single molecular precursor(s). Journal of Materials Chemistry, 2011, 21, 18768.	6.7	50
153	A One-Pot Synthesis of Monodispersed Iron Cobalt Oxide and Iron Manganese Oxide Nanoparticles from Bimetallic Pivalate Clusters. Chemistry of Materials, 2014, 26, 999-1013.	3.2	50
154	Mechanical Properties of Molybdenum Disulfide and the Effect of Doping: An in Situ TEM Study. ACS Applied Materials & Interfaces, 2015, 7, 20829-20834.	4.0	50
155	MOCVD Layer growth of ZnSe and ZnS / ZnSe multiple layers using nitrogen containing adducts of dimethylzinc. Journal of Crystal Growth, 1990, 104, 601-609.	0.7	49
156	A colloidal synthesis of CuInSe2, CuGaSe2 and CuIn1â˜'xGaxSe2 nanoparticles from diisopropyldiselenophosphinatometal precursors. Nanoscale, 2011, 3, 5132.	2.8	49
157	Heterocyclic dithiocarbamato-iron(<scp>iii</scp>) complexes: single-source precursors for aerosol-assisted chemical vapour deposition (AACVD) of iron sulfide thin films. Dalton Transactions, 2016, 45, 2647-2655.	1.6	49
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