Paul O brien

List of Publications by Citations

609 papers	22,794 citations	71 h-index	120 g-index
628 ext. papers	24,518 ext. citations	5.6 avg, IF	7 L-index

#	Paper	IF	Citations
609	Nanocrystalline Semiconductors: Synthesis, Properties, and Perspectives. *Chemistry of Materials*, **2001**, 13, 3843-3858	9.6	1081
608	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		654
607	Production of few-layer phosphorene by liquid exfoliation of black phosphorus. *Chemical Communications*, **2014**, 50, 13338-41	5.8	556
606	Synthesis, Properties, and Applications of Transition Metal-Doped Layered Transition Metal Dichalcogenides. *Chemistry of Materials*, **2016**, 28, 1965-1974	9.6	304
605	The association between sterilizing activity and drug distribution into tuberculosis lesions. *Nature Medicine*, **2015**, 21, 1223-7	50.5	293
604	Precursor chemistry for main group elements in semiconducting materials. *Chemical Reviews*, **2010**, 110, 4417-46	68.1	284
603	Optical properties of ZnO nanocrystals doped with Cd, Mg, Mn, and Fe ions. *Journal of Physical Chemistry B*, **2006**, 110, 21412-5	3.4	264
602	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	4.8	260
601	Synthesis of CdS and CdSe Nanocrystallites Using a Novel Single-Molecule Precursors Approach. *Chemistry of Materials*, **1997**, 9, 523-530	9.6	248
600	Air-Stable Single-Source Precursors for the Synthesis of Chalcogenide Semiconductor Nanoparticles. *Chemistry of Materials*, **2001**, 13, 913-920	9.6	246
599	Hybrid polymer/metal oxide solar cells based on ZnO columnar structures. *Journal of Materials Chemistry*, **2006**, 16, 2088		244
598	Room-Temperature Lasing Observed from ZnO Nanocolumns Grown by Aqueous Solution Deposition. *Advanced Materials*, **2002**, 14, 1221-1224	24	223
597	Mesocrystals: a new class of solid materials. *Small*, **2008**, 4, 1566-74	11	221
596	Developing an understanding of the processes controlling the chemical bath deposition of ZnS and CdS. *Journal of Materials Chemistry*, **1998**, 8, 2309-2314		213
595	Quantum-dot concentrator and thermodynamic model for the global redshift. *Applied Physics Letters*, **2000**, 76, 1197-1199	3.4	211
594	Tin(II) Sulfide (SnS) Nanosheets by Liquid-Phase Exfoliation of Herzenbergite: IV-VI Main Group Two-Dimensional Atomic Crystals. *Journal of the American Chemical Society*, **2015**, 137, 12689-96	16.4	187
593	Routes to copper zinc tin sulfide Cu2ZnSnS4 a potential material for solar cells. *Chemical Communications*, **2012**, 48, 5703-14	5.8	186

592	Recent developments in IIVI and IIIV semiconductors and their applications in solar cells. *Journal of Materials Chemistry*, **2006**, 16, 1597-1602		185
591	A Simple Route to the Synthesis of Core/Shell Nanoparticles of Chalcogenides. *Chemistry of Materials*, **2002**, 14, 2004-2010	9.6	185
590	The chemical vapor deposition of nickel phosphide or selenide thin films from a single precursor. *Journal of the American Chemical Society*, **2008**, 130, 2420-1	16.4	179
589	A Novel Route for the Preparation of CuSe and CuInSe2 Nanoparticles. *Advanced Materials*, **1999**, 11, 1441-1444	24	173
588	Mesocrystals - Properties and Applications. *Journal of Physical Chemistry Letters*, **2012**, 3, 620-8	6.4	164
587	A facile synthesis of uniform NH4TiOF3 mesocrystals and their conversion to TiO2 mesocrystals. *Journal of the American Chemical Society*, **2008**, 130, 1309-20	16.4	164
586	Nanostructured Aptamer-Functionalized Black Phosphorus Sensing Platform for Label-Free Detection of Myoglobin, a Cardiovascular Disease Biomarker. *ACS Applied Materials & Interfaces*, **2016**, 8, 22860-8	9.5	164
585	Syntheses of semiconductor nanoparticles using single-molecular precursors. *Chemical Record*, **2001**, 1, 467-79	6.6	150
584	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**, 80-1	5.8	149
583	Synthesis of PbS nanocrystallites using a novel single moleculeprecursors approach: X-ray single-crystal structure ofPb(S2CNEtPri)2. *Journal of Materials Chemistry*, **1997**, 7, 1011-1016		140
582	Synthesis of TOPO-capped Mn-doped ZnS and CdS quantum dots. *Journal of Materials Chemistry*, **2001**, 11, 2382-2386		138
581	A single source approach to the synthesis of CdSe nanocrystallites. *Advanced Materials*, **1996**, 8, 161-16324		132
580	A new route to antimony telluride nanoplates from a single-source precursor. *Journal of the American Chemical Society*, **2006**, 128, 3120-1	16.4	131
579	Cadmium ethylxanthate: A novel single-source precursor for the preparation of CdS nanoparticles. *Journal of Materials Chemistry*, **2002**, 12, 2722-2725		131
578	The effect of processing conditions on varistors prepared from nanocrystalline ZnO. *Journal of Materials Chemistry*, **2003**, 13, 2586-2590		126
577	Using coordination chemistry to develop new routes to semiconductor and other materials. *Coordination Chemistry Reviews*, **2007**, 251, 1878-1888	23.2	122
576	Routes to Nanostructured Inorganic Materials with Potential for Solar Energy Applications. *Chemistry of Materials*, **2013**, 25, 3551-3569	9.6	118
575	Synthesis of Lateral Size-Controlled Monolayer 1H-MoS2@Oleylamine as Supercapacitor Electrodes.. *Chemistry of Materials*, **2016**, 28, 657-664	9.6	115

574	Organotin Dithiocarbamates: Single-Source Precursors for Tin Sulfide Thin Films by Aerosol-Assisted Chemical Vapor Deposition (AACVD). *Chemistry of Materials*, **2013**, 25, 266-276	9.6	115
573	Correlating catalytic activity of Ag-Au nanoparticles with 3D compositional variations. *Nano Letters*, **2014**, 14, 1921-6	11.5	113
572	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	4.1	111
571	Deposition of Bismuth Chalcogenide Thin Films Using Novel Single-Source Precursors by Metal-Organic Chemical Vapor Deposition. *Chemistry of Materials*, **2004**, 16, 3289-3298	9.6	108
570	The preparation of cobalt phosphide and cobalt chalcogenide (CoX, X = S, Se) nanoparticles from single source precursors. *Journal of Materials Chemistry*, **2010**, 20, 2329		107
569	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, 2743-50	16.4	103
568	Surface-enhanced Raman scattering from intracellular and extracellular bacterial locations. *Analytical Chemistry*, **2008**, 80, 6741-6	7.8	102
567	Fully printed high performance humidity sensors based on two-dimensional materials. *Nanoscale*, **2018**, 10, 5599-5606	7.7	101
566	Synthesis of single-crystalline CoP nanowires by a one-pot metal-organic route. *Journal of the American Chemical Society*, **2005**, 127, 16020-1	16.4	100
565	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		100
564	Preparation of zinc oxide and zinc sulfide powders by controlled precipitation from aqueous solution. *Journal of Materials Chemistry*, **1994**, 4, 1611		94
563	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	1.6	93
562	Speciation and the nature of ZnO thin films from chemical bath deposition. *Journal of Materials Chemistry*, **1996**, 6, 1135		90
561	Growth of lead chalcogenide thin films using single-source precursors. *Journal of Materials Chemistry*, **2004**, 14, 1310		88
560	Chromium(V) can be generated in the reduction of chromium(VI) by glutathione. *Inorganica Chimica Acta*, **1985**, 108, L19-L20	2.7	88
559	Chronic pulmonary cavitary tuberculosis in rabbits: a failed host immune response. *Open Biology*, **2011**, 1, 110016	7	85
558	Novel precursors for the growth of In2S3: trisdialkyldithiocarbamates of indium. *Thin Solid Films*, **1998**, 315, 57-61	2.2	84
557	A greener route to photoelectrochemically active PbS nanoparticles. *Journal of Materials Chemistry*, **2010**, 20, 2336		83

556	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		83
555	Single source molecular precursors for the deposition of III/VI chalcogenide semiconductors by MOCVD and related techniques. *Dalton Transactions RSC*, **2000**, 4479-4486		82
554	Nanocrystalline ZnO with ultraviolet luminescence. *Journal of Physical Chemistry B*, **2006**, 110, 4099-104	3.4	81
553	The chemical vapor deposition of Cu2ZnSnS4 thin films. *Chemical Science*, **2011**, 2, 1170	9.4	80
552	Remarkable magneto-optical properties of europium selenide nanoparticles with wide energy gaps. *Journal of the American Chemical Society*, **2008**, 130, 5710-5	16.4	80
551	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**, 4499-505	4.3	79
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549	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	9.6	77
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544	Deposition of II-VI Thin Films by LP-MOCVD Using Novel Single-Source Precursors. *European Journal of Inorganic Chemistry*, **2004**, 2004, 171-177	2.3	74
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542	The interaction of beta-N-methylamino-L-alanine with bicarbonate: an 1H-NMR study. *FEBS Letters*, **1989**, 251, 31-5	3.8	73
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540	A single-source route to CdS nanorods. *Chemical Communications*, **2002**, 564-5	5.8	72
539	Deposition and characterisation of ZnO thin films grown by chemical bath deposition. *Thin Solid Films*, **1995**, 271, 35-38	2.2	72

538	Metal complexes of selenophosphinates from reactions with (R2PSe)2Se: [M(R2PSe2)n] (M = Zn(II), Cd(II), Pb(II), In(III), Ga(III), Cu(I), Bi(III), Ni(II); R = (i)Pr, Ph) and [Mo(V)2O2Se2(Se2P(i)Pr2)2]. *Chemical Communications*, **2006**, 2182-4	5.8	71
537	The crystal and molecular structure of N,N-diethyldiselenocarbamatocadmium(II): Cadmium and zinc diethyldiselenocarbamates as precursors for selenides. *Polyhedron*, **1992**, 11, 45-48	2.7	71
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535	Deposition of iron sulfide nanocrystals from single source precursors. *Journal of Materials Chemistry*, **2011**, 21, 9737		70
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533	Phase control in the synthesis of magnetic iron sulfide nanocrystals from a cubane-type Fe-S cluster. *Journal of the American Chemical Society*, **2008**, 130, 17256-7	16.4	70
532	Near-unity quantum yields from chloride treated CdTe colloidal quantum dots. *Small*, **2015**, 11, 1548-54	11	69
531	On the interaction of copper(II) with disulfiram. *Chemical Communications*, **2014**, 50, 13334-7	5.8	69
530	Electronic and surface properties of PbS nanoparticles exhibiting efficient multiple exciton generation. *Physical Chemistry Chemical Physics*, **2011**, 13, 20275-83	3.6	68
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528	Power law carrier dynamics in semiconductor nanocrystals at nanosecond timescales. *Applied Physics Letters*, **2008**, 92, 101111	3.4	68
527	Ambient pressure aerosol-assisted chemical vapour deposition of $(CH_3NH_3)PbBr_3$ an inorganic-organic perovskite important in photovoltaics. *Chemical Communications*, **2014**, 50, 6319-21	5.8	67
526	Synthesis of ZnO hexagonal single-crystal slices with predominant (0001) and (0001) facets by poly(ethylene glycol)-assisted chemical bath deposition. *Journal of the American Chemical Society*, **2009**, 131, 15106-7	16.4	67
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524	The single molecular precursor approach to metal telluride thin films: imino-bis(diisopropylphosphine tellurides) as examples. *Chemical Society Reviews*, **2007**, 36, 1622-31	58.5	67
523	Shining a light on transition metal chalcogenides for sustainable photovoltaics. *Chemical Science*, **2017**, 8, 4177-4187	9.4	66
522	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	1.6	65
521	New routes to copper sulfide nanostructures and thin films. *Journal of Materials Chemistry*, **2011**, 21, 17888		65

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518	The growth of thin films of copper chalcogenide films by MOCVD and AACVD using novel single-molecule precursors. *Journal of Materials Science: Materials in Electronics*, **2002**, 13, 531-535	2.1	63
517	Host-Mediated Bioactivation of Pyrazinamide: Implications for Efficacy, Resistance, and Therapeutic Alternatives. *ACS Infectious Diseases*, **2015**, 1, 203-214	5.5	62
516	Thin Films of Molybdenum Disulfide Doped with Chromium by Aerosol-Assisted Chemical Vapor Deposition (AACVD). *Chemistry of Materials*, **2015**, 27, 1367-1374	9.6	62
515	Synthesis of isotopically modified ZnO nanoparticles and their potential as nanotoxicity tracers. *Environmental Pollution*, **2011**, 159, 266-273	9.3	62
514	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, 1198-205	5.1	62
513	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		62
512	The chemistry underlying chromate toxicity. *Transition Metal Chemistry*, **1995**, 20, 636-642	2.1	62
511	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	3.8	62
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509	Indium sulfide nanorods from single-source precursor. *Chemical Communications*, **2004**, 334-5	5.8	61
508	Single-source molecular precursors for the deposition of zinc selenide quantum dots. *Journal of Materials Chemistry*, **1998**, 8, 1885-1888		60
507	Gallium arsenide nanoparticles: synthesis and characterisation. *Journal of Materials Chemistry*, **2003**, 13, 2591		60
506	Synthesis of CdS and CdSe nanoparticles by thermolysis of diethyldithio-or diethyldiseleno-carbamates of cadmium. *Journal of Materials Chemistry*, **1996**, 6, 343		60
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504	Physicochemical and physiological effects on the uptake of dissolved zinc and cadmium by the amphipod crustacean Orchestia gammarellus. *Aquatic Toxicology*, **1993**, 25, 15-30	5.1	60
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501	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	2.3	58
500	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	5.8	57
499	Selective excitation of Eu3+ in the core of small NaGdF4 nanocrystals. *Journal of Materials Chemistry C*, **2013**, 1, 801-807	7.1	57
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496	Uptake of chromium (III) complexes by erythrocytes Presented January 21, 1986 at the 2nd IAEAC Workshop on Carcinogenic and/or Mutagenic Metal Compounds in CH-1884 Villars-sur-Ollon.. *Toxicological and Environmental Chemistry*, **1987**, 14, 23-32	1.4	57
495	Ambient-air-stable inorganic Cs2SnI6 double perovskite thin films via aerosol-assisted chemical vapour deposition. *Journal of Materials Chemistry A*, **2018**, 6, 11205-11214	13	56
494	Single source molecular precursor routes to lead chalcogenides. *Dalton Transactions*, **2012**, 41, 10497-506	4.3	56
493	Thio- and Dithio-Biuret Precursors for Zinc Sulfide, Cadmium Sulfide, and Zinc Cadmium Sulfide Thin Films. *Chemistry of Materials*, **2011**, 23, 1471-1481	9.6	56
492	A novel method for synthesizing EuS nanocrystals from a single-source precursor under white LED irradiation. *Chemical Communications*, **2005**, 242-3	5.8	56
491	Deposition and characterization of cadmium sulfide thin films by chemical bath deposition. *Journal of Crystal Growth*, **1996**, 158, 497-504	1.6	56
490	Chemical vapour deposition of II/VI semiconductor thin films using M[(TePiPr2)2N]2 (M = Cd, Hg) as single-source precursors. *Journal of Materials Chemistry*, **2006**, 16, 966-969		55
489	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	2.7	55
488	Controlled synthesis of tuned bandgap nanodimensional alloys of PbS(x)Se(1-x). *Journal of the American Chemical Society*, **2011**, 133, 5602-9	16.4	54
487	Investigation of the internal heterostructure of highly luminescent quantum dot-quantum well nanocrystals. *Journal of the American Chemical Society*, **2009**, 131, 470-7	16.4	54
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481	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	2.2	51
480	Properties of cadmium sulphide films grown by single-source metalorganic chemical vapour deposition with dithiocarbamate precursors. *Journal of Crystal Growth*, **1996**, 167, 133-142	1.6	51
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474	A novel metalorganic route for the direct and rapid synthesis of monodispersed quantum dots of indium phosphide. *Chemical Communications*, **1998**, 2459-2460	5.8	49
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472	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		49
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470	Nickel and Iron Sulfide Nanoparticles from Thiobiurets. *Journal of Physical Chemistry C*, **2012**, 116, 2253-2259	4.8	47
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468	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	9.6	47
467	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	7.1	46

466	Bis(piperidinedithiocarbamato)pyridinecadmium(II) 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	3.6	46
465	Neopentyl- or tert-butylzinc complexes with diethylthio- or diethylselenocarbamates: precursors for zinc chalcogens. *Organometallics*, **1992**, 11, 3136-3139	3.8	46
464	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	9.6	45
463	Iron thiobiurets: single-source precursors for iron sulfide thin films. *Inorganic Chemistry*, **2010**, 49, 8495-8503	4.8	45
462	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		45
461	The Use of Bismuth(III) Dithiocarbamato Complexes as Precursors for the Low-Pressure MOCVD of Bi2S3. *Chemical Vapor Deposition*, **2000**, 6, 230-232		45
460	Flow reactor synthesis of CdSe, CdS, CdSe/CdS and CdSeS nanoparticles from single molecular precursor(s). *Journal of Materials Chemistry*, **2011**, 21, 18768		44
459	The preparation of antimony chalcogenide and oxide nanomaterials. *Journal of Materials Chemistry*, **2005**, 15, 4949		44
458	Aerosol-assisted chemical vapour deposition of indium telluride thin films from {In(□Te)[N(iPr2PTe)2]}3. *Journal of Materials Chemistry*, **2006**, 16, 4542-4547		44
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