

# David J Lewis

## List of Publications by Citations

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97  
papers

3,557  
citations

30  
h-index

58  
g-index

107  
ext. papers

4,084  
ext. citations

6.6  
avg, IF

5.58  
L-index

#	Paper	IF	Citations
97	Production of few-layer phosphorene by liquid exfoliation of black phosphorus. <i>Chemical Communications</i> , <b>2014</b> , 50, 13338-41	5.8	556
96	Highly luminescent, triple- and quadruple-stranded, dinuclear Eu, Nd, and Sm(III) lanthanide complexes based on bis-diketonate ligands. <i>Journal of the American Chemical Society</i> , <b>2004</b> , 126, 9413-24	16.4	323
95	Synthesis, Properties, and Applications of Transition Metal-Doped Layered Transition Metal Dichalcogenides. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 1965-1974	9.6	304
94	Tin(II) Sulfide (SnS) Nanosheets by Liquid-Phase Exfoliation of Herzenbergite: IV-VI Main Group Two-Dimensional Atomic Crystals. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 12689-96	16.4	187
93	Nanostructured Aptamer-Functionalized Black Phosphorus Sensing Platform for Label-Free Detection of Myoglobin, a Cardiovascular Disease Biomarker. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 22860-8	9.5	164
92	Luminescent nanobeads: attachment of surface reactive Eu(III) complexes to gold nanoparticles. <i>Chemical Communications</i> , <b>2006</b> , 1433-5	5.8	122
91	Fully printed high performance humidity sensors based on two-dimensional materials. <i>Nanoscale</i> , <b>2018</b> , 10, 5599-5606	7.7	101
90	Purely heterometallic lanthanide(III) macrocycles through controlled assembly of disulfide bonds for dual color emission. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 1033-43	16.4	96
89	pH-controlled delivery of luminescent europium coated nanoparticles into platelets. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, 1862-7	11.5	73
88	Routes to tin chalcogenide materials as thin films or nanoparticles: a potentially important class of semiconductor for sustainable solar energy conversion. <i>Inorganic Chemistry Frontiers</i> , <b>2014</b> , 1, 577-598	6.8	72
87	On the interaction of copper(II) with disulfiram. <i>Chemical Communications</i> , <b>2014</b> , 50, 13334-7	5.8	69
86	Ambient pressure aerosol-assisted chemical vapour deposition of (CH <sub>3</sub> NH <sub>3</sub> ) <sub>2</sub> PbBr <sub>3</sub> inorganic-organic perovskite important in photovoltaics. <i>Chemical Communications</i> , <b>2014</b> , 50, 6319-21	5.8	67
85	Shining a light on transition metal chalcogenides for sustainable photovoltaics. <i>Chemical Science</i> , <b>2017</b> , 8, 4177-4187	9.4	66
84	Thin films of tin(II) sulphide (SnS) by aerosol-assisted chemical vapour deposition (AACVD) using tin(II) dithiocarbamates as single-source precursors. <i>Journal of Crystal Growth</i> , <b>2015</b> , 415, 93-99	1.6	65
83	Thin Films of Molybdenum Disulfide Doped with Chromium by Aerosol-Assisted Chemical Vapor Deposition (AACVD). <i>Chemistry of Materials</i> , <b>2015</b> , 27, 1367-1374	9.6	62
82	In situ investigation of degradation at organometal halide perovskite surfaces by X-ray photoelectron spectroscopy at realistic water vapour pressure. <i>Chemical Communications</i> , <b>2017</b> , 53, 5231-5234	5.8	57
81	Ambient-air-stable inorganic Cs <sub>2</sub> SnI <sub>6</sub> double perovskite thin films via aerosol-assisted chemical vapour deposition. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 11205-11214	13	56

80	Solution processing of two-dimensional black phosphorus. <i>Chemical Communications</i> , <b>2017</b> , 53, 1445-1458	5.8	55
79	Transition metal doped pyrite (FeS <sub>2</sub> ) thin films: structural properties and evaluation of optical band gap energies. <i>Journal of Materials Chemistry C</i> , <b>2015</b> , 3, 12068-12076	7.1	46
78	Bis(piperidinedithiocarbamate)pyridinecadmium(II) as a single-source precursor for the synthesis of CdS nanoparticles and aerosol-assisted chemical vapour deposition (AACVD) of CdS thin films. <i>New Journal of Chemistry</i> , <b>2014</b> , 38, 6073-6080	3.6	46
77	De novo design of Ln(III) coiled coils for imaging applications. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 1166-9	16.4	44
76	Heterocyclic dithiocarbamate-iron(III) complexes: single-source precursors for aerosol-assisted chemical vapour deposition (AACVD) of iron sulfide thin films. <i>Dalton Transactions</i> , <b>2016</b> , 45, 2647-55	4.3	43
75	Chemical vapour deposition of rhenium disulfide and rhenium-doped molybdenum disulfide thin films using single-source precursors. <i>Journal of Materials Chemistry C</i> , <b>2016</b> , 4, 2312-2318	7.1	42
74	Mechanical Properties of Molybdenum Disulfide and the Effect of Doping: An in Situ TEM Study. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 20829-34	9.5	41
73	Supercapacitor Electrodes from the in Situ Reaction between Two-Dimensional Sheets of Black Phosphorus and Graphene Oxide. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 10330-10338	9.5	38
72	Synthesis of pyrite thin films and transition metal doped pyrite thin films by aerosol-assisted chemical vapour deposition. <i>New Journal of Chemistry</i> , <b>2015</b> , 39, 1013-1021	3.6	36
71	Sequential bottom-up and top-down processing for the synthesis of transition metal dichalcogenide nanosheets: the case of rhenium disulfide (ReS <sub>2</sub> ). <i>Chemical Communications</i> , <b>2016</b> , 52, 7878-81	5.8	36
70	Lanthanide-coated gold nanoparticles for biomedical applications. <i>Coordination Chemistry Reviews</i> , <b>2014</b> , 273-274, 213-225	23.2	34
69	Intracellular synchrotron nanoimaging and DNA damage/genotoxicity screening of novel lanthanide-coated nanovectors. <i>Nanomedicine</i> , <b>2010</b> , 5, 1547-57	5.6	33
68	On the stability of surfactant-stabilised few-layer black phosphorus in aqueous media. <i>RSC Advances</i> , <b>2016</b> , 6, 86955-86958	3.7	30
67	Exploring the versatility of liquid phase exfoliation: producing 2D nanosheets from talcum powder, cat litter and beach sand. <i>2D Materials</i> , <b>2017</b> , 4, 025054	5.9	29
66	Evaluation of quinoline as a remote sensitizer for red and near-infrared emissive lanthanide(III) ions in solution and the solid state. <i>Dalton Transactions</i> , <b>2012</b> , 41, 13138-46	4.3	24
65	Formation and Healing of Defects in Atomically Thin GaSe and InSe. <i>ACS Nano</i> , <b>2019</b> , 13, 5112-5123	16.7	23
64	Updating the road map to metal-halide perovskites for photovoltaics. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 17135-17150	13	23
63	Black phosphorus with near-superhydrophobic properties and long-term stability in aqueous media. <i>Chemical Communications</i> , <b>2018</b> , 54, 3831-3834	5.8	22

62	Direct synthesis of MoS or MoOvia thermolysis of a dialkyl dithiocarbamate molybdenum(iv) complex. <i>Chemical Communications</i> , <b>2018</b> , 55, 99-102	5.8	21
61	Dual Functionalization of Liquid-Exfoliated Semiconducting 2H-MoS <sub>2</sub> with Lanthanide Complexes Bearing Magnetic and Luminescence Properties. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1703646	15.6	20
60	Single-Source Precursor for Tungsten Dichalcogenide Thin Films: Mo <sub>1-x</sub> W <sub>x</sub> S <sub>2</sub> (0 ≤ x ≤ 1) Alloys by Aerosol-Assisted Chemical Vapor Deposition. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 3858-3862	9.6	19
59	A Free-Standing and Self-Healable 2D Supramolecular Material Based on Hydrogen Bonding: A Nanowire Array with Sub-2-nm Resolution. <i>Small</i> , <b>2017</b> , 13, 1604077	11	19
58	Synthesis of Bi <sub>2-x</sub> Sb <sub>2x</sub> S <sub>3</sub> (0 ≤ x ≤ 1) solid solutions from solventless thermolysis of metal xanthate precursors. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 12652-12659	7.1	19
57	Morphology and band gap controlled AACVD of CdSe and Cd <sub>x</sub> Se <sub>1-x</sub> thin films using novel single source precursors: Bis(diethyldithio/diselenocarbamate)cadmium(II). <i>Materials Science in Semiconductor Processing</i> , <b>2015</b> , 40, 848-854	4.3	16
56	Scalable and Universal Route for the Deposition of Binary, Ternary, and Quaternary Metal Sulfide Materials from Molecular Precursors. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 1952-1961	6.1	16
55	Renewable Adsorbent for the Separation of Surfactant-Stabilized Oil in Water Emulsions Based on Nanostructured Sawdust. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 18935-18942	8.3	16
54	Chemical vapor deposition of tin sulfide from diorganotin(IV) dixanthates. <i>Journal of Materials Science</i> , <b>2019</b> , 54, 2315-2323	4.3	16
53	On the phase control of CuInS nanoparticles from Cu-/In-xanthates. <i>Dalton Transactions</i> , <b>2018</b> , 47, 5304-5309	4.3	14
52	Synthesis of nanostructured powders and thin films of iron sulfide from molecular precursors.. <i>RSC Advances</i> , <b>2018</b> , 8, 29096-29103	3.7	13
51	Room-Temperature Production of Nanocrystalline Molybdenum Disulfide (MoS) at the Liquid-Liquid Interface. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 5384-5391	9.6	13
50	The influence of precursor on rhenium incorporation into Re-doped MoS <sub>2</sub> (Mo <sub>1-x</sub> Re <sub>x</sub> S <sub>2</sub> ) thin films by aerosol-assisted chemical vapour deposition (AACVD). <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 9044-9052	7.1	13
49	High magnetic relaxivity in a fluorescent CdSe/CdS/ZnS quantum dot functionalized with MRI contrast molecules. <i>Chemical Communications</i> , <b>2017</b> , 53, 10500-10503	5.8	13
48	Diatom Frustules as a Biomineralized Scaffold for the Growth of Molybdenum Disulfide Nanosheets. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 5582-5586	9.6	13
47	A molecular precursor route to quaternary chalcogenide CFTS (CuFeSnS) powders as potential solar absorber materials.. <i>RSC Advances</i> , <b>2019</b> , 9, 24146-24153	3.7	12
46	Silica nanoparticles for micro-particle imaging velocimetry: fluorosurfactant improves nanoparticle stability and brightness of immobilized iridium(III) complexes. <i>Langmuir</i> , <b>2013</b> , 29, 14701-8	4	12
45	Air-Stable Methylammonium Lead Iodide Perovskite Thin Films Fabricated via Aerosol-Assisted Chemical Vapor Deposition from a Pseudohalide Pb(SCN) <sub>2</sub> Precursor. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 6012-6022	6.1	11

44	Bioinspired scaffolds that sequester lead ions in physically damaged high efficiency perovskite solar cells. <i>Chemical Communications</i> , <b>2021</b> , 57, 994-997	5.8	11
43	Property Self-Optimization During Wear of MoS. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 1953-1958	9.5	10
42	Tailoring iridium luminescence and gold nanoparticle size for imaging of microvascular blood flow. <i>Nanomedicine</i> , <b>2017</b> , 12, 2725-2740	5.6	10
41	Exploiting Inherent Instability of 2D Black Phosphorus for Controlled Phosphate Release from Blow-Spun Poly(lactide-co-glycolide) Nanofibers. <i>ACS Applied Nano Materials</i> , <b>2018</b> , 1, 4190-4197	5.6	10
40	New insights into polymer mediated formation of anatase mesocrystals. <i>CrystEngComm</i> , <b>2017</b> , 19, 3281-3287	3.87	9
39	Luminescent gold surfaces for sensing and imaging: patterning of transition metal probes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 11598-608	9.5	9
38	A Review of the Synthesis, Properties, and Applications of Bulk and Two-Dimensional Tin (II) Sulfide (SnS). <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 2062	2.6	8
37	Synthetic 2-D lead tin sulfide nanosheets with tuneable optoelectronic properties from a potentially scalable reaction pathway. <i>Chemical Science</i> , <b>2019</b> , 10, 1035-1045	9.4	7
36	Controlled assembly of heterometallic lanthanide(III) macrocycles: incorporation of photoactive and highly paramagnetic metal centres within a single complex. <i>Supramolecular Chemistry</i> , <b>2012</b> , 24, 135-142	1.8	7
35	Rapid and Low-Temperature Molecular Precursor Approach toward Ternary Layered Metal Chalcogenides and Oxides: Mo W S and Mo W O Alloys (0 III). <i>Chemistry of Materials</i> , <b>2020</b> , 32, 7895-7907	9.6	7
34	Important Phase Control of Indium Sulfide Nanomaterials by Choice of Indium(III) Xanthate Precursor and Thermolysis Temperature. <i>European Journal of Inorganic Chemistry</i> , <b>2019</b> , 2019, 1421-1432	2.3	7
33	Flexible nanoporous activated carbon for adsorption of organics from industrial effluents. <i>Nanoscale</i> , <b>2021</b> , 13, 15311-15323	7.7	7
32	Solid solutions of M <sub>2</sub> XIn <sub>2</sub> S <sub>3</sub> (M = Bi or Sb) by solventless thermolysis. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 5112-5121	7.1	6
31	Surface Engineering of Ceramic Nanomaterials for Separation of Oil/Water Mixtures. <i>Frontiers in Chemistry</i> , <b>2020</b> , 8, 578	5	6
30	Chemical vapour deposition of chromium-doped tungsten disulphide thin films on glass and steel substrates from molecular precursors. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 9537-9544	7.1	6
29	Accessing EGaS by solventless thermolysis of gallium xanthates: a low-temperature limit for crystalline products. <i>Dalton Transactions</i> , <b>2019</b> , 48, 15605-15612	4.3	6
28	Scalable synthesis of Cu-Sb-S phases from reactive melts of metal xanthates and effect of cationic manipulation on structural and optical properties. <i>Scientific Reports</i> , <b>2021</b> , 11, 1887	4.9	5
27	Full compositional control of PbSSe thin films by the use of acylchalcogourato lead(ii) complexes as precursors for AACVD. <i>Dalton Transactions</i> , <b>2018</b> , 47, 16938-16943	4.3	5

26	Decoupling Structure and Composition of CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3-x</sub> Br <sub>x</sub> Films Prepared by Combined One-Step and Two-Step Deposition. <i>ACS Applied Energy Materials</i> , <b>2018</b> , 1, 5567-5578	6.1	5
25	Synthesis of iron sulfide thin films and powders from new xanthate precursors. <i>Journal of Crystal Growth</i> , <b>2019</b> , 522, 175-182	1.6	4
24	Luminescent ruthenium(II) tris-bipyridyl complex caged in nanoscale silica for particle velocimetry studies in microchannels. <i>Measurement Science and Technology</i> , <b>2012</b> , 23, 084004	2	4
23	Intrinsic effects of thickness, surface chemistry and electroactive area on nanostructured MoS <sub>2</sub> electrodes with superior stability for hydrogen evolution. <i>Electrochimica Acta</i> , <b>2021</b> , 382, 138257	6.7	4
22	A novel and potentially scalable CVD-based route towards SnO <sub>2</sub> :Mo thin films as transparent conducting oxides. <i>Journal of Materials Science</i> , <b>2021</b> , 56, 15921-15936	4.3	4
21	Nanoscale Chevrel-Phase Mo <sub>6</sub> S <sub>8</sub> Prepared by a Molecular Precursor Approach for Highly Efficient Electrocatalysis of the Hydrogen Evolution Reaction in Acidic Media. <i>ACS Applied Energy Materials</i> ,	6.1	3
20	Heterometallic 3d-4f Complexes as Air-Stable Molecular Precursors in Low Temperature Syntheses of Stoichiometric Rare-Earth Orthoferrite Powders. <i>Inorganic Chemistry</i> , <b>2020</b> , 59, 15796-15806	5.1	3
19	Molecular Precursor Route to Bournonite (CuPbSbS) Thin Films and Powders. <i>Inorganic Chemistry</i> , <b>2021</b> , 60, 13691-13698	5.1	3
18	Synthesis of indium oxide microparticles using aerosol assisted chemical vapour deposition.. <i>RSC Advances</i> , <b>2020</b> , 10, 22487-22490	3.7	2
17	Thin films of formamidinium lead iodide (FAPL) deposited using aerosol assisted chemical vapour deposition (AACVD). <i>Scientific Reports</i> , <b>2020</b> , 10, 22245	4.9	2
16	A review of two-dimensional nanomaterials beyond graphene. <i>SPR Nanoscience</i> , 108-141	3	2
15	Synthesis, X-ray Single-Crystal Structural Characterization, and Thermal Analysis of Bis(O-alkylxanthato)Cd(II) and Bis(O-alkylxanthato)Zn(II) Complexes Used as Precursors for Cadmium and Zinc Sulfide Thin Films. <i>Inorganic Chemistry</i> , <b>2021</b> , 60, 7573-7583	5.1	2
14	Direct synthesis of nanostructured silver antimony sulfide powders from metal xanthate precursors. <i>Scientific Reports</i> , <b>2021</b> , 11, 3053	4.9	2
13	High-Performance Nanostructured MoS <sub>2</sub> Electrodes with Spontaneous Ultralow Gold Loading for Hydrogen Evolution. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 20940-20951	3.8	2
12	Optimization of superhydrophobicity at the surface of iron sulfide thin films by a wet chemical approach. <i>Materials Research Bulletin</i> , <b>2021</b> , 144, 111476	5.1	2
11	Synthesis of ternary copper antimony sulfide via solventless thermolysis or aerosol assisted chemical vapour deposition using metal dithiocarbamates.. <i>Scientific Reports</i> , <b>2022</b> , 12, 5627	4.9	2
10	Paul O'Brien. 22 January 1954–16 October 2018. <i>Biographical Memoirs of Fellows of the Royal Society</i> , <b>2020</b> , 69, 443-466	0.1	1
9	Synthesis of molybdenum-doped rhenium disulfide alloy using aerosol-assisted chemical vapour deposition. <i>Materials Science in Semiconductor Processing</i> , <b>2021</b> , 127, 105718	4.3	1

8	Ricinoleic Acid as a Green Alternative to Oleic Acid in the Synthesis of Doped Nanocrystals. <i>ChemistrySelect</i> , <b>2018</b> , 3, 13548-13552	1.8	1
7	Testing the Efficacy of the Synthesis of Iron Antimony Sulfide Powders from Single Source Precursors. <i>Inorganics</i> , <b>2021</b> , 9, 61	2.9	1
6	Tunable structural and optical properties of CuInS colloidal quantum dots as photovoltaic absorbers.. <i>RSC Advances</i> , <b>2021</b> , 11, 21351-21358	3.7	1
5	Sustainable ITO films with reduced indium content deposited by AACVD. <i>Journal of Materials Chemistry C</i> , <b>2022</b> , 10, 579-589	7.1	0
4	Preparation of solution processed photodetectors comprised of two-dimensional tin(ii) sulfide nanosheet thin films assembled the Langmuir-Blodgett method.. <i>RSC Advances</i> , <b>2021</b> , 11, 26813-26819	3.7	0
3	Tunable structural, morphological and optical properties of undoped, Mn, Ni and Ag-doped CuInS <sub>2</sub> thin films prepared by AACVD. <i>Materials Science in Semiconductor Processing</i> , <b>2022</b> , 137, 106224	4.3	0
2	Formation and Characterization of Model Iron Sulfide Scales with Disulfides and Thiols on Steel Pipeline Materials by an Aerosol-Assisted Chemical Vapor Method. <i>Energy &amp; Fuels</i> , <b>2017</b> , 31, 2496-2500	4.1	0
1	Structural Investigations of MnS Nanocrystals and Thin Films Synthesized from Manganese(II) Xanthates by Hot Injection, Solvent-Less Thermolysis, and Doctor Blade Routes. <i>ACS Omega</i> , <b>2021</b> , 6, 27716-27725	3.9	0