

David J Lewis

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/454616/david-j-lewis-publications-by-year.pdf>

Version: 2024-04-23

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Sustainable ITO films with reduced indium content deposited by AACVD. <i>Journal of Materials Chemistry C</i> , 2022 , 10, 579-589	7.1	0
96	Tunable structural, morphological and optical properties of undoped, Mn, Ni and Ag-doped CuInS ₂ thin films prepared by AACVD. <i>Materials Science in Semiconductor Processing</i> , 2022 , 137, 106224	4.3	0
95	Synthesis of ternary copper antimony sulfide via solventless thermolysis or aerosol assisted chemical vapour deposition using metal dithiocarbamates.. <i>Scientific Reports</i> , 2022 , 12, 5627	4.9	2
94	Structural Investigations of β MnS Nanocrystals and Thin Films Synthesized from Manganese(II) Xanthates by Hot Injection, Solvent-Less Thermolysis, and Doctor Blade Routes. <i>ACS Omega</i> , 2021 , 6, 27716-27725	3.9	
93	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> , 2021 , 60, 7573-7583	5.1	2
92	Synthesis of molybdenum-doped rhenium disulfide alloy using aerosol-assisted chemical vapour deposition. <i>Materials Science in Semiconductor Processing</i> , 2021 , 127, 105718	4.3	1
91	Intrinsic effects of thickness, surface chemistry and electroactive area on nanostructured MoS ₂ electrodes with superior stability for hydrogen evolution. <i>Electrochimica Acta</i> , 2021 , 382, 138257	6.7	4
90	A novel and potentially scalable CVD-based route towards SnO ₂ :Mo thin films as transparent conducting oxides. <i>Journal of Materials Science</i> , 2021 , 56, 15921-15936	4.3	4
89	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> , 2021 , 11, 1887	4.9	5
88	Bioinspired scaffolds that sequester lead ions in physically damaged high efficiency perovskite solar cells. <i>Chemical Communications</i> , 2021 , 57, 994-997	5.8	11
87	Preparation of solution processed photodetectors comprised of two-dimensional tin(ii) sulfide nanosheet thin films assembled the Langmuir-Blodgett method.. <i>RSC Advances</i> , 2021 , 11, 26813-26819	3.7	0
86	A Review of the Synthesis, Properties, and Applications of Bulk and Two-Dimensional Tin (II) Sulfide (SnS). <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 2062	2.6	8
85	Direct synthesis of nanostructured silver antimony sulfide powders from metal xanthate precursors. <i>Scientific Reports</i> , 2021 , 11, 3053	4.9	2
84	Testing the Efficacy of the Synthesis of Iron Antimony Sulfide Powders from Single Source Precursors. <i>Inorganics</i> , 2021 , 9, 61	2.9	1
83	Molecular Precursor Route to Bournonite (CuPbSbS) Thin Films and Powders. <i>Inorganic Chemistry</i> , 2021 , 60, 13691-13698	5.1	3
82	High-Performance Nanostructured MoS ₂ Electrodes with Spontaneous Ultralow Gold Loading for Hydrogen Evolution. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 20940-20951	3.8	2
81	Optimization of superhydrophobicity at the surface of iron sulfide thin films by a wet chemical approach. <i>Materials Research Bulletin</i> , 2021 , 144, 111476	5.1	2

80	Tunable structural and optical properties of CuInS colloidal quantum dots as photovoltaic absorbers.. <i>RSC Advances</i> , 2021 , 11, 21351-21358	3.7	1
79	Flexible nanoporous activated carbon for adsorption of organics from industrial effluents. <i>Nanoscale</i> , 2021 , 13, 15311-15323	7.7	7
78	Synthesis of indium oxide microparticles using aerosol assisted chemical vapour deposition.. <i>RSC Advances</i> , 2020 , 10, 22487-22490	3.7	2
77	Surface Engineering of Ceramic Nanomaterials for Separation of Oil/Water Mixtures. <i>Frontiers in Chemistry</i> , 2020 , 8, 578	5	6
76	Scalable and Universal Route for the Deposition of Binary, Ternary, and Quaternary Metal Sulfide Materials from Molecular Precursors. <i>ACS Applied Energy Materials</i> , 2020 , 3, 1952-1961	6.1	16
75	Thin films of formamidinium lead iodide (FAPL) deposited using aerosol assisted chemical vapour deposition (AACVD). <i>Scientific Reports</i> , 2020 , 10, 22245	4.9	2
74	Heterometallic 3d-4f Complexes as Air-Stable Molecular Precursors in Low Temperature Syntheses of Stoichiometric Rare-Earth Orthoferrite Powders. <i>Inorganic Chemistry</i> , 2020 , 59, 15796-15806	5.1	3
73	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> , 2020 , 32, 7895-7907	9.6	7
72	Paul O'Brien. 22 January 1954–16 October 2018. <i>Biographical Memoirs of Fellows of the Royal Society</i> , 2020 , 69, 443-466	0.1	1
71	Synthetic 2-D lead tin sulfide nanosheets with tuneable optoelectronic properties from a potentially scalable reaction pathway. <i>Chemical Science</i> , 2019 , 10, 1035-1045	9.4	7
70	Synthesis of iron sulfide thin films and powders from new xanthate precursors. <i>Journal of Crystal Growth</i> , 2019 , 522, 175-182	1.6	4
69	Solid solutions of M ₂ XIn ₂ X ₃ (M = Bi or Sb) by solventless thermolysis. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 5112-5121	7.1	6
68	Formation and Healing of Defects in Atomically Thin GaSe and InSe. <i>ACS Nano</i> , 2019 , 13, 5112-5123	16.7	23
67	Accessing E _g GaS by solventless thermolysis of gallium xanthates: a low-temperature limit for crystalline products. <i>Dalton Transactions</i> , 2019 , 48, 15605-15612	4.3	6
66	A molecular precursor route to quaternary chalcogenide CFTS (CuFeSnS) powders as potential solar absorber materials.. <i>RSC Advances</i> , 2019 , 9, 24146-24153	3.7	12
65	Room-Temperature Production of Nanocrystalline Molybdenum Disulfide (MoS) at the Liquid-Liquid Interface. <i>Chemistry of Materials</i> , 2019 , 31, 5384-5391	9.6	13
64	Air-Stable Methylammonium Lead Iodide Perovskite Thin Films Fabricated via Aerosol-Assisted Chemical Vapor Deposition from a Pseudohalide Pb(SCN) ₂ Precursor. <i>ACS Applied Energy Materials</i> , 2019 , 2, 6012-6022	6.1	11
63	Renewable Adsorbent for the Separation of Surfactant-Stabilized Oil in Water Emulsions Based on Nanostructured Sawdust. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 18935-18942	8.3	16

62	Important Phase Control of Indium Sulfide Nanomaterials by Choice of Indium(III) Xanthate Precursor and Thermolysis Temperature. <i>European Journal of Inorganic Chemistry</i> , 2019 , 2019, 1421-1432 ^{2,3}	7
61	Chemical vapor deposition of tin sulfide from diorganotin(IV) dioxanthates. <i>Journal of Materials Science</i> , 2019 , 54, 2315-2323	4.3 16
60	Supercapacitor Electrodes from the in Situ Reaction between Two-Dimensional Sheets of Black Phosphorus and Graphene Oxide. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 10330-10338	9.5 38
59	Fully printed high performance humidity sensors based on two-dimensional materials. <i>Nanoscale</i> , 2018 , 10, 5599-5606	7.7 101
58	Black phosphorus with near-superhydrophobic properties and long-term stability in aqueous media. <i>Chemical Communications</i> , 2018 , 54, 3831-3834	5.8 22
57	On the phase control of CuInS nanoparticles from Cu-/In-xanthates. <i>Dalton Transactions</i> , 2018 , 47, 5304-5309	14
56	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> , 2018 , 1, 4190-4197	5.6 10
55	Ambient-air-stable inorganic Cs ₂ SnI ₆ double perovskite thin films via aerosol-assisted chemical vapour deposition. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 11205-11214	13 56
54	Synthesis of nanostructured powders and thin films of iron sulfide from molecular precursors.. <i>RSC Advances</i> , 2018 , 8, 29096-29103	3.7 13
53	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> , 2018 , 6, 9537-9544	7.1 6
52	Direct synthesis of MoS or MoO ₃ via thermolysis of a dialkyl dithiocarbamate molybdenum(IV) complex. <i>Chemical Communications</i> , 2018 , 55, 99-102	5.8 21
51	Full compositional control of PbS _{1-x} Se _x thin films by the use of acylchalcogenato lead(II) complexes as precursors for AACVD. <i>Dalton Transactions</i> , 2018 , 47, 16938-16943	4.3 5
50	Synthesis of Bi _{2-x} Sb _{2x} S ₃ (0 ≤ x ≤ 1) solid solutions from solventless thermolysis of metal xanthate precursors. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 12652-12659	7.1 19
49	Ricinoleic Acid as a Green Alternative to Oleic Acid in the Synthesis of Doped Nanocrystals. <i>ChemistrySelect</i> , 2018 , 3, 13548-13552	1.8 1
48	Decoupling Structure and Composition of CH ₃ NH ₃ PbI _{3-x} Br _x Films Prepared by Combined One-Step and Two-Step Deposition. <i>ACS Applied Energy Materials</i> , 2018 , 1, 5567-5578	6.1 5
47	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 & Fuels</i> , 2017 , 31, 2496-2500	4.1
46	Single-Source Precursor for Tungsten Dichalcogenide Thin Films: Mo _{1-x} W _x S ₂ (0 ≤ x ≤ 1) Alloys by Aerosol-Assisted Chemical Vapor Deposition. <i>Chemistry of Materials</i> , 2017 , 29, 3858-3862	9.6 19
45	In situ investigation of degradation at organometal halide perovskite surfaces by X-ray photoelectron spectroscopy at realistic water vapour pressure. <i>Chemical Communications</i> , 2017 , 53, 5234-5235 ⁵⁷	5.8

44	New insights into polymer mediated formation of anatase mesocrystals. <i>CrystEngComm</i> , 2017 , 19, 3281-3287	3.387	9
43	Exploring the versatility of liquid phase exfoliation: producing 2D nanosheets from talcum powder, cat litter and beach sand. <i>2D Materials</i> , 2017 , 4, 025054	5.9	29
42	A Free-Standing and Self-Healable 2D Supramolecular Material Based on Hydrogen Bonding: A Nanowire Array with Sub-2-nm Resolution. <i>Small</i> , 2017 , 13, 1604077	11	19
41	Shining a light on transition metal chalcogenides for sustainable photovoltaics. <i>Chemical Science</i> , 2017 , 8, 4177-4187	9.4	66
40	Property Self-Optimization During Wear of MoS. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 1953-1958	10.58	10
39	Solution processing of two-dimensional black phosphorus. <i>Chemical Communications</i> , 2017 , 53, 1445-1458	5.88	55
38	Tailoring iridium luminescence and gold nanoparticle size for imaging of microvascular blood flow. <i>Nanomedicine</i> , 2017 , 12, 2725-2740	5.6	10
37	The influence of precursor on rhenium incorporation into Re-doped MoS ₂ (Mo _{1-x} Re _x S ₂) thin films by aerosol-assisted chemical vapour deposition (AACVD). <i>Journal of Materials Chemistry C</i> , 2017 , 5, 9044-9052	7.1	13
36	High magnetic relaxivity in a fluorescent CdSe/CdS/ZnS quantum dot functionalized with MRI contrast molecules. <i>Chemical Communications</i> , 2017 , 53, 10500-10503	5.8	13
35	Dual Functionalization of Liquid-Exfoliated Semiconducting 2H-MoS ₂ with Lanthanide Complexes Bearing Magnetic and Luminescence Properties. <i>Advanced Functional Materials</i> , 2017 , 27, 1703646	15.6	20
34	Updating the road map to metal-halide perovskites for photovoltaics. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 17135-17150	13	23
33	Chemical vapour deposition of rhenium disulfide and rhenium-doped molybdenum disulfide thin films using single-source precursors. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 2312-2318	7.1	42
32	Synthesis, Properties, and Applications of Transition Metal-Doped Layered Transition Metal Dichalcogenides. <i>Chemistry of Materials</i> , 2016 , 28, 1965-1974	9.6	304
31	Heterocyclic dithiocarbamate-iron(III) complexes: single-source precursors for aerosol-assisted chemical vapour deposition (AACVD) of iron sulfide thin films. <i>Dalton Transactions</i> , 2016 , 45, 2647-55	4.3	43
30	Sequential bottom-up and top-down processing for the synthesis of transition metal dichalcogenide nanosheets: the case of rhenium disulfide (ReS ₂). <i>Chemical Communications</i> , 2016 , 52, 7878-81	5.8	36
29	On the stability of surfactant-stabilised few-layer black phosphorus in aqueous media. <i>RSC Advances</i> , 2016 , 6, 86955-86958	3.7	30
28	Diatom Frustules as a Biomineralized Scaffold for the Growth of Molybdenum Disulfide Nanosheets. <i>Chemistry of Materials</i> , 2016 , 28, 5582-5586	9.6	13
27	Nanostructured Aptamer-Functionalized Black Phosphorus Sensing Platform for Label-Free Detection of Myoglobin, a Cardiovascular Disease Biomarker. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 22860-8	9.5	164

26	Transition metal doped pyrite (FeS ₂) thin films: structural properties and evaluation of optical band gap energies. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 12068-12076	7.1	46
25	Morphology and band gap controlled AACVD of CdSe and Cd _x Se _{1-x} thin films using novel single source precursors: Bis(diethyldithio/diselenocarbamate)cadmium(II). <i>Materials Science in Semiconductor Processing</i> , 2015 , 40, 848-854	4.3	16
24	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> , 2015 , 137, 12689-96	16.4	187
23	Mechanical Properties of Molybdenum Disulfide and the Effect of Doping: An in Situ TEM Study. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 20829-34	9.5	41
22	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> , 2015 , 415, 93-99	1.6	65
21	Thin Films of Molybdenum Disulfide Doped with Chromium by Aerosol-Assisted Chemical Vapor Deposition (AACVD). <i>Chemistry of Materials</i> , 2015 , 27, 1367-1374	9.6	62
20	Synthesis of pyrite thin films and transition metal doped pyrite thin films by aerosol-assisted chemical vapour deposition. <i>New Journal of Chemistry</i> , 2015 , 39, 1013-1021	3.6	36
19	Ambient pressure aerosol-assisted chemical vapour deposition of (CH ₃ NH ₂) ₂ PbBr ₃ inorganic-organic perovskite important in photovoltaics. <i>Chemical Communications</i> , 2014 , 50, 6319-21	5.8	67
18	Lanthanide-coated gold nanoparticles for biomedical applications. <i>Coordination Chemistry Reviews</i> , 2014 , 273-274, 213-225	23.2	34
17	De novo design of Ln(III) coiled coils for imaging applications. <i>Journal of the American Chemical Society</i> , 2014 , 136, 1166-9	16.4	44
16	Production of few-layer phosphorene by liquid exfoliation of black phosphorus. <i>Chemical Communications</i> , 2014 , 50, 13338-41	5.8	556
15	On the interaction of copper(II) with disulfiram. <i>Chemical Communications</i> , 2014 , 50, 13334-7	5.8	69
14	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> , 2014 , 1, 577-598	6.8	72
13	Luminescent gold surfaces for sensing and imaging: patterning of transition metal probes. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 11598-608	9.5	9
12	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> , 2014 , 38, 6073-6080	3.6	46
11	Silica nanoparticles for micro-particle imaging velocimetry: fluorosurfactant improves nanoparticle stability and brightness of immobilized iridium(III) complexes. <i>Langmuir</i> , 2013 , 29, 14701-8	4	12
10	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> , 2012 , 41, 13138-46	4.3	24
9	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> , 2012 , 109, 1862-7	11.5	73

8	Controlled assembly of heterometallic lanthanide(III) macrocycles: incorporation of photoactive and highly paramagnetic metal centres within a single complex. <i>Supramolecular Chemistry</i> , 2012 , 24, 135-142	1.8	7
7	Luminescent ruthenium(II) tris-bipyridyl complex caged in nanoscale silica for particle velocimetry studies in microchannels. <i>Measurement Science and Technology</i> , 2012 , 23, 084004	2	4
6	Purely heterometallic lanthanide(III) macrocycles through controlled assembly of disulfide bonds for dual color emission. <i>Journal of the American Chemical Society</i> , 2011 , 133, 1033-43	16.4	96
5	Intracellular synchrotron nanoimaging and DNA damage/genotoxicity screening of novel lanthanide-coated nanovectors. <i>Nanomedicine</i> , 2010 , 5, 1547-57	5.6	33
4	Luminescent nanobeads: attachment of surface reactive Eu(III) complexes to gold nanoparticles. <i>Chemical Communications</i> , 2006 , 1433-5	5.8	122
3	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> , 2004 , 126, 9413-24	16.4	323
2	Nanoscale Chevrel-Phase Mo ₆ S ₈ 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
1	A review of two-dimensional nanomaterials beyond graphene. <i>SPR Nanoscience</i> , 108-141	3	2