

David J Otway

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Group 2 element β -diketonate complexes: synthetic and structural investigations. <i>Coordination Chemistry Reviews</i> , 2000, 210, 279-328.	9.5	109
2	Novel precursors for the growth of β -In ₂ S ₃ : trisdialkyldithiocarbamates of indium. <i>Thin Solid Films</i> , 1998, 315, 57-61.	0.8	106
3	Single source molecular precursors for the deposition of III/VI chalcogenide semiconductors by MOCVD and related techniques. <i>Dalton Transactions RSC</i> , 2000, , 4479-4486.	2.3	91
4	MOCVD of Zirconia Thin Films by Direct Liquid Injection Using a New Class of Zirconium Precursor. <i>Chemical Vapor Deposition</i> , 1998, 04, 46-49.	1.4	68
5	Title is missing!. <i>Journal of Materials Science: Materials in Electronics</i> , 2002, 13, 531-535.	1.1	68
6	Group IIA metal β -diketonate complexes; the crystal structures of [Sr ₃ (tmhd) ₆ (Htmhd)] \cdot C ₆ H ₅ Me \cdot C ₅ H ₁₁ and [Ba ₄ (tmhd) ₈](Htmhd = 2,2,6,6-tetramethylheptane-3,5-dione). <i>Journal of the Chemical Society Dalton Transactions</i> , 1993, , 2883-2890.	1.1	51
7	Oxygen or nitrogen chelates stabilizing barium and yttrium β -diketonates. <i>Inorganic Chemistry</i> , 1993, 32, 4464-4471.	1.9	48
8	Synthesis and Characterization of the First Group 2 Mixed β -Diketonate Alkoxide Complexes. X-ray Crystal Structures of [Ca ₄ (tmhd) ₄ (OEt) ₄ (EtOH) ₄], [Ca ₄ (tmhd) ₆ (OCH ₂ CH ₂ NMe ₂) ₂], and [H ₂ Ba ₄ (tmhd) ₆ (OCH ₂ CH ₂ OPri) ₄]. <i>Inorganic Chemistry</i> , 1995, 34, 5295-5306.	1.9	48
9	The synthesis of metal organic compounds of calcium, strontium and barium by ammonia gas-saturated ethereal solvents. <i>Journal of the Chemical Society Chemical Communications</i> , 1991, , 517.	2.0	45
10	Deposition of Thin Films of Gallium Sulfide from a Novel Single-Source Precursor, Ga(S ₂ CNMeHex) ₃ , by Low-Pressure Metal-Organic Chemical Vapor Deposition. <i>Chemistry of Materials</i> , 1999, 11, 3430-3432.	3.2	45
11	Novel approach to the deposition of CdS by chemical bath deposition: the deposition of crystalline thin films of CdS from acidic baths. <i>Journal of Materials Chemistry</i> , 1999, 9, 725-729.	6.7	42
12	The importance of ternary complexes in defining basic conditions for the deposition of ZnS by aqueous chemical bath deposition. <i>Thin Solid Films</i> , 2000, 361-362, 17-21.	0.8	42
13	The deposition of thin films of CuME ₂ by CVD techniques (M = In, Ga and E = S, Se). <i>Journal of Materials Chemistry</i> , 2003, 13, 1942.	6.7	42
14	The Growth of Indium Selenide Thin Films from a Novel Asymmetric Dialkyldiselenocarbamate of Indium. <i>Chemical Vapor Deposition</i> , 1997, 3, 227-229.	1.4	41
15	The synthesis and characterization of the group IIA homoleptic aryloxides under mild conditions, [M(OAr ϵ^2) ₂] ₂ , and the adducts [M(OAr ϵ^2) ₂ (L) _x] \cdot L (M = Ca, Sr, Ba; Ar ϵ^2 = 2,4,6-tri- <i>t</i> -butyl-phenol; L THF, x = 3; M) <i>Tj ETQq1 1 0.78</i> <i>Polyhedron</i> , 1992, 11, 1995-2007.	1.0	37
16	Developing environmentally benign routes for semiconductor synthesis: improved approaches to the solution deposition of cadmium sulfide for solar cell applications. <i>Green Chemistry</i> , 2000, 2, 79-86.	4.6	35
17	Size-tuneable synthesis of nickel nanoparticles. <i>Journal of Nanoparticle Research</i> , 2012, 14, 1.	0.8	35
18	Lanthanide β -diketonate glyme complexes exhibiting unusual co-ordination modes. <i>Journal of the Chemical Society Dalton Transactions</i> , 1993, , 2379-2386.	1.1	30

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19	Group 2/titanium heterometallic alkoxides; their reproducible syntheses and characterization. Crystal structures of the compounds [SrTi ₄ (OEt) ₁₈] and [Sr ₂ Ti(OPri) ₈ (PriOH) ₃] · 2PriOH. Polyhedron, 1998, 17, 625-639.	1.0	24
20	Facile synthesis of alkaline-earth-metal β^2 -diketonates and the structure of the loose dimer the Chemical Society Dalton Transactions, 1997, , 1331-1336.	1.1	23
21	A novel method for the synthesis of the ternary thin film semiconductor cadmium zinc sulfide from acidic chemical baths. Journal of Materials Chemistry, 2000, 10, 2439-2441.	6.7	23
22	A low temperature synthesis of barium organometallics via mixed ammonia-etheral solvents. Polyhedron, 1992, 11, 745-758.	1.0	22
23	A Novel Simple Process for the Deposition of Thin Films of CuInSe ₂ by MOCVD. Chemical Vapor Deposition, 1998, 04, 94-96.	1.4	18
24	Liquid Injection MOCVD of Zirconium Dioxide Using a Novel Mixed Ligand Zirconium Precursor. Chemical Vapor Deposition, 1998, 4, 197-201.	1.4	15
25	Microwave-assisted synthesis of icosahedral nickel nanocrystals. CrystEngComm, 2011, 13, 2023.	1.3	15
26	Iron Sulfide (FeS ₂) Thin Films From Single-Source Precursors by Aerosol-Assisted Chemical Vapor Deposition (AACVD). Materials Research Society Symposia Proceedings, 1999, 606, 133.	0.1	13
27	Magnetic properties of Ni nanoparticles on microporous silica spheres. Journal of Magnetism and Magnetic Materials, 2010, 322, 1269-1274.	1.0	13
28	Unusual magnetism in templated NiS nanoparticles. Journal of Physics Condensed Matter, 2010, 22, 076001.	0.7	13
29	Modeling of Precursors for Atomic Layer Deposition of Magnesium and Calcium Oxide. Chemical Vapor Deposition, 2013, 19, 117-124.	1.4	12
30	Synthesis and characterization of nanoparticulate MnS within the pores of mesoporous silica. Journal of Solid State Chemistry, 2007, 180, 3443-3449.	1.4	9
31	Metalorganic Chemical Vapour Deposition of CuInSe ₂ From Copper and Indium Diselenocarbamates for Solar Cell Devices. Materials Research Society Symposia Proceedings, 1997, 485, 157.	0.1	8
32	MOCVD of CuInE ₂ (Where E = S or Se) and Related Materials for Solar Cell Devices. Materials Research Society Symposia Proceedings, 1999, 606, 147.	0.1	5
33	Novel Approaches to the Deposition of Selenium Containing Materials. Phosphorus, Sulfur and Silicon and the Related Elements, 1998, 136, 431-446.	0.8	3
34	Group III Metal Sulfide Thin Films From Single-Source Precursors by Chemical Vapor Deposition (CVD) Techniques. Materials Research Society Symposia Proceedings, 1999, 606, 127.	0.1	3
35	Barium bis(β^2 -Diketonate)tetraglyme Complexes as Potential CVD Precursors for Electronic Materials. Materials Research Society Symposia Proceedings, 1995, 415, 99.	0.1	2
36	Spectroscopic and Structural Studies of Some Precursors for the Deposition of PZT and Related Materials by MOCVD. Materials Research Society Symposia Proceedings, 1997, 495, 57.	0.1	2

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37	Precursors for Vapor Deposition of Blue Phosphors for Electroluminescent Flat Panel Displays. Materials Research Society Symposia Proceedings, 1997, 495, 83.	0.1	2
38	MnS doped mesoporous silica catalysts for the generation of novel carbon nanocages. Applied Catalysis A: General, 2008, 341, 8-11.	2.2	2
39	An Investigation into the Role of Incorporated Solvent (EtOH/H ₂ O) Molecules on the Structure of Group 2 Metal bis(η^2 - Diketonate) Complexes: Ramifications for CVD Precursors of Electronic Materials.. Materials Research Society Symposia Proceedings, 1995, 415, 105.	0.1	1
40	Novel Precursors for MOCVD of Thin Films of Metal Oxides Containing Early Transition Metals. Materials Research Society Symposia Proceedings, 1998, 541, 333.	0.1	0
41	New Approaches to Chemical Bath Deposition of Chalcogenides. Materials Research Society Symposia Proceedings, 1999, 606, 199.	0.1	0