

Andrew Jp Scott

List of Publications by Year in descending order

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docs citations

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#	ARTICLE	IF	CITATIONS
1	Synthesis and Characterization of Platinum(II) and Rhodium(I) Bis(boryl) Catalyst Precursors for Diboration of Alkynes and Dienes: Molecular Structures of $cis\text{-}[(PPh_3)_2Pt(B\text{-}4\text{-}Butcat)_2]$, $cis\text{-}[(PPh_3)_2Pt(Bcat)_2]$, $cis\text{-}[(dppe)Pt(Bcat)_2]$, $cis\text{-}[(dppb)Pt(Bcat)_2]$, $(E)\text{-}(4\text{-}MeOC_6H_4)C(Bcat)CH(Bcat)$, $(Z)\text{-}(C_6H_5)C(Bcat)C(C_6H_5)(Bcat)$, and $(Z,Z)\text{-}(4\text{-}MeOC_6H_4)C(Bcat)C(Bcat)C(Bcat)C(4\text{-}MeOC_6H_4)(Bcat)$ (cat = 1,2-O ₂ C ₆ H ₄ ; dppe = 1,1'-Bi-2-naphthol; dppb = 1,2-bis(diphenylphosphino)benzene). <i>Journal of Organometallic Chemistry</i> , 1998, 550, 183-192.	2.3	251
2	Probing the Bonding and Electronic Structure of Single Atom Dopants in Graphene with Electron Energy Loss Spectroscopy. <i>Nano Letters</i> , 2013, 13, 4989-4995.	9.1	187
3	Electron energy-loss near-edge structure - a tool for the investigation of electronic structure on the nanometre scale. <i>Journal of Microscopy</i> , 2001, 203, 135-175.	1.8	175
4	Control of single crystal structure and liquid crystal phase behaviour via arene-perfluoroarene interactions. <i>Chemical Communications</i> , 1999, , 2493-2494.	4.1	151
5	Structure and Phase Behavior of a 2:1 Complex between Arene- and Fluoroarene-Based Conjugated Rigid Rods. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 3061-3063.	13.8	125
6	Rhodium catalysed diboration of unstrained internal alkenes and a new and general route to zwitterionic $[L_2Rh(I\text{-}6\text{-}catBcat)]$ (cat = 1,2-O ₂ C ₆ H ₄) complexes. <i>Chemical Communications</i> , 1998, , 1983-1984.	4.1	108
7	Interface between quantum-mechanical-based approaches, experiments, and CALPHAD methodology. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2007, 31, 4-27.	1.6	108
8	Arene-perfluoroarene interactions in crystal engineering: structural preferences in polyfluorinated tolans. <i>Journal of Materials Chemistry</i> , 2004, 14, 413-420.	6.7	101
9	Oxidative addition of boron-chlorine and boron-bromine bonds to platinum(0). Dedicated to Professor Ken Wade on the occasion of his 65th birthday and in recognition of his outstanding contributions to the understanding of the chemistry of boron. <i>Journal of Organometallic Chemistry</i> , 1998, 550, 183-192.	1.8	95
10	Mobile metal adatoms on single layer, bilayer, and trilayer graphene: An <i>ab initio</i> DFT study with van der Waals corrections correlated with electron microscopy data. <i>Physical Review B</i> , 2013, 87, .	3.2	84
11	Structural Studies of Bis-Catecholate, Bis-Dithiocatecholate, and Tetraalkoxy Diborane(4) Compounds. <i>Inorganic Chemistry</i> , 1998, 37, 5289-5293.	4.0	82
12	The role of trace additions of alumina to yttria-tetragonal zirconia polycrystals (Y-TZP). <i>Scripta Materialia</i> , 2001, 45, 653-660.	5.2	80
13	Stacking Variants and Superconductivity in the Bi ₂ Se ₃ System. <i>Journal of the American Chemical Society</i> , 2013, 135, 5372-5374.	13.7	80
14	Synthesis and Characterization of Rhodium(I) Boryl and Rhodium(III) Tris(Boryl) Compounds: Molecular Structures of $[(PMe_3)_4Rh(B(cat))]$ and $fac\text{-}[(PMe_3)_3Rh(B(cat))_3]$ (cat = 1,2-O ₂ C ₆ H ₄). <i>Inorganic Chemistry</i> , 1997, 36, 272-273.	4.0	79
15	Lewis-base adducts of the diborane(4) compounds B ₂ (1,2-E ₂ C ₆ H ₄) ₂ (E = O or S). <i>Journal of the Chemical Society Dalton Transactions</i> , 1997, , 839-846.	1.1	78
16	Single-atom spectroscopy of phosphorus dopants implanted into graphene. <i>2D Materials</i> , 2017, 4, 021013.	4.4	77
17	Electronic Structure Modification of Ion Implanted Graphene: The Spectroscopic Signatures of p- and n-Type Doping. <i>ACS Nano</i> , 2015, 9, 11398-11407.	14.6	75
18	Theoretical investigation of the ELNES of transition metal carbides for the extraction of structural and bonding information. <i>Physical Review B</i> , 2001, 63, .	3.2	71

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19	Platinum-catalysed 1,4-diboration of 1,3-dienes. <i>Journal of the Chemical Society Dalton Transactions</i> , 1998, , 1431-1438.	1.1	70
20	An investigation of commercial gamma-Al ₂ O ₃ nanoparticles. <i>Journal of Physics: Conference Series</i> , 2010, 241, 012096.	0.4	69
21	Ab initio study of the intermetallics in Nb–Si binary system. <i>Intermetallics</i> , 2014, 54, 125-132.	3.9	69
22	Electronic structure of GaN and In _x Ga _{1-x} N measured with electron energy-loss spectroscopy. <i>Physical Review B</i> , 2002, 66, .	3.2	63
23	Electron irradiation of nuclear graphite studied by transmission electron microscopy and electron loss spectroscopy. <i>Carbon</i> , 2015, 83, 106-117.	10.3	62
24	Phosphine promoted substituent redistribution reactions of B-chlorocatechol borane: molecular structures of ClBcat, BrBcat and Li·ClBcat (cat = 1,2-O ₂ C ₆ H ₄ ; L = PMe ₃ , PEt ₃ , PBut ₃ , PCy ₃ , NEt ₃). <i>Dalton Transactions RSC</i> , 2001, , 1201-1209.	6.3	61
25	Experimental and theoretical evidence for the magic angle in transmission electron energy loss spectroscopy. <i>Ultramicroscopy</i> , 2003, 96, 523-534.	1.9	61
26	Synthesis, optical properties, crystal structures and phase behaviour of selectively fluorinated 1,4-bis(4-pyridylethynyl)benzenes, 4-(phenylethynyl)pyridines and 9,10-bis(4-pyridylethynyl)anthracene, and a Zn(NO ₃) ₂ coordination polymer. <i>Journal of Materials Chemistry</i> , 2004, 14, 2395.	6.7	57
27	Evidence for the solubility of boron in graphite by electron energy loss spectroscopy. <i>Carbon</i> , 2000, 38, 547-554.	10.3	56
28	Subangstrom Edge Relaxations Probed by Electron Microscopy in Hexagonal Boron Nitride. <i>Physical Review Letters</i> , 2012, 109, 205502.	7.8	52
29	A Study of Commercial Nanoparticulate γ-Al ₂ O ₃ Catalyst Supports. <i>ChemCatChem</i> , 2013, 5, 2695-2706.	3.7	50
30	Boron–boron bond oxidative addition to rhodium(I) and iridium(I) centres. <i>Journal of the Chemical Society Dalton Transactions</i> , 1998, , 301-310.	1.1	48
31	Nanoscale electron diffraction and plasmon spectroscopy of single- and few-layer boron nitride. <i>Physical Review B</i> , 2012, 85, .	3.2	46
32	Tetrahydrofuran Adducts of Bismuth Trichloride and Bismuth Tribromide. <i>Inorganic Chemistry</i> , 1996, 35, 3709-3712.	4.0	42
33	On the nature of cracks and voids in nuclear graphite. <i>Carbon</i> , 2016, 103, 45-55.	10.3	41
34	Synthesis, optical properties, crystal structures and phase behaviour of symmetric, conjugated ethynylarene-based rigid rods with terminal carboxylate groups. <i>Journal of Materials Chemistry</i> , 2005, 15, 690-697.	6.7	40
35	Oxidative addition of a B–B bond by an iridium(I) complex: molecular structure of mer-cis-[Ir(PMe ₃) ₃ Cl(Bcat) ₂]. <i>Canadian Journal of Chemistry</i> , 1996, 74, 2026-2031.	1.1	39
36	Universal synthesis method for mixed phase TiO ₂ (B)/anatase TiO ₂ thin films on substrates via a modified low pressure chemical vapour deposition (LPCVD) route. <i>Journal of Materials Chemistry A</i> , 2016, 4, 5685-5699.	10.3	39

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37	Extended Interplanar Linking in Graphite Formed from Vacancy Aggregates. <i>Physical Review Letters</i> , 2013, 111, 095501.	7.8	36
38	Electron energy loss near edge structure on the nitrogen K-edge in vanadium nitrides. <i>Journal of Microscopy</i> , 2002, 204, 166-171.	1.8	35
39	Self-association of organic solutes in solution: a NEXAFS study of aqueous imidazole. <i>Faraday Discussions</i> , 2015, 179, 269-289.	3.2	35
40	Neutral thiolates of antimony(III) and bismuth(III). <i>Journal of the Chemical Society Dalton Transactions</i> , 1995, , 2129.	1.1	29
41	Ab Initio Study of Binary and Ternary Nb ₃ (X,Y) Al ₅ Intermetallic Phases (X,Y=Al, Ge, Si, Sn). <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015, 46, 566-576.	2.2	29
42	High resolution electron microscopy of ceria-supported catalysts. <i>Ultramicroscopy</i> , 1990, 34, 10-16.	1.9	28
43	Incisive Probing of Intermolecular Interactions in Molecular Crystals: Core Level Spectroscopy Combined with Density Functional Theory. <i>Journal of Physical Chemistry B</i> , 2014, 118, 12121-12129.	2.6	28
44	Isolation and structural characterization of novel compounds containing B ₄ O ₂ rings. <i>Polyhedron</i> , 1997, 16, 2325-2328.	2.2	24
45	Application of Nomarski differential interference contrast microscopy to highlight the prior austenite grain boundaries revealed by thermal etching. <i>Materials Characterization</i> , 2010, 61, 584-588.	4.4	24
46	Synthesis of rhodium and iridium boryl complexes via oxidative addition of haloboranes. <i>Inorganica Chimica Acta</i> , 2005, 358, 1501-1509.	2.4	23
47	A systematic approach to choosing parameters for modelling fine structure in electron energy-loss spectroscopy. <i>Ultramicroscopy</i> , 2009, 109, 1374-1388.	1.9	23
48	Thermodynamic study and re-assessment of the Ge-Ni system. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2012, 38, 23-34.	1.6	23
49	A time-dependent atomistic reconstruction of severe irradiation damage and associated property changes in nuclear graphite. <i>Carbon</i> , 2017, 120, 111-120.	10.3	23
50	, the First Cyclized Lithium Amide Ladder: Synthesis and Structure of Hexamethyleneimidolithium. <i>Angewandte Chemie International Edition in English</i> , 1989, 28, 1241-1243.	4.4	19
51	Salts of the Bis(catecholato)borate Anion with Organic Cations. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 1998, 54, 1875-1880.	0.4	19
52	Structural, Spectroscopic, and Excitonic Dynamic Characterization in Atomically Thin Yb ³⁺ -Doped MoS ₂ , Fabricated by Femtosecond Pulsed Laser Deposition. <i>Advanced Optical Materials</i> , 2019, 7, 1900753.	7.3	17
53	($\frac{1}{2}$ -Pinacolato-O,O')-bis(pinacolato-O,O')diboron. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 1996, 52, 2545-2547.	0.4	16
54	Electron energy loss spectroscopy of nano-scale CrAlYN/CrN/CrAlY(O)N/Cr(O)N multilayer coatings deposited by unbalanced magnetron sputtering. <i>Thin Solid Films</i> , 2010, 518, 5121-5127.	1.8	16

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55	Influence of Aluminum Alloying and Heating Rate on Austenite Formation in Low Carbon-Manganese Steels. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2011, 42, 2591-2608.	2.2	16
56	Atomic-Scale Surface Roughness of Rutile and Implications for Organic Molecule Adsorption. <i>Langmuir</i> , 2013, 29, 6876-6883.	3.5	16
57	Salts of the bis(catecholato)borate anion with rhodium ⁺ and iridium ⁺ phosphine complex cations. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 1999, 55, 733-739.	0.4	15
58	Electron energy-loss spectroscopy (EELS) studies of an yttria stabilized TZP ceramic. <i>Journal of the European Ceramic Society</i> , 2004, 24, 2023-2029.	5.7	14
59	The effect of deliberate aluminium additions on the microstructure of rolled steel plate characterized using EBSD. <i>Materials Characterization</i> , 2010, 61, 159-167.	4.4	13
60	Energy of Step Defects on the TiO ₂ Rutile (110) Surface: An ab initio DFT Methodology. <i>Journal of Physical Chemistry C</i> , 2013, 117, 23766-23780.	3.1	13
61	Observation of thermally etched grain boundaries with the FIB/TEM technique. <i>Materials Characterization</i> , 2013, 84, 28-33.	4.4	11
62	Three PtIIcatecholate and 1,2-dithiocatecholate complexes. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 1999, 55, 1272-1275.	0.4	9
63	1:1 Adducts of 4-picoline with methylcatecholborane and phenylcatecholborane. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 1999, 55, 1885-1888.	0.4	9
64	Assessment of the thermodynamic properties and phase diagram of the Bi-Pd system. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2006, 30, 14-17.	1.6	7
65	Understanding the effect of aluminium on microstructure in low level nitrogen steels. <i>Materials Science and Technology</i> , 2009, 25, 1243-1248.	1.6	7
66	Tetrakis(1/4-benzoato)bis[(N,N-diethylnicotinamide)zinc(II)]. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2002, 58, m121-m122.	0.2	6
67	2,3,5,6-Tetrakis[3,5-bis(trifluoromethyl)phenoxy]-2,5-bis(dimethylamino)2,3,5,6-tetrahydro-1,4-dioxane diethyl ether 0.667-solvate. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2007, 63, o603-o605.	0.4	6
68	Demonstration of elemental partitioning during austenite formation in low-carbon aluminium alloyed steel. <i>Journal of Materials Science</i> , 2011, 46, 2384-2387.	3.7	6
69	Structure of different grades of nuclear graphite. <i>Journal of Physics: Conference Series</i> , 2012, 371, 012017.	0.4	6
70	Dielectric response of pentagonal defects in multilayer graphene nano-cones. <i>Nanoscale</i> , 2014, 6, 1833-1839.	5.6	6
71	Cation complexation by mucoid <i>Pseudomonas aeruginosa</i> extracellular polysaccharide. <i>PLoS ONE</i> , 2021, 16, e0257026.	2.5	6
72	The Product of Catalysed Diboration of Bis(4-methoxyphenyl)ethyne by Bis(pinacolato-O,O')diboron. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 1996, 52, 1989-1991.	0.4	5

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73	Diaquabis(N,N-diethylnicotinamide)bis(4-nitrobenzoato)zinc(II). Acta Crystallographica Section E: Structure Reports Online, 2001, 57, m465-m466.	0.2	5
74	A linear trinuclear CaZn ₂ complex with bridging benzoate ligands. Acta Crystallographica Section E: Structure Reports Online, 2002, 58, m123-m124.	0.2	5
75	Understanding the role of aluminium in low level nitrogen steels via microstructural characterisation. Journal of Physics: Conference Series, 2008, 126, 012019.	0.4	5
76	Analysis of computational EELS modelling results for MgO-based systems. Ultramicroscopy, 2010, 110, 1059-1069.	1.9	5
77	The Products of Catalysed Diboration of Bis(p-tolyl)ethyne and of 4-Cyanophenylethyne by Bis(catecholato-O,O')diboron. Acta Crystallographica Section C: Crystal Structure Communications, 1996, 52, 1991-1995.	0.4	4
78	Diaquabis(N,N-diethylnicotinamide)bis(2-hydroxybenzoato)zinc(II). Acta Crystallographica Section E: Structure Reports Online, 2001, 57, m462-m464.	0.2	4
79	Investigating large vacancy clusters in type IIa diamond with electron energy loss spectroscopy (EELS). Physica Status Solidi (A) Applications and Materials Science, 2007, 204, 3065-3071.	1.8	4
80	Ab-initio modelling, polarity and energetics of clean rutile surfaces in vacuum and comparison with water environment. Journal of Physics: Conference Series, 2012, 371, 012059.	0.4	4
81	Atomic-scale interactions between quorum sensing autoinducer molecules and the mucoid P. aeruginosa exopolysaccharide matrix. Scientific Reports, 2022, 12, 7724.	3.3	4
82	Some thoughts on Source Monochromation and the Implications for Electron Energy Loss Spectroscopy. International Journal of Materials Research, 2003, 94, 277-281.	0.8	3
83	A 2-styrylboronate ester. Acta Crystallographica Section E: Structure Reports Online, 2001, 57, o63-o65.	0.2	2
84	Diaquabis(4-nitrobenzoato)zinc(II): a redetermination. Acta Crystallographica Section E: Structure Reports Online, 2001, 57, m472-m474.	0.2	2
85	Accurate analysis of EBSD data for phase identification. Journal of Physics: Conference Series, 2010, 241, 012104.	0.4	2
86	Electron microscopy of nuclear graphite: A modelling approach. Journal of Physics: Conference Series, 2012, 371, 012061.	0.4	2
87	Hydridodichlorotris(methyldiphenylphosphine)rhodium(III) dichloromethane trisolvate. Acta Crystallographica Section E: Structure Reports Online, 2002, 58, m408-m409.	0.2	1
88	Trichloro(perdeuteroacetonitrile)bis(triphenylphosphine)rhodium(III). Acta Crystallographica Section E: Structure Reports Online, 2002, 58, m410-m411.	0.2	1
89	(E)-2-[2-(4-Methylphenyl)ethenyl]-1,3,2-benzodioxaborole. Acta Crystallographica Section E: Structure Reports Online, 2004, 60, o1172-o1174.	0.2	1
90	(E)-2-[2-[4-(Trifluoromethyl)phenyl]ethenyl]-1,3,2-benzodioxaborole. Acta Crystallographica Section E: Structure Reports Online, 2004, 60, o1175-o1177.	0.2	1

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91	Effects of aerosol heating rate on the properties of aggregates of lead zirconate titanate nanoparticles produced by spray pyrolysis. <i>Journal of Materials Science</i> , 2008, 43, 6353-6358.	3.7	1
92	EELS modelling of graphitisation. <i>Journal of Physics: Conference Series</i> , 2014, 522, 012014.	0.4	1
93	Bis[bis(dicyclohexylphosphino)ethane- κ^2 P, κ^2]gold(I) chloride chloroform tetrasolvate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2004, 60, m968-m970.	0.2	0
94	EELS and ELNES studies of nano-scale nitride multilayers deposited by unbalanced magnetron sputtering. <i>Journal of Physics: Conference Series</i> , 2010, 241, 012046.	0.4	0
95	Computational EELS modelling of magnesium oxide systems. <i>Journal of Physics: Conference Series</i> , 2010, 241, 012063.	0.4	0
96	Simulating Neutron Radiation Damage of Graphite by In-situ Electron Irradiation. <i>Journal of Physics: Conference Series</i> , 2014, 522, 012051.	0.4	0