Andrew R Barron

List of Publications by Citations

490 papers	14,021 citations	59 h-index	92 g-index
503 ext. papers	14,994 ext. citations	5.8 avg, IF	6.67 L-index

#	Paper	IF	Citations
490	High-yield organic dispersions of unfunctionalized graphene. *Nano Letters*, **2009**, 9, 3460-2	11.5	445
489	Hydrolysis of tri-tert-butylaluminum: the first structural characterization of alkylalumoxanes [(R2Al)2O]n and (RAlO)n. *Journal of the American Chemical Society*, **1993**, 115, 4971-4984	16.4	443
488	Effects of mechanical flexion on the penetration of fullerene amino acid-derivatized peptide nanoparticles through skin. *Nano Letters*, **2007**, 7, 155-60	11.5	267
487	Three-Coordinate Aluminum Is Not a Prerequisite for Catalytic Activity in the Zirconocene-Alumoxane Polymerization of Ethylene. *Journal of the American Chemical Society*, **1995**, 117, 6465-6474	16.4	220
486	Single wall carbon nanotube amplification: en route to a type-specific growth mechanism. *Journal of the American Chemical Society*, **2006**, 128, 15824-9	16.4	196
485	Overcoming the "coffee-stain" effect by compositional Marangoni-flow-assisted drop-drying. *Journal of Physical Chemistry B*, **2012**, 116, 6536-42	3.4	189
484	Synthesis, characterization, and carbon dioxide adsorption of covalently attached polyethyleneimine-functionalized single-wall carbon nanotubes. *ACS Nano*, **2008**, 2, 156-64	16.7	187
483	Tert-Butylaluminum Hydroxides and Oxides: Structural Relationship between Alkylalumoxanes and Alumina Gels. *Organometallics*, **1994**, 13, 2957-2969	3.8	173
482	Biological interactions of functionalized single-wall carbon nanotubes in human epidermal keratinocytes. *International Journal of Toxicology*, **2007**, 26, 103-13	2.4	160
481	Silica Coated Single Walled Carbon Nanotubes. *Nano Letters*, **2003**, 3, 775-778	11.5	159
480	Inhibitive properties and surface morphology of a group of heterocyclic diazoles as inhibitors for acidic iron corrosion. *Langmuir*, **2005**, 21, 12187-96	4	148
479	Alumina and aluminate ultrafiltration membranes derived from alumina nanoparticles. *Journal of Membrane Science*, **2003**, 224, 11-28	9.6	147
478	Nitrene addition to exfoliated graphene: a one-step route to highly functionalized graphene. *Chemical Communications*, **2010**, 46, 4097-9	5.8	130
477	Cement Hydration Inhibition with Sucrose, Tartaric Acid, and Lignosulfonate: Analytical and Spectroscopic Study. *Industrial & Engineering Chemistry Research*, **2006**, 45, 7042-7049	3.9	130
476	Fullerene-based amino acid nanoparticle interactions with human epidermal keratinocytes. *Toxicology in Vitro*, **2006**, 20, 1313-20	3.6	120
475	Synthesis of polycrystalline chalcopyrite semiconductors by microwave irradiation. *Science*, **1993**, 260, 1653-5	33.3	119
474	Simple route to enhanced photocatalytic activity of p25 titanium dioxide nanoparticles by silica addition. *Environmental Science & Technology*, **2011**, 45, 1563-8	10.3	114

473	From minerals to materials: synthesis of alumoxanes from the reaction of boehmite with carboxylic acids. *Journal of Materials Chemistry*, **1995**, 5, 331-341		114
472	Organic compounds in produced waters from shale gas wells. *Environmental Sciences: Processes and Impacts*, **2014**, 16, 2237-48	4.3	110
471	A New Mechanism for Cement Hydration Inhibition: Solid-State Chemistry of Calcium Nitrilotris(methylene)triphosphonate. *Chemistry of Materials*, **2003**, 15, 3074-3088	9.6	110
470	Branched Hydrocarbon Low Surface Energy Materials for Superhydrophobic Nanoparticle Derived Surfaces. *ACS Applied Materials & Interfaces*, **2016**, 8, 660-6	9.5	107
469	Ultrasmall copper nanoparticles from a hydrophobically immobilized surfactant template. *Nano Letters*, **2009**, 9, 2239-42	11.5	107
468	Determination of the mode and efficacy of the cross-linking of guar by borate using MAS 11B NMR of borate cross-linked guar in combination with solution 11B NMR of model systems. *Dalton Transactions*, **2004**, 2621-34	4.3	104
467	Aluminum citrate: isolation and structural characterization of a stable trinuclear complex. *Inorganic Chemistry*, **1990**, 29, 408-411	5.1	104
466	The quest for terminal phosphinidene complexes. *Accounts of Chemical Research*, **1988**, 21, 81-87	24.3	100
465	Alumoxanes as Cocatalysts in the Palladium-Catalyzed Copolymerization of Carbon Monoxide and Ethylene: Genesis of a Structure□Activity Relationship. *Organometallics*, **1996**, 15, 2213-2226	3.8	98
464	Chemical vapor deposition of cubic gallium sulfide thin films: a new metastable phase. *Chemistry of Materials*, **1992**, 4, 11-14	9.6	98
463	Nanoreinforcement of poly(propylene fumarate)-based networks with surface modified alumoxane nanoparticles for bone tissue engineering. *Biomacromolecules*, **2004**, 5, 1990-8	6.9	95
462	The recycling and reuse of steelmaking slags □A review. *Resources, Conservation and Recycling*, **2019**, 146, 244-255	11.9	92
461	Sterically crowded aryloxide compounds of aluminum. *Organometallics*, **1988**, 7, 2543-2548	3.8	92
460	Chemical Vapor Deposition of Hexagonal Gallium Selenide and Telluride Films from Cubane Precursors: Understanding the Envelope of Molecular Control. *Chemistry of Materials*, **1997**, 9, 3037-3048	9.6	89
459	Aqueous Synthesis of Water-Soluble Alumoxanes: Environmentally Benign Precursors to Alumina and Aluminum-Based Ceramics. *Chemistry of Materials*, **1997**, 9, 2418-2433	9.6	85
458	Oxidation and hydrolysis of tris-tert-butylgallium. *Polyhedron*, **1992**, 11, 477-486	2.7	85
457	Chemically functionalized alumina nanoparticle effect on carbon fiber/epoxy composites. *Composites Science and Technology*, **2005**, 65, 2250-2258	8.6	82
456	Substituent effects on the volatility of metal □diketonates. *Advanced Materials for Optics and Electronics*, **2000**, 10, 223-232		82

455	Fabrication and characteristics of black silicon for solar cell applications: An overview. *Materials Science in Semiconductor Processing*, **2014**, 25, 2-17	4.3	80
454	Chemical vapor deposition of gallium sulfide: phase control by molecular design. *Chemistry of Materials*, **1993**, 5, 1344-1351	9.6	80
453	Enhancement of photoluminescence intensity of GaAs with cubic GaS chemical vapor deposited using a structurally designed single-source precursor. *Applied Physics Letters*, **1993**, 62, 711-713	3.4	79
452	.pi.-Face selectivity of coordinated ketones to nucleophilic additions: the importance of aluminum-oxygen .pi.-bonding. *Journal of the American Chemical Society*, **1990**, 112, 3446-3451	16.4	79
451	A new functionalization strategy for oil/water separation membranes. *Journal of Membrane Science* , **2011**, 382, 107-115	9.6	76
450	Fullerene-derivatized amino acids: synthesis, characterization, antioxidant properties, and solid-phase peptide synthesis. *Chemistry - A European Journal*, **2007**, 13, 2530-45	4.8	74
449	Post-Synthetic Ligand Exchange in Zirconium-Based Metal-Organic Frameworks: Beware of The Defects!. *Angewandte Chemie - International Edition*, **2018**, 57, 11706-11710	16.4	73
448	Interaction of tri-tert-butylgallium with elemental sulfur, selenium, and tellurium. *Organometallics*, **1992**, 11, 1055-1063	3.8	73
447	New Method for the Determination of the Trialkylaluminum Content in Alumoxanes. *Organometallics*, **1995**, 14, 3581-3583	3.8	71
446	Epoxidation and deoxygenation of single-walled carbon nanotubes: quantification of epoxide defects. *Journal of the American Chemical Society*, **2006**, 128, 11322-3	16.4	70
445	Structural Characterization of Dialkylaluminum Carboxylates: Models for Carboxylate Alumoxanes. *Organometallics*, **1997**, 16, 329-341	3.8	68
444	Aluminium complexes of N,N?-ethylenebis(salicylideneimine)(H2salen). X-Ray crystal structures of [{Al(salen)}2(□-O)]□MeCN and [Al(OC6H2Me3-2,4,6)(salen)]. *Journal of the Chemical Society Dalton Transactions*, **1991**, 1449-1456		66
443	Graphite epoxide. *Journal of the American Chemical Society*, **2008**, 130, 5414-5	16.4	64
442	[Al5(tBu)5(.mu.3-O)2(.mu.3-OH)2(.mu.-OH)2(.mu.-O2CPh)2]: A Model for the Interaction of Carboxylic Acids with Boehmite. *Organometallics*, **1995**, 14, 4026-4029	3.8	64
441	Nanoscale enzyme inhibitors: fullerenes inhibit carbonic anhydrase by occluding the active site entrance. *Bioorganic and Medicinal Chemistry*, **2010**, 18, 2822-8	3.4	63
440	Ceramic membranes derived from ferroxane nanoparticles: a new route for the fabrication of iron oxide ultrafiltration membranes. *Journal of Membrane Science*, **2003**, 227, 207-217	9.6	62
439	Reaction of tri-tert-butylindium with dioxygen. Synthesis and molecular structure of [(tert-Bu)2In(OO-tert-Bu)]2. *Journal of the American Chemical Society*, **1989**, 111, 8966-8967	16.4	62
438	Solid-State NMR Analysis of Fluorinated Single-Walled Carbon Nanotubes: Assessing the Extent of Fluorination. *Chemistry of Materials*, **2007**, 19, 735-744	9.6	61

437	Sterically crowded aryloxide compounds of aluminum. *Coordination Chemistry Reviews*, **1994**, 130, 63-135	13.2	61
436	Endocytic mechanisms and toxicity of a functionalized fullerene in human cells. *Toxicology Letters*, **2009**, 191, 149-57	4.4	60
435	MOCVD of group III chalcogenides. *Advanced Materials for Optics and Electronics*, **1995**, 5, 245-258		60
434	Carboxylate-Substituted Alumoxanes as Processable Precursors to Transition Metal−Aluminum and Lanthanide−Aluminum Mixed-Metal Oxides: Atomic Scale Mixing via a New Transmetalation Reaction. *Chemistry of Materials*, **1996**, 8, 2331-2340	9.6	60
433	Gallium arsenide transistors: realization through a molecularly designed insulator. *Science*, **1994**, 263, 1751-3	33.3	60
432	Tailoring aqueous solubility of functionalized single-wall carbon nanotubes over a wide pH range through substituent chain length. *Nano Letters*, **2005**, 5, 2001-4	11.5	59
431	.pi.-Bonding in four-coordinate aluminum aryloxide compounds. *Journal of the American Chemical Society*, **1990**, 112, 2949-2954	16.4	59
430	Doping silicon nanocrystals and quantum dots. *Nanoscale*, **2016**, 8, 1733-45	7.7	58
429	Reaction of Trimethylaluminum with [(tBu)Al(μ-O)]6: Hybrid tert-Butylmethylalumoxanes as Cocatalysts for Olefin Polymerization. *Organometallics*, **2001**, 20, 460-467	3.8	57
428	Steric Effects in Aluminum Compounds Containing Monoanionic Potentially Bidentate Ligands: Toward a Quantitative Measure of Steric Bulk. *Organometallics*, **1999**, 18, 4399-4416	3.8	57
427	tert-Amyl Compounds of Aluminum and Gallium: Halides, Hydroxides, and Chalcogenides. *Organometallics*, **1996**, 15, 5479-5488	3.8	57
426	Synthesis and characterization of triethylsiloxy-substituted alumoxanes: their structural relationship to the minerals boehmite and diaspore. *Chemistry of Materials*, **1992**, 4, 167-182	9.6	56
425	Silica decorated TiO2 for virus inactivation in drinking water--simple synthesis method and mechanisms of enhanced inactivation kinetics. *Environmental Science & Technology*, **2013**, 47, 6463-70	10.3	55
424	Anti-reflection layers fabricated by a one-step copper-assisted chemical etching with inverted pyramidal structures intermediate between texturing and nanopore-type black silicon. *Journal of Materials Chemistry A*, **2014**, 2, 12043	13	54
423	Galloxane and Alumoxane Hydroxides: [Ga12tBu12(μ3-O)8(μ2-O)2(μ2-OH)4] and [Al6tBu6(μ3-O)4(μ2-OH)4]. *Angewandte Chemie International Edition in English*, **1995**, 34, 1201-1202		54
422	Mesitylindium(III) compounds. X-ray crystal structures of InMes3, [NMe4][InClMes3], and [InClMes2]2. *Organometallics*, **1989**, 8, 2214-2219	3.8	53
421	Demonstration of covalent sidewall functionalization of single wall carbon nanotubes by NMR spectroscopy: Side chain length dependence on the observation of the sidewall sp3 carbons. *Nano Research*, **2008**, 1, 72-88	10	52
420	Silica-Coated Single-Walled Nanotubes: Nanostructure Formation. *Chemistry of Materials*, **2004**, 16, 2691-2693	9.6	52

419	Group 2 element and related compounds as chemical vapour deposition precursors for high-temperature superconducting metal oxides. *Advanced Materials for Optics and Electronics*, **1993**, 2, 271-288		52
418	Interaction of organic carbonyls with sterically crowded aryloxide compounds of aluminum. *Organometallics*, **1990**, 9, 3086-3097	3.8	52
417	Theoretical investigation of aluminum-oxygen .pi.-bonding in 3- and 4-coordinate aluminum alkoxides. *Journal of the American Chemical Society*, **1991**, 113, 39-43	16.4	52
416	Silica Nanoparticle Enhancement in the Efficiency of Surfactant Flooding of Heavy Oil in a Glass Micromodel. *Industrial & Engineering Chemistry Research*, **2017**, 56, 8528-8534	3.9	51
415	The use of fullerene substituted phenylalanine amino acid as a passport for peptides through cell membranes. *Organic and Biomolecular Chemistry*, **2007**, 5, 260-6	3.9	51
414	The Interaction of Tri-tert-butylgallium with White Phosphorus: Isolation of an Unusual Gallium Phosphorus Cluster. *Angewandte Chemie International Edition in English*, **1991**, 30, 1353-1354		51
413	Adducts of trimethylaluminium with phosphine ligands; electronic and steric effects. *Journal of the Chemical Society Dalton Transactions*, **1988**, 3047		51
412	In silico drug screening approach for the design of magic bullets: a successful example with anti-HIV fullerene derivatized amino acids. *Journal of Chemical Information and Modeling*, **2009**, 49, 1139-43	6.1	50
411	Synthesis of Chalcopyrite Semiconductors and Their Solid Solutions by Microwave Irradiation. *Chemistry of Materials*, **1995**, 7, 699-706	9.6	50
410	Dimethylaluminium alkoxides: a physico-chemical investigation. *Journal of the Chemical Society Dalton Transactions*, **1992**, 3179		50
409	Topological reorganization of gallium-sulfido clusters. *Organometallics*, **1992**, 11, 2783-2790	3.8	50
408	Electronic passivation of n- and p-type GaAs using chemical vapor deposited GaS. *Applied Physics Letters*, **1993**, 63, 625-627	3.4	49
407	The reaction of indium(III) chloride with tris(trimethylsilyl)phosphine: a novel route to indium phosphide. *Journal of the Chemical Society Chemical Communications*, **1989**, 359		49
406	Diels-Alder addition to fluorinated single walled carbon nanotubes. *Chemical Communications*, **2005** , 3265-7	5.8	48
405	Dextran coated ultrafine superparamagnetic iron oxide nanoparticles: compatibility with common fluorometric and colorimetric dyes. *Analytical Chemistry*, **2011**, 83, 3778-85	7.8	47
404	Sterically crowded aryloxide compounds of aluminium: hydrides and homoleptic aryloxides. *Journal of the Chemical Society Dalton Transactions*, **1993**, 441		47
403	Volatility Studies on Gallium Chalcogenide Cubanes: Thermal Analysis and Determination of Sublimation Enthalpies. *Chemistry of Materials*, **1997**, 9, 796-806	9.6	46
402	1,3-Diaryltriazenido compounds of aluminum. *Inorganic Chemistry*, **1993**, 32, 4324-4336	5.1	46

401	Indium tert-butylthiolates as single source precursors for indium sulfide thin films: Is molecular design enough?. *Journal of Organometallic Chemistry*, **1993**, 449, 95-104	2.3	46
400	Reaction of 1,3-diols with Al(tBu)3 and Ga(tBu)3: aluminium- and gallium-based bifunctional tetradentate ligands. *Dalton Transactions RSC*, **2000**, 2151-2161		45
399	Chemical vapor deposition of Gallium selenide and indium selenide nanoparticles. *Chemical Vapor Deposition*, **1996**, 2, 182-184		45
398	Gallium and indium compounds of sulphur donor ligands: Pyridine-2-thiolates and diphenylthiophosphinates. *Polyhedron*, **1996**, 15, 391-402	2.7	45
397	Synthesis and molecular structure of {[N(CH2CH2O)3]Al2(CH3)3}2: the first six-coordinate aluminum alkyl. *Journal of the American Chemical Society*, **1989**, 111, 398-399	16.4	45
396	Cleavage of poly(diorganosiloxanes) by trimethylaluminum. *Organometallics*, **1990**, 9, 2137-2141	3.8	45
395	Alumina ultrafiltration membranes derived from carboxylate□lumoxane nanoparticles. *Journal of Membrane Science*, **2001**, 193, 175-184	9.6	44
394	Nanopore-type black silicon anti-reflection layers fabricated by a one-step silver-assisted chemical etching. *Physical Chemistry Chemical Physics*, **2013**, 15, 9862-70	3.6	43
393	Fluorescence Quenching of Single-Walled Carbon Nanotubes in SDBS Surfactant Suspension by Metal Ions: Quenching Efficiency as a Function of Metal and Nanotube Identity□ *Journal of Physical Chemistry C*, **2007**, 111, 17812-17820	3.8	43
392	Characteristics of ultrafiltration ceramic membranes derived from alumoxane nanoparticles. *Journal of Membrane Science*, **2002**, 205, 33-43	9.6	43
391	Cleavage of Cyclodimethylsiloxanes by Dialkylaluminum Hydrides and the Nature of the Siloxyaluminum Products. *Organometallics*, **1999**, 18, 5395-5408	3.8	43
390	Radical addition of perfluorinated alkyl iodides to multi-layered graphene and single-walled carbon nanotubes. *Nano Research*, **2010**, 3, 138-145	10	42
389	Synthesis and Characterization of Carboxylate□eOOH Nanoparticles (Ferroxanes) and Ferroxane-Derived Ceramics. *Chemistry of Materials*, **2002**, 14, 621-628	9.6	41
388	Aluminium and gallium compounds of salicylic and anthranilic acids: examples of weak intra-molecular hydrogen bonding. *Dalton Transactions RSC*, **2001**, 1253-1258		41
387	Metal□Organic Chemical Vapor Deposition of Indium Selenide Thin Films. *Chemistry of Materials*, **1998**, 10, 650-657	9.6	41
386	Metal-Promoted Cyclotrimerization of a □-Phosphaalkyne: Formation of a Molybdenum-Coordinated 1,3,5-Triphosphabenzene. *Angewandte Chemie International Edition in English*, **1987**, 26, 907-908		41
385	Optimization of organic solar cells with thin film Au as anode. *Solar Energy Materials and Solar Cells*, **2011**, 95, 2424-2430	6.4	40
384	Very fast MAS and MQMAS NMR studies of the spectroscopically challenging minerals kyanite and andalusite on 400, 500, and 800 MHz spectrometers. *Solid State Nuclear Magnetic Resonance*, **1999**, 14, 1-18	3.1	40

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382	Reaction of the phospha-alkyne ArCP (Ar = 2,4,6-But3C6H2) with nucleophiles: a new approach to 1,3-diphosphabutadiene synthesis. *Journal of the Chemical Society Chemical Communications*, **1988**, 171-172		40
381	Reaction of hydroxyfullerene with metal salts: a route to remediation and immobilization. *Journal of the American Chemical Society*, **2005**, 127, 10458-9	16.4	39
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378	Meldola Lecture. Reactions of Group 13 alkyls with dioxygen and elemental chalcogens: from carelessness to chemistry. *Chemical Society Reviews*, **1993**, 22, 93	58.5	39
377	Reactivity of organogallium peroxides: oxidation of phosphines, phosphites, and triphenylarsine. X-ray crystal structures of (tert-Bu)2Ga(O-tert-Bu)(O:AsPh3), (tert-Bu)2Ga(.mu.-O-tert-Bu)(.mu.-OO-tert-Bu)Ga(tert-Bu)2 and [cyclic] (tert-Bu)2Ga[(O)P(Ph)2CH(O)P(Ph)2]. *Organometallics*, **1993**, 12, 4908-4916	3.8	39
376	Enhanced purification of carbon nanotubes by microwave and chlorine cleaning procedures. *RSC Advances*, **2016**, 6, 11895-11902	3.7	38
375	Effect of carbon nanotube-fullerene hybrid additive on P3HT:PCBM bulk-heterojunction organic photovoltaics. *Synthetic Metals*, **2012**, 162, 95-101	3.6	38
374	Growth, new growth, and amplification of carbon nanotubes as a function of catalyst composition. *Journal of the American Chemical Society*, **2008**, 130, 7946-54	16.4	38
373	A new approach to enhancing the CO capture performance of defective UiO-66 via post-synthetic defect exchange. *Dalton Transactions*, **2019**, 48, 3349-3359	4.3	38
372	Single-walled carbon nanotubes: differential genotoxic potential associated with physico-chemical properties. *Nanotoxicology*, **2013**, 7, 144-56	5.3	37
371	Alcohol and secondary amine complexes oftri-tert-butylaluminium: enhanced stability throughintramolecular hydrogen bonding. *Journal of the Chemical Society Dalton Transactions*, **1997**, 3129-3138		37
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369	tert-Butyl compounds of gallium. *Dalton Transactions RSC*, **2000**, 577-588		37
368	Aluminium compounds containing bidentate ligands: chelate ring size and rigid conformation effects. *Journal of the Chemical Society Dalton Transactions*, **1998**, 3305-3310		36
367	Cross-linking amine-rich compounds into high performing selective CO2 absorbents. *Scientific Reports*, **2014**, 4, 7304	4.9	35
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349	Tunable Surface Properties of Aluminum Oxide Nanoparticles from Highly Hydrophobic to Highly Hydrophilic. *ACS Omega*, **2017**, 2, 2507-2514	3.9	30
348	The development of a "process map" for the growth of carbon nanomaterials from ferrocene by injection CVD. *Journal of Materials Chemistry A*, **2013**, 1, 14122	13	30

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341	Reagent control over the size, uniformity, and composition of CoFe nanoparticles. *Journal of Materials Chemistry*, **2008**, 18, 4146		29
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