

Allen W Apblett

List of Publications by Year in descending order

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70
papers

1,402
citations

331670

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361022

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all docs

79
docs citations

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times ranked

1564
citing authors

#	ARTICLE	IF	CITATIONS
1	From minerals to materials: synthesis of alumoxanes from the reaction of boehmite with carboxylic acids. <i>Journal of Materials Chemistry</i> , 1995, 5, 331-341.	6.7	122
2	Corrosion resistance properties of Ormosil coatings on 2024-T3 aluminum alloy. <i>Progress in Organic Coatings</i> , 2004, 50, 231-246.	3.9	113
3	Oxidation and hydrolysis of tris-tert-butylgallium. <i>Polyhedron</i> , 1992, 11, 477-486.	2.2	99
4	Synthesis and characterization of triethylsiloxy-substituted alumoxanes: their structural relationship to the minerals boehmite and diasporite. <i>Chemistry of Materials</i> , 1992, 4, 167-182.	6.7	69
5	Metal ion adsorption using polyamine-functionalized mesoporous materials prepared from bromopropyl-functionalized mesoporous silica. <i>Journal of Hazardous Materials</i> , 2010, 182, 581-590.	12.4	55
6	Cleavage of poly(diorganosiloxanes) by trimethylaluminum. <i>Organometallics</i> , 1990, 9, 2137-2141.	2.3	50
7	Doping Efficiency in Cobalt-Doped ZnO Nanostructured Materials. <i>Journal of Nanomaterials</i> , 2019, 2019, 1-13.	2.7	47
8	Integration of biomass catalytic pyrolysis and methane aromatization over Mo/HZSM-5 catalysts. <i>Journal of Analytical and Applied Pyrolysis</i> , 2016, 120, 484-492.	5.5	46
9	Preparation and x-ray crystal structure of pentaiodine(1+) hexafluoroarsenate(1-) and electronic structure of the pentaiodine(1+) cation. <i>Inorganic Chemistry</i> , 1986, 25, 422-426.	4.0	42
10	Direct Evidence for an Ion-by-Ion Deposition Mechanism in Solution Growth of CdS Thin Films. <i>Chemistry of Materials</i> , 1998, 10, 710-717.	6.7	42
11	Effect of solvent dilution on corrosion protective properties of Ormosil coatings on 2024-T3 aluminum alloy. <i>Progress in Organic Coatings</i> , 2004, 51, 36-46.	3.9	36
12	Imaging the presence of silane coatings in concrete with micro X-ray fluorescence. <i>Cement and Concrete Research</i> , 2017, 92, 121-127.	11.0	36
13	Co-Pyrolysis of torrefied biomass and methane over molybdenum modified bimetallic HZSM-5 catalyst for hydrocarbons production. <i>Green Chemistry</i> , 2017, 19, 757-768.	9.0	35
14	Tris-triphenylsiloxy compounds of aluminum. <i>Canadian Journal of Chemistry</i> , 1992, 70, 771-778.	1.1	34
15	Synthesis and characterization of a hexagonal mesoporous silica with enhanced thermal and hydrothermal stabilities. <i>Applied Surface Science</i> , 2010, 256, 3573-3580.	6.1	33
16	Aldol condensation of ketones promoted by sterically crowded aryloxy compounds of aluminum. <i>Organometallics</i> , 1990, 9, 2529-2534.	2.3	29
17	Siloxy-substituted alumoxanes: synthesis from polydialkylsiloxanes and trimethylaluminum, and application as aluminosilicate precursors. <i>Journal of Materials Chemistry</i> , 1993, 3, 597.	6.7	28
18	Preparation of micron-sized spherical porous iron oxide particles. <i>Journal of Materials Chemistry</i> , 2003, 13, 983-985.	6.7	27

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19	Synthesis and Properties of Anion Exchangers Derived from Chloromethyl Styrene Codivinylbenzene and Their Use in Water Treatment. <i>International Journal of Polymer Science</i> , 2010, 2010, 1-9.	2.7	25
20	Convenient synthesis of thiazyl hexafluoroarsenate(V), [SN] ⁺ [AsF ₆] ⁻ , and small quantities of thiazyl fluoride, NSF. <i>Inorganic Chemistry</i> , 1986, 25, 4451-4452.	4.0	24
21	Direct synthesis of dimethyl carbonate from methanol and carbon dioxide using heteropolyoxometalates: the effects of cation and addenda atoms. <i>Transition Metal Chemistry</i> , 2010, 35, 927-931.	1.4	24
22	Catalytic co-pyrolysis of red cedar with methane to produce upgraded bio-oil. <i>Bioresource Technology</i> , 2019, 285, 121299.	9.6	24
23	Wireless Crack Detection in Concrete Elements Using Conductive Surface Sensors and Radio Frequency Identification Technology. <i>Journal of Materials in Civil Engineering</i> , 2014, 26, 923-929.	2.9	22
24	Chemical vapour deposition of aluminium silicate thin films. <i>Journal of Materials Chemistry</i> , 1991, 1, 143.	6.7	21
25	Benylation of benzene over sulfated zirconia supported in MCM-41 using a single source precursor. <i>Catalysis Science and Technology</i> , 2011, 1, 621.	4.1	19
26	Synthesis, Thermal Behavior, and Structure of Hexaaquanickel(II) Chloro(hydrogenethylenediaminetetraacetato)ferrate(III): A Molecular Precursor for Stoichiometric Nickel Ferrite. <i>Chemistry of Materials</i> , 1996, 8, 650-655.	6.7	18
27	Preparation of Nickel Ferrite Using Liquid Metal Carboxylates. <i>Chemistry of Materials</i> , 1998, 10, 1265-1269.	6.7	18
28	Preparation and X-ray crystal structures of the arsenic pentafluoride adducts of benzo-2,1,3-thiadiazole and benzo-1,2,3-thiadiazole. <i>Canadian Journal of Chemistry</i> , 1986, 64, 849-853.	1.1	15
29	Synthesis and Spectroscopic and Thermal Decomposition Studies of Alkali Metal Salts of 2-Oximidopropionate. <i>Inorganic Chemistry</i> , 1997, 36, 2656-2661.	4.0	15
30	Remediation of arsenic and lead with nanocrystalline zinc sulfide. <i>Nanotechnology</i> , 2012, 23, 294014.	2.6	15
31	Preparation of thiazyl tetrachloroaluminate and trifluoromethanesulfonate and reactions of the thiazyl cation with thiadiazoles and organoselenium halides: x-ray crystal structure of [N ₂ S ₂ SeCl][AlCl ₄]. <i>Inorganic Chemistry</i> , 1990, 29, 1643-1648.	4.0	14
32	Synthesis of mesoporous silica grafted with 3-glycidoxypropyltrimethoxy-silane. <i>Materials Letters</i> , 2009, 63, 2331-2334.	2.6	13
33	The Novel Synthesis of La _{0.8} Sr _{0.2} MnO ₃ Using the Michael-Addition Directed Hydrogelation of Acrylates for Materials Synthesis (MADHAMS) Method. <i>Chemistry of Materials</i> , 2004, 16, 5336-5343.	6.7	12
34	Synthetic and mechanistic investigations of the reactions of organic nitriles with thiazyl chloride and the thermolysis of 1,3-dichloro-1,3,2,4,6-dithiatriazines. <i>Inorganic Chemistry</i> , 1989, 28, 4544-4548.	4.0	11
35	Synthetic applications and spectroscopic investigations of the (NSCl) ₃ SO ₂ Cl ₂ system. <i>Canadian Journal of Chemistry</i> , 1990, 68, 650-654.	1.1	11
36	Tris-triphenylsiloxy compounds of aluminum, II: Molecular structure of Al(OSiPh ₃) ₃ (OEt) ₂ . <i>Journal of Crystallographic and Spectroscopic Research</i> , 1993, 23, 529-532.	0.2	10

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37	Acetone Condensation Over Sulfated Zirconia Catalysts. <i>Catalysis Letters</i> , 2013, 143, 705-716.	2.6	10
38	Synthesis and structure of the norbornene adduct of 1,3,5,2,4,6-trithiatriazinium tetrachloroaluminate [C ₇ H ₁₀ .cntdot.S ₃ N ₃][AlCl ₄]. <i>Inorganic Chemistry</i> , 1991, 30, 1392-1396.	4.0	9
39	Metal Organic Precursors for Yttria. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 1994, 93, 481-482.	1.6	9
40	Rapid Quantification of Sodium Dithionite by Ion Chromatography. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 7742-7746.	3.7	9
41	Low-Temperature Precursors for Titanium Oxide. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 1994, 93, 479-480.	1.6	8
42	Preparation of Zirconium Oxide Powder Using Zirconium Carboxylate Precursors. <i>Advances in Physical Chemistry</i> , 2014, 2014, 1-8.	2.0	8
43	Titania- ⁶⁶ Hydroxypropyl Cellulose Thin Films for the Detection of Peroxide Vapors. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 10205-10212.	8.0	8
44	Density-functional studies of hydrogen peroxide adsorption and dissociation on MoO ₃ (100) and H _{0.33} MoO ₃ (100) surfaces. <i>RSC Advances</i> , 2015, 5, 97755-97763.	3.6	8
45	Bimetallic single-source precursor for the synthesis of pure nanocrystalline room temperature-stabilized I ² -NiMoO ₄ . <i>Ceramics International</i> , 2016, 42, 1366-1372.	4.8	8
46	Negative hyperconjugation in hexachloro-3-cyclopentenylaminosulphenyl halides: Preparation and X-ray structure of C ₅ Cl ₆ NSBr and synthesis of C ₅ Cl ₆ NS+AsF ₆ ⁻ . <i>Canadian Journal of Chemistry</i> , 1991, 69, 1022-1027.	1.1	7
47	The molecular structure of (allyl)bis(methylcyclopentadienyl)niobium(III). <i>Polyhedron</i> , 1991, 10, 1075-1078.	2.2	7
48	Passive Wireless Detection of Corrosive Salts in Concrete Using Wire-Based Triggers. <i>Journal of Materials in Civil Engineering</i> , 2014, 26, 918-922.	2.9	6
49	Direct conversion of a nanometric suspension of molybdenum trioxide into nanometric lead molybdate. <i>CrystEngComm</i> , 2014, 16, 2869.	2.6	6
50	Synthesis, X-ray crystal structure, spectroscopic characterization, and thermal chemistry precursor for nano-crystalline zincite. <i>Main Group Chemistry</i> , 2008, 7, 65-81.	0.8	4
51	Green Process for Preparation of Nickel Hydroxide Films and Membranes. <i>Journal of Materials Engineering and Performance</i> , 2020, 29, 5602-5608.	2.5	4
52	Cycloaddition Reactions of (NSCl) ₃ with Organic Nitriles. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 1989, 41, 439-447.	1.6	3
53	Sorption of lead from aqueous solutions by a commercially available tungsten trioxide nanopowder. <i>RSC Advances</i> , 2015, 5, 68991-68997.	3.6	3
54	Mass-Transfer Coefficient as an Indicator of Resin Performance: Impacts of Film-Forming Amines and Storage Time on Condensate Polishing Ion-Exchange Resins. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 10601-10608.	3.7	3

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55	Reduction and Immobilization of Chromate Using Nanometric Pyrite. <i>Journal of Materials Engineering and Performance</i> , 2020, 29, 5557-5563.	2.5	3
56	Reductive Dechlorination of Chloromethanes Using Tungsten and Molybdenum Hydrogen Bronzes or Sodium Hypophosphite. <i>ACS Symposium Series</i> , 2002, , 154-164.	0.5	2
57	Iron-rich Oklahoma clays as a natural source of chromium in monitoring wells. <i>Journal of Environmental Monitoring</i> , 2011, 13, 3380.	2.1	2
58	Sodium Dithionite Purity and Decomposition Products in Solid Samples Spanning 50 Years. Phosphorus, Sulfur and Silicon and the Related Elements, 2015, 190, 158-169.	1.6	2
59	The preparation and chemical reaction kinetics of tungsten bronze thin films and nitrobenzene with and without a catalyst. <i>Surface Science</i> , 2016, 648, 345-351.	1.9	2
60	Experimental and Computation Studies of the Reaction of Hydrogen Peroxide and Methyl Hydroperoxide on Molybdenum Hydrogen Bronze Surfaces. <i>Topics in Catalysis</i> , 2018, 61, 1183-1192.	2.8	2
61	Liquid Metal Carboxylates as Precursors for Aluminum-Containing Ceramics. <i>Comments on Inorganic Chemistry</i> , 1998, 20, 83-99.	5.2	1
62	Improved Method for Dehydrating Secondary Alcohols Using Inorganic Sulfates Supported on Silica in Refluxing Octane. <i>Industrial & Engineering Chemistry Research</i> , 2002, 41, 2611-2616.	3.7	1
63	Follow-up study on the effects on well chemistry from biological and chemical remediation of chlorinated solvents. <i>Journal of Environmental Monitoring</i> , 2011, 13, 2521.	2.1	1
64	Discovery of Unprecedented Ion-exchange Behavior of Nanometric Scheelite Prepared from Single-source Precursors. <i>ChemistrySelect</i> , 2016, 1, 3685-3692.	1.5	1
65	Reduction of chromate by molybdenum hydrogen bronze. <i>Canadian Journal of Chemistry</i> , 2016, 94, 401-405.	1.1	1
66	Methods for the reaction of alkenes with activated tungstic acid. <i>Heliyon</i> , 2019, 5, e02780.	3.2	1
67	Superior Monitoring of Chemical Exposure Using Nanoconfinement Technology. <i>Military Medicine</i> , 2021, 186, 795-800.	0.8	1
68	Synthesis of Zirconium Oxide at Low Temperature Using Zirconium Benzilate: An Experimental and Computational Study. <i>Science of Advanced Materials</i> , 2014, 6, 1438-1444.	0.7	1
69	Synthesis and structure of the norbornene adduct of 1,3,5,2,4,6-trithiatriazinium tetrachloroaluminate [C7H10.cntdot.S3N3][AlCl4] [Erratum to document cited in CA114(25):247242e]. <i>Inorganic Chemistry</i> , 1991, 30, 5052-5052.	4.0	0
70	Exceptional sorption behaviour of porous tungsten oxide for aqueous lead. <i>Environmental Science: Water Research and Technology</i> , 2017, 3, 429-432.	2.4	0