

Wallace O Parker Jr

List of Publications by Year in descending order

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51
papers

1,504
citations

304743

22
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315739

38
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docs citations

51
times ranked

1563
citing authors

#	ARTICLE	IF	CITATIONS
1	Layered structure of ERB-1 microporous borosilicate precursor and its intercalation properties towards polar molecules. <i>Microporous Materials</i> , 1995, 4, 221-230.	1.6	214
2	Stability of Ti in MFI and Beta structures: a comparative study. <i>Microporous and Mesoporous Materials</i> , 1999, 30, 137-144.	4.4	94
3	Middle distillates from hydrocracking of FT waxes: Composition, characteristics and emission properties. <i>Catalysis Today</i> , 2010, 149, 40-46.	4.4	80
4	Hierarchical Hybrid Organic-Inorganic Materials with Tunable Textural Properties Obtained Using Zeolitic-Layered Precursor. <i>Journal of the American Chemical Society</i> , 2014, 136, 2511-2519.	13.7	74
5	Hydrolysis of sodium-2-acrylamido-2-methylpropanesulfonate copolymers at elevated temperature in aqueous solution via ¹³ C n.m.r. spectroscopy. <i>Polymer</i> , 1993, 34, 4913-4918.	3.8	69
6	Spectroscopic studies of LaHY-FAU catalyst deactivation in the alkylation of isobutane with 1-butene. <i>Applied Catalysis A: General</i> , 1995, 124, 107-119.	4.3	65
7	Ionic diffusivity and conductivity of plasticized polymer electrolytes: PMFG-NMR and complex impedance studies. <i>Solid State Ionics</i> , 1995, 82, 179-192.	2.7	62
8	Ti Coordination in Titanium Silicalite-1. <i>Journal of the American Chemical Society</i> , 2006, 128, 1450-1451.	13.7	61
9	Infrared Fingerprint Engineering: A Molecular Design Approach to Long-Wave Infrared Transparency with Polymeric Materials. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 17656-17660.	13.8	57
10	Characterization of ¹³ I-alumina and borated alumina catalysts. <i>Applied Catalysis A: General</i> , 1999, 185, 137-152.	4.3	48
11	Comparative structural and ligand-exchange properties of organocobalt B12 models. Improved synthetic procedures for Costa models and the structures of two pyridine complexes with methyl and neopentyl ligands. <i>Inorganic Chemistry</i> , 1985, 24, 3908-3913.	4.0	45
12	Segmented Polyurethanes and Thermoplastic Elastomers from Elemental Sulfur with Enhanced Thermomechanical Properties and Flame Retardancy. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 22900-22907.	13.8	44
13	Crystalline hybrid organic-inorganic aluminosilicates. <i>Microporous and Mesoporous Materials</i> , 2008, 113, 252-260.	4.4	39
14	NMR studies of Costa-type organocobalt compounds. Structural characterization of several 1,5,6-trimethylbenzimidazole complexes. <i>Inorganic Chemistry</i> , 1988, 27, 2170-2180.	4.0	37
15	Chiral ionic liquids supported on natural sporopollenin microcapsules. <i>RSC Advances</i> , 2018, 8, 21174-21183.	3.6	35
16	A highly crystalline microporous hybrid organic-inorganic aluminosilicate resembling the AFI-type zeolite. <i>Chemical Communications</i> , 2012, 48, 7356.	4.1	33
17	Zeolite synthesis in the presence of azonia-spiro compounds as structure-directing agents. <i>Microporous and Mesoporous Materials</i> , 1998, 24, 199-211.	4.4	32
18	Structural characterization of as-synthesized B- and Ti-containing MFI-type molecular sieves. <i>Microporous and Mesoporous Materials</i> , 2000, 35-36, 387-403.	4.4	30

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19	Cross-Link Density of a Dispersed Rubber Measured by ¹²⁹ Xe Chemical Shift. <i>Macromolecules</i> , 2007, 40, 5787-5790.	4.8	26
20	Ethane-silica hybrid material with ordered hexagonal mesoporous structure. <i>Microporous and Mesoporous Materials</i> , 2006, 87, 185-191.	4.4	25
21	Structures, NMR spectra, and ligand-exchange properties of Costa-type organocobalt B12 models with N-donor ligands. <i>Inorganic Chemistry</i> , 1986, 25, 3489-3497.	4.0	23
22	Study of micellar solutions and microemulsions of an alkyl oligoglucoside via NMR spectroscopy. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 1993, 72, 275-284.	4.7	22
23	Structures, hydrogen NMR spectra, and ligand-exchange properties of Costa-type organocobalt B12 models with P-donor ligands. <i>Inorganic Chemistry</i> , 1986, 25, 1303-1309.	4.0	21
24	Unexpected Destructive Dealumination of Zeolite Beta by Silylation. <i>Journal of Physical Chemistry C</i> , 2010, 114, 8459-8468.	3.1	20
25	Synthesis and characterization of borosilicates with the EUO framework topology. <i>Microporous and Mesoporous Materials</i> , 2001, 46, 191-201.	4.4	19
26	Homogeneous and heterogeneous cyclopentadienyl-arene titanium catalysts for selective ethylene trimerization to 1-hexene. <i>Journal of Organometallic Chemistry</i> , 2015, 777, 57-66.	1.8	18
27	Electrochemical synthesis of Costa-type cobalt complexes. <i>Organometallics</i> , 1989, 8, 2377-2381.	2.3	17
28	Interaction of phosphorus trichloride with zeolites. <i>Zeolites</i> , 1996, 16, 142-148.	0.5	17
29	Aluminum in mesoporous silica-alumina. <i>Microporous and Mesoporous Materials</i> , 2012, 158, 235-240.	4.4	17
30	NMR Spectroscopy Applied to Zeolite Catalysis: Progress and Prospects. <i>Comments on Inorganic Chemistry</i> , 2000, 22, 31-73.	5.2	16
31	A comprehensive two-dimensional gas chromatography coupled with quadrupole mass spectrometry approach for identification of C10 derivatives from decalin. <i>Journal of Chromatography A</i> , 2009, 1216, 2891-2899.	3.7	16
32	Functional, Redox-Responsive Poly(phenylene sulfide)-Based Gels. <i>Macromolecules</i> , 2019, 52, 8256-8265.	4.8	13
33	Infrared Fingerprint Engineering: A Molecular Design Approach to Long-Wave Infrared Transparency with Polymeric Materials. <i>Angewandte Chemie</i> , 2019, 131, 17820-17824.	2.0	12
34	Electrochemical behavior of -costa-type™ organocobalt coenzyme B12 models. <i>Inorganica Chimica Acta</i> , 1990, 168, 127-138.	2.4	11
35	On the thermal behaviour of the crystalline hybrid organic-inorganic aluminosilicate ECS-3. <i>Microporous and Mesoporous Materials</i> , 2013, 172, 200-205.	4.4	10
36	Flexible Structure of a Thermally Stable Hybrid Aluminosilicate Built with Only the Three-Ring Unit. <i>Journal of Physical Chemistry C</i> , 2014, 118, 7458-7467.	3.1	10

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37	The principal components of synthetic vitamin B'12. <i>Inorganic Chemistry</i> , 1986, 25, 127-129.	4.0	7
38	Aluminum complexes in partially hydrolyzed aqueous AlCl ₃ solutions used to prepare pillared clay catalysts. <i>Applied Catalysis A: General</i> , 1995, 121, L7-L11.	4.3	7
39	Unusually long-lived cobalt(II) and cobalt(I) species identified during electrochemical reduction of neopentyl B12 costa-type models. <i>Organometallics</i> , 1988, 7, 1672-1674.	2.3	6
40	Acidic microemulsions of dodecane/ p-dodecylbenzenesulfonic acid/water/HCl part 2. structure by proton NMR self-diffusion and relaxation studies. <i>Colloids and Surfaces</i> , 1990, 48, 21-28.	0.9	6
41	Synthesis, characterization and crystal structure of EMS-2 “ a novel microporous stannosilicate. <i>Microporous and Mesoporous Materials</i> , 2007, 101, 43-49.	4.4	6
42	Incorporation of germanium and boron in zeolite chabazite. <i>Microporous and Mesoporous Materials</i> , 2013, 168, 164-170.	4.4	6
43	Synthesis and characterization of Si/Ga Eni Carbon Silicates. <i>Chinese Journal of Catalysis</i> , 2015, 36, 813-819.	14.0	6
44	Segmented Polyurethanes and Thermoplastic Elastomers from Elemental Sulfur with Enhanced Thermomechanical Properties and Flame Retardancy. <i>Angewandte Chemie</i> , 2021, 133, 23082.	2.0	6
45	Dynamic behaviour of azonia-spiro-alkanes within the MOR and MTW zeolite pore structures. <i>Journal of Molecular Catalysis A</i> , 2001, 166, 167-174.	4.8	5
46	Acidic microemulsions of dodecane/p-dodecyl-benzenesulfonic acid/water/mineral acid part 1. HLB acidity and phase behavior. <i>Colloids and Surfaces</i> , 1990, 48, 13-20.	0.9	4
47	Insights into Polymerization of Vegetable Oil: Oligomerization of Oleic Acid. <i>JAOCs, Journal of the American Oil Chemists' Society</i> , 2019, 96, 1181-1184.	1.9	4
48	In-Situ ¹³ C NMR studies of 1-butene reactions on acid catalysts without magic angle spinning. <i>Studies in Surface Science and Catalysis</i> , 1995, 94, 568-573.	1.5	3
49	Stable Pervanadyl Cation Encapsulated in Silica: Frivolous Vanadium in the H ₄ PVMo ₁₁ O ₄₀ Keggin. <i>Journal of Physical Chemistry C</i> , 2015, 119, 24003-24015.	3.1	3
50	On the crystal structure solution and characterization of ECS-2, a novel microporous hybrid organic-inorganic material. <i>Studies in Surface Science and Catalysis</i> , 2008, 174, 965-968.	1.5	2
51	Synthesis, characterization and adsorption capacities of microporous titanosilicate EMS-3. <i>Microporous and Mesoporous Materials</i> , 2006, 90, 153-161.	4.4	1