

Oleg N Antzutkin

List of Publications by Year in descending order

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citations

236912

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68
all docs

68
docs citations

68
times ranked

4040
citing authors

#	ARTICLE	IF	CITATIONS
1	A structural model for Alzheimer's β -amyloid fibrils based on experimental constraints from solid state NMR. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 16742-16747.	7.1	1,757
2	Supramolecular Structural Constraints on Alzheimer's β -Amyloid Fibrils from Electron Microscopy and Solid-State Nuclear Magnetic Resonance. Biochemistry, 2002, 41, 15436-15450.	2.5	270
3	Boron in Tribology: From Borates to Ionic Liquids. Tribology Letters, 2013, 51, 281-301.	2.6	152
4	Novel halogen-free chelated orthoborate phosphonium ionic liquids: synthesis and tribophysical properties. Physical Chemistry Chemical Physics, 2011, 13, 12865.	2.8	147
5	^{13}C and ^{15}N Chemical Shift Anisotropy of Ampicillin and Penicillin-V Studied by 2D-PASS and CP/MAS NMR. Journal of Magnetic Resonance, 1998, 135, 144-155.	2.1	106
6	^{31}P Nuclear Magnetic Resonance Study of the Adsorption of Phosphate and Phenyl Phosphates on $\beta\text{-Al}_2\text{O}_3$. Langmuir, 2002, 18, 1104-1111.	3.5	91
7	Exploiting the Synergy of Powder X-ray Diffraction and Solid-State NMR Spectroscopy in Structure Determination of Organic Molecular Solids. Journal of Physical Chemistry C, 2013, 117, 12258-12265.	3.1	81
8	Amyloidosis of Alzheimer's β peptides: solid-state nuclear magnetic resonance, electron paramagnetic resonance, transmission electron microscopy, scanning transmission electron microscopy and atomic force microscopy studies. Magnetic Resonance in Chemistry, 2004, 42, 231-246.	1.9	74
9	Probing Intermolecular Crystal Packing in β -Indomethacin by High-Resolution ^1H Solid-State NMR Spectroscopy. Crystal Growth and Design, 2011, 11, 3463-3471.	3.0	67
10	Halogen-free pyrrolidinium bis(mandelato)borate ionic liquids: some physicochemical properties and lubrication performance as additives to polyethylene glycol. RSC Advances, 2014, 4, 30617-30623.	3.6	59
11	Surface complexation modeling of inositol hexaphosphate sorption onto gibbsite. Journal of Colloid and Interface Science, 2015, 440, 282-291.	9.4	46
12	Natural Abundance ^{15}N and ^{13}C CP/MAS NMR of Dialkyldithiocarbamate Compounds with Ni(II) and Zn(II). Topics in Current Chemistry, 2005, 246, 271-337.	4.0	45
13	Hydrogen Bonding in Alzheimer's Amyloid β Fibrils Probed by ^{15}N ^{17}O REAPDOR Solid-State NMR Spectroscopy. Angewandte Chemie - International Edition, 2012, 51, 10289-10292.	13.8	41
14	Halogen-free chelated orthoborate ionic liquids and organic ionic plastic crystals. Journal of Materials Chemistry, 2012, 22, 6928.	6.7	38
15	Atomistic Insight into Tetraalkylphosphonium-Bis(oxalato)borate Ionic Liquid/Water Mixtures. I. Local Microscopic Structure. Journal of Physical Chemistry B, 2015, 119, 5251-5264.	2.6	38
16	Synthesis, Characterization, and Sorption Properties of Amorphous Titanium Phosphate and Silica-Modified Titanium Phosphates. Inorganic Chemistry, 2008, 47, 11351-11360.	4.0	36
17	Electro-responsivity of ionic liquid boundary layers in a polar solvent revealed by neutron reflectance. Journal of Chemical Physics, 2018, 148, 193806.	3.0	33
18	Plasticizing and crosslinking effects of borate additives on the structure and properties of poly(vinyl Tj ETQq0 0 0 r gBT /Overlock 10 Tf	3.6	31

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19	Novel Alkylborateâ€“Dithiocarbamate Lubricant Additives: Synthesis and Tribophysical Characterization. <i>Tribology Letters</i> , 2012, 45, 67-78.	2.6	30
20	Acceleration of diffusion in ethylammonium nitrate ionic liquid confined between parallel glass plates. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 25853-25858.	2.8	28
21	Colloidal Defect-Free Silicalite-1 Single Crystals: Preparation, Structure Characterization, Adsorption, and Separation Properties for Alcohol/Water Mixtures. <i>Langmuir</i> , 2015, 31, 8488-8494.	3.5	27
22	Atomistic Insight into Tetraalkylphosphonium Bis(oxalato)borate Ionic Liquid/Water Mixtures. 2. Volumetric and Dynamic Properties. <i>Journal of Physical Chemistry B</i> , 2016, 120, 7446-7455.	2.6	27
23	Extended study on the synthesis of amorphous titanium phosphates with tailored sorption properties. <i>Journal of Non-Crystalline Solids</i> , 2012, 358, 2943-2950.	3.1	26
24	NMR self-diffusion study of a phosphonium bis(mandelato)borate ionic liquid. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 9281.	2.8	25
25	Solvation structures of water in trihexyltetradecylphosphonium-orthoborate ionic liquids. <i>Journal of Chemical Physics</i> , 2016, 145, .	3.0	25
26	The effect of inositol hexaphosphate on cadmium sorption to gibbsite. <i>Journal of Colloid and Interface Science</i> , 2016, 474, 159-170.	9.4	25
27	Adsorption of Butanol and Water Vapors in Silicalite-1 Films with a Low Defect Density. <i>Langmuir</i> , 2016, 32, 11789-11798.	3.5	24
28	Self-diffusion of phosphonium Bis(Salicylato)Borate ionic liquid in pores of Vycor porous glass. <i>Microporous and Mesoporous Materials</i> , 2016, 230, 128-134.	4.4	23
29	Interfacial Behavior of Orthoborate Ionic Liquids at Inorganic Oxide Surfaces Probed by NMR, IR, and Raman Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2018, 122, 19687-19698.	3.1	23
30	Mild syntheses and surface characterization of amorphous $\text{TiO}(\text{OH})(\text{H}_2\text{PO}_4)\cdot\text{H}_2\text{O}$ ion-exchanger. <i>Materials Chemistry and Physics</i> , 2016, 183, 467-475.	4.0	22
31	Pharmaceutical Crystal Engineering Using Ionic Liquid Anionâ€“Solute Interactions. <i>Crystal Growth and Design</i> , 2017, 17, 1729-1734.	3.0	19
32	Structure and dynamics elucidation of ionic liquids using multidimensional Laplace NMR. <i>Chemical Communications</i> , 2017, 53, 11056-11059.	4.1	19
33	Magnetic field effects dynamics of ethylammonium nitrate ionic liquid confined between glass plates. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 6316-6320.	2.8	17
34	Transition anionic complex in trihexyl(tetradecyl)phosphonium-bis(oxalato)borate ionic liquid â€“ revisited. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 6190-6203.	2.8	17
35	Selfâ€“diffusion and interactions in mixtures of imidazolium bis(mandelato)borate ionic liquids with polyethylene glycol: ^1H NMR study. <i>Magnetic Resonance in Chemistry</i> , 2015, 53, 493-497.	1.9	16
36	Amyloid Hydrogen Bonding Polymorphism Evaluated by $^{15}\text{N}\{^{17}\text{O}\}$ REAPDOR Solid-State NMR and Ultra-High Resolution Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. <i>Biochemistry</i> , 2016, 55, 2065-2068.	2.5	16

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37	DFT calculations in the assignment of solid-state NMR and crystal structure elucidation of a lanthanum(III) complex with dithiocarbamate and phenanthroline. Dalton Transactions, 2016, 45, 19473-19484.	3.3	15
38	Sorption performances of $\text{TiO}(\text{OH})(\text{H}_2\text{PO}_4)_2 \cdot \text{H}_2\text{O}$ in synthetic and mine waters. RSC Advances, 2017, 7, 1989-2001.	3.6	15
39	Rapid carbene formation increases ion diffusivity in an imidazolium acetate ionic liquid confined between polar glass plates. Physical Chemistry Chemical Physics, 2019, 21, 22531-22538.	2.8	15
40	Supramolecular self-organisation and conformational isomerism of a binuclear $\text{O}_2\text{-dipropyl}$ dithiophosphate gold(I) complex, $[\text{Au}_2\{\text{S}_2\text{P}(\text{OC}_3\text{H}_7)_2\}_2]$: Synthesis, ^{13}C and ^{31}P CP/MAS NMR spectroscopy, single-crystal X-ray diffraction study and thermal behaviour. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2015, 149, 881-888.	3.9	13
41	Dynamic properties of imidazolium orthoborate ionic liquids mixed with polyethylene glycol studied by NMR diffusometry and impedance spectroscopy. Magnetic Resonance in Chemistry, 2018, 56, 113-119.	1.9	13
42	Structural insights into the polymorphism of bismuth(III) di-n-butylthiocarbamate by X-ray diffraction, solid-state ($^{13}\text{C}/^{15}\text{N}$) CP-MAS NMR and DFT calculations. Polyhedron, 2017, 129, 123-132.	2.2	11
43	Static magnetic field alters properties of confined alkylammonium nitrate ionic liquids. Journal of Molecular Liquids, 2018, 268, 49-54.	4.9	11
44	Effect of Cholesterol and Curcumin on Ordering of DMPC Bilayers. Applied Magnetic Resonance, 2019, 50, 511-520.	1.2	11
45	Revisiting syntheses of $\text{Ti}(\text{iv})/\text{H}_2\text{PO}_4^-/\text{HPO}_4^{2-}$ functional ion-exchangers, properties and features. New Journal of Chemistry, 2018, 42, 838-845.	2.8	9
46	Nonhalogenated Surface-Active Ionic Liquid as an Electrolyte for Supercapacitors. ACS Applied Energy Materials, 2021, 4, 7775-7785.	5.1	9
47	Polyacrylic Acid Modifies Local and Lateral Mobilities in Lipid Membranes. Journal of Dispersion Science and Technology, 2014, 35, 848-858.	2.4	8
48	Spatial Structures of $\text{PAP}(262 \leq \text{MW} \leq 270)$ and $\text{PAP}(274 \leq \text{MW} \leq 284)$, Two Selected Fragments of $\text{PAP}(248 \leq \text{MW} \leq 286)$, an Enhancer of HIV Infectivity. Applied Magnetic Resonance, 2015, 46, 757-769.	1.2	8
49	Effect of curcumin on lateral diffusion in lipid bilayers. Mendeleev Communications, 2016, 26, 109-110.	1.6	8
50	Experimental and First-Principles NMR Analysis of Pt(II) Complexes With $\text{O}_2\text{-Dialkyldithiophosphate}$ Ligands. Journal of Physical Chemistry A, 2016, 120, 8326-8338.	2.5	8
51	Effect of magnetic field on diffusion of ethylammonium nitrate-water mixtures confined between polar glass plates. Journal of Molecular Liquids, 2019, 274, 45-51.	4.9	8
52	Synthesis of titanium phosphates from unconventional solid precursor and their ion-exchange and electrochemical properties. Journal of Materials Science, 2021, 56, 9929-9950.	3.7	8
53	Structure Elucidation of an Yttrium Diethylthiocarbamate-Phenanthroline Complex by X-ray Crystallography, Solid-State NMR, and ab-initio Quantum Chemical Calculations. European Journal of Inorganic Chemistry, 2016, 2016, 3278-3291.	2.0	7
54	Self-diffusion of ethylammonium nitrate ionic liquid confined between modified polar glasses. Journal of Molecular Liquids, 2019, 284, 366-371.	4.9	7

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55	Self-diffusion in ionic liquids with nitrate anion: Effects of confinement between glass plates and static magnetic field. <i>Journal of Molecular Liquids</i> , 2020, 312, 113404.	4.9	7
56	Solid-state ¹³ C, ¹⁵ N and ²⁹ Si NMR characterization of block copolymers with CO ₂ capture properties. <i>Magnetic Resonance in Chemistry</i> , 2016, 54, 734-739.	1.9	6
57	Temperature dependence of ¹ H NMR chemical shifts and diffusivity of confined ethylammonium nitrate ionic liquid. <i>Magnetic Resonance Imaging</i> , 2020, 74, 84-89.	1.8	6
58	Structural characterisation of amyloid-like fibrils formed by an amyloidogenic peptide segment of β 2-lactoglobulin. <i>RSC Advances</i> , 2021, 11, 27868-27879.	3.6	6
59	Synthesis and structural characterisation of solid titanium(iv) phosphate materials by means of X-ray absorption and NMR spectroscopy. <i>Dalton Transactions</i> , 2022, 51, 8192-8207.	3.3	6
60	Understanding the Interaction of Boric Acid and CO ₂ with Ionic Liquids in Aqueous Medium by Multinuclear NMR Spectroscopy. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 552-560.	6.7	5
61	Bi(III) Complexes Containing Dithiocarbamate Ligands: Synthesis, Structure Elucidation by X-ray Diffraction, Solid-state ¹³ C/ ¹⁵ N NMR, and DFT Calculations. <i>ChemistrySelect</i> , 2020, 5, 8882-8891.	1.5	5
62	Diffusion of Ions in Phosphonium Orthoborate Ionic Liquids Studied by ¹ H and ¹¹ B Pulsed Field Gradient NMR. <i>Frontiers in Chemistry</i> , 2020, 8, 119.	3.6	4
63	Oriented Carbon Fiber Networks by Design from Renewables for Electrochemical Applications. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 12142-12154.	6.7	3
64	Dynamics of ethylammonium nitrate near PTFE surface. <i>Magnetic Resonance Imaging</i> , 2022, 85, 102-107.	1.8	2
65	Effect of rotating magnetic field on the diffusivity of ethylammonium nitrate ionic liquid confined between micrometer-spaced glass plates. <i>Journal of Molecular Liquids</i> , 2021, 323, 115008.	4.9	1
66	Diffusivity of ethylammonium nitrate protic ionic liquid confined in porous glasses. <i>Journal of Molecular Liquids</i> , 2022, 356, 118998.	4.9	0