

# Andrei V Filippov

## List of Publications by Year in descending order

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96  
papers

2,164  
citations

361413

20  
h-index

254184

43  
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98  
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98  
docs citations

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times ranked

2395  
citing authors

#	ARTICLE	IF	CITATIONS
1	Translational and reorientational dynamics of ionic liquid-based fluorine-free lithium-ion battery electrolytes. <i>Journal of Molecular Liquids</i> , 2022, 345, 117001.	4.9	3
2	Dynamic and molecular association in pre-micellar aqueous solutions of dicarboxylate amino acid-based surfactant as studied by $^1\text{H}$ NMR. <i>Magnetic Resonance in Chemistry</i> , 2022, 60, 359-368.	1.9	1
3	Dynamics of ethylammonium nitrate near PTFE surface. <i>Magnetic Resonance Imaging</i> , 2022, 85, 102-107.	1.8	2
4	Diffusivity of ethylammonium nitrate protic ionic liquid confined in porous glasses. <i>Journal of Molecular Liquids</i> , 2022, 356, 118998.	4.9	0
5	Molecular interactions of ionic liquids with $\text{SiO}_2$ surfaces determined from colloid probe atomic force microscopy. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 12808-12815.	2.8	3
6	Abnormal diffusion behavior and aggregation of oxyethylated alkylphenols in aqueous solutions near their cloud point. <i>Journal of Molecular Liquids</i> , 2022, 358, 119203.	4.9	0
7	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
8	Dynamic and structural properties, cloud point of mixed micelles of oxyethylated isononylphenols. <i>Journal of Dispersion Science and Technology</i> , 2021, 42, 278-285.	2.4	2
9	Self-Diffusion Coefficients, Aggregation Numbers and the Range of Existence of Spherical Micelles of Oxyethylated Alkylphenols. <i>Applied Magnetic Resonance</i> , 2021, 52, 607-617.	1.2	2
10	Study of the pre-micellar state in aqueous solutions of sodium dodecyl sulfate by nuclear magnetic resonance diffusion. <i>Magnetic Resonance in Chemistry</i> , 2021, 59, 1126-1133.	1.9	6
11	Ion Transport and Electrochemical Properties of Fluorine-Free Lithium-Ion Battery Electrolytes Derived from Biomass. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 7769-7780.	6.7	12
12	Unusual ion transport behaviour of ethylammonium nitrate mixed with lithium nitrate. <i>Journal of Molecular Liquids</i> , 2021, 340, 116841.	4.9	5
13	Structural characterisation of amyloid-like fibrils formed by an amyloidogenic peptide segment of $\beta$ -lactoglobulin. <i>RSC Advances</i> , 2021, 11, 27868-27879.	3.6	6
14	Understanding the Interaction of Boric Acid and $\text{CO}_2$ with Ionic Liquids in Aqueous Medium by Multinuclear NMR Spectroscopy. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 552-560.	6.7	5
15	Structural and Ion Dynamics in Fluorine-Free Oligoether Carboxylate Ionic Liquid-Based Electrolytes. <i>Journal of Physical Chemistry B</i> , 2020, 124, 9690-9700.	2.6	12
16	Temperature dependence of $^1\text{H}$ NMR chemical shifts and diffusivity of confined ethylammonium nitrate ionic liquid. <i>Magnetic Resonance Imaging</i> , 2020, 74, 84-89.	1.8	6
17	Effect of Aromaticity in Anion on the Cation-Anion Interactions and Ionic Mobility in Fluorine-Free Ionic Liquids. <i>Journal of Physical Chemistry B</i> , 2020, 124, 11962-11973.	2.6	12
18	Diffusion of Ions in Phosphonium Orthoborate Ionic Liquids Studied by $^1\text{H}$ and $^{11}\text{B}$ Pulsed Field Gradient NMR. <i>Frontiers in Chemistry</i> , 2020, 8, 119.	3.6	4

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19	NMR relaxation and self-diffusion in aqueous micellar gels of pluronic F-127. <i>Journal of Molecular Liquids</i> , 2020, 306, 112898.	4.9	20
20	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
21	Micelles of Oxyethylated Isononylphenols in Aqueous Solutions and Hydrophilic/Lipophilic Balance. <i>ACS Omega</i> , 2020, 5, 28224-28232.	3.5	7
22	Oxyethylated Isononylphenols in Carbon Tetrachloride. <i>Applied Magnetic Resonance</i> , 2019, 50, 1381-1389.	1.2	0
23	Reactivity of CO <sub>2</sub> with aqueous choline-based ionic liquids probed by solid-state NMR spectroscopy. <i>Journal of Molecular Liquids</i> , 2019, 286, 110918.	4.9	7
24	Self-diffusion of ethylammonium nitrate ionic liquid confined between modified polar glasses. <i>Journal of Molecular Liquids</i> , 2019, 284, 366-371.	4.9	7
25	Rapid carbene formation increases ion diffusivity in an imidazolium acetate ionic liquid confined between polar glass plates. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 22531-22538.	2.8	15
26	Peculiarities of NMR relaxation in micellar gels of Pluronic F-127. <i>Journal of Dispersion Science and Technology</i> , 2019, 40, 403-407.	2.4	1
27	Effect of Cholesterol and Curcumin on Ordering of DMPC Bilayers. <i>Applied Magnetic Resonance</i> , 2019, 50, 511-520.	1.2	11
28	Effect of magnetic field on diffusion of ethylammonium nitrate water mixtures confined between polar glass plates. <i>Journal of Molecular Liquids</i> , 2019, 274, 45-51.	4.9	8
29	CO <sub>2</sub> absorption and ion mobility in aqueous choline-based ionic liquids. <i>Journal of Molecular Liquids</i> , 2019, 276, 748-752.	4.9	12
30	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
31	The cloud point of aqueous solutions of ethoxylated monoalkylphenols in the individual state and in the presence of electrolytes. <i>Journal of Dispersion Science and Technology</i> , 2018, 39, 1442-1446.	2.4	6
32	Diffusivity of crude oils contained in macroporous medium: <sup>1</sup> H NMR study. <i>Mendeleev Communications</i> , 2018, 28, 222-224.	1.6	5
33	Dynamic properties of imidazolium orthoborate ionic liquids mixed with polyethylene glycol studied by NMR diffusometry and impedance spectroscopy. <i>Magnetic Resonance in Chemistry</i> , 2018, 56, 113-119.	1.9	13
34	Static magnetic field alters properties of confined alkylammonium nitrate ionic liquids. <i>Journal of Molecular Liquids</i> , 2018, 268, 49-54.	4.9	11
35	Ion dynamics in halogen-free phosphonium bis(salicylato)borate ionic liquid electrolytes for lithium-ion batteries. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 16721-16730.	2.8	27
36	Structure and dynamics elucidation of ionic liquids using multidimensional Laplace NMR. <i>Chemical Communications</i> , 2017, 53, 11056-11059.	4.1	19

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37	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
38	Transport and Association of Ions in Lithium Battery Electrolytes Based on Glycol Ether Mixed with Halogen-Free Orthoborate Ionic Liquid. <i>Scientific Reports</i> , 2017, 7, 16340.	3.3	31
39	High CO <sub>2</sub> absorption capacity by chemisorption at cations and anions in choline-based ionic liquids. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 31216-31226.	2.8	27
40	Effect of curcumin on lateral diffusion in lipid bilayers. <i>Mendeleev Communications</i> , 2016, 26, 109-110.	1.6	8
41	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
42	Amyloid Hydrogen Bonding Polymorphism Evaluated by <sup>15</sup> N{ <sup>17</sup> 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
43	Dynamic and structural properties of oxyethylated isononylphenols. <i>Mendeleev Communications</i> , 2016, 26, 355-357.	1.6	4
44	Insights into the effect of CO <sub>2</sub> absorption on the ionic mobility of ionic liquids. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 28617-28625.	2.8	20
45	Self-diffusion and interactions in mixtures of imidazolium bis(mandelato)borate ionic liquids with polyethylene glycol: <sup>1</sup> H NMR study. <i>Magnetic Resonance in Chemistry</i> , 2015, 53, 493-497.	1.9	16
46	Spatial Structures of PAP(262-270) and PAP(274-284), Two Selected Fragments of PAP(248-286), an Enhancer of HIV Infectivity. <i>Applied Magnetic Resonance</i> , 2015, 46, 757-769.	1.2	8
47	<sup>31</sup> P NMR Studies of Phospholipids. <i>Annual Reports on NMR Spectroscopy</i> , 2015, 85, 27-92.	1.5	10
48	Spatial structure of fibrinopeptide B in water solution with DPC micelles by NMR spectroscopy. <i>Journal of Molecular Structure</i> , 2015, 1102, 91-94.	3.6	9
49	High-resolution NMR structure of the antimicrobial peptide protegrin-2 in the presence of DPC micelles. <i>Journal of Biomolecular NMR</i> , 2015, 61, 227-234.	2.8	24
50	The effect of the cation alkyl chain length on density and diffusion in dialkylpyrrolidinium bis(mandelato)borate ionic liquids. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 26798-26805.	2.8	27
51	A Hexameric Peptide Barrel as Building Block of Amyloid <sup>2</sup> Protofibrils. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 12756-12760.	13.8	128
52	Polyacrylic Acid Modifies Local and Lateral Mobilities in Lipid Membranes. <i>Journal of Dispersion Science and Technology</i> , 2014, 35, 848-858.	2.4	8
53	Halogen-free pyrrolidinium bis(mandelato)borate ionic liquids: some physicochemical properties and lubrication performance as additives to polyethylene glycol. <i>RSC Advances</i> , 2014, 4, 30617-30623.	3.6	59
54	Micelles and Aggregates of Oxyethylated Isononylphenols and Their Extraction Properties near Cloud Point. <i>Journal of Physical Chemistry B</i> , 2014, 118, 5480-5487.	2.6	16

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55	Molecular self-diffusion and micellar structure in the aqueous solutions of AF9-10 ethoxylated isononylphenol near a cloud point. <i>Mendeleev Communications</i> , 2014, 24, 266-268.	1.6	5
56	Effect of Curcumin on Lateral Diffusion of Phosphatidylcholines in Saturated and Unsaturated Bilayers. <i>Langmuir</i> , 2014, 30, 10686-10690.	3.5	9
57	NMR structure of the Arctic mutation of the Alzheimer's A $\beta$ (1-40) peptide docked to SDS micelles. <i>Journal of Molecular Structure</i> , 2014, 1076, 518-523.	3.6	17
58	Spatial structure of oligopeptide PAP(248-261), the N-terminal fragment of the HIV enhancer prostatic acid phosphatase peptide PAP(248-286), in aqueous and SDS micelle solutions. <i>Journal of Molecular Structure</i> , 2014, 1070, 38-42.	3.6	14
59	A Hexameric Peptide Barrel as Building Block of Amyloid $\beta$ Protofibrils. <i>Angewandte Chemie</i> , 2014, 126, 12970-12974.	2.0	8
60	Influence of Alzheimer's $\beta$ -amyloid peptide on the lateral diffusion of lipids in raft-forming bilayers. <i>Mendeleev Communications</i> , 2013, 23, 316-318.	1.6	3
61	Solution structures of Alzheimer's amyloid A $\beta$ 13-23 peptide: NMR studies in solution and in SDS. <i>Journal of Molecular Structure</i> , 2013, 1049, 436-440.	3.6	21
62	Use of a combination of the RDC method and NOESY NMR spectroscopy to determine the structure of Alzheimer's amyloid A $\beta$ 10-35 peptide in solution and in SDS micelles. <i>European Biophysics Journal</i> , 2013, 42, 803-810.	2.2	15
63	Interaction of polyacrylic acid with lipid bilayers: effect of polymer mass. <i>Magnetic Resonance in Chemistry</i> , 2013, 51, 750-755.	1.9	6
64	Disordering of phospholipid headgroups induced by a small amount of polyethylene oxide. <i>Magnetic Resonance in Chemistry</i> , 2013, 51, 1-3.	1.9	3
65	Interaction of prostatic acid phosphatase fragments with a lipid bilayer as studied by NMR spectroscopy. <i>Mendeleev Communications</i> , 2013, 23, 313-315.	1.6	7
66	NMR self-diffusion study of a phosphonium bis(mandelato)borate ionic liquid. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 9281.	2.8	25
67	Micelle structure and molecular self-diffusion in isononylphenol ethoxylate-water systems. <i>Magnetic Resonance in Chemistry</i> , 2013, 51, 424-430.	1.9	10
68	Spatial structure of heptapeptide Glu-Ile-Leu-Asn-His-Met-Lys, a fragment of the HIV enhancer prostatic acid phosphatase, in aqueous and SDS micelle solutions. <i>Journal of Molecular Structure</i> , 2013, 1033, 59-66.	3.6	12
69	Spatial structure of heptapeptide A $\beta$ <sub>16-22</sub> (beta-amyloid A $\beta$ <sub>1-40</sub> active fragment) in solution and in complex with a biological membrane model. <i>Magnetic Resonance in Chemistry</i> , 2012, 50, 784-792.	1.9	8
70	Aggregation and fibril morphology of the Arctic mutation of Alzheimer's A $\beta$ peptide by CD, TEM, STEM and in situ AFM. <i>Journal of Structural Biology</i> , 2012, 180, 174-189.	2.8	57
71	Hydrogen Bonding in Alzheimer's Amyloid $\beta$ Fibrils Probed by <sup>15</sup> N{ <sup>17</sup> O} REAPDOR Solid-State NMR Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 10289-10292.	13.8	41
72	Phase Transition, Ordering and Lateral Diffusion in Phospholipid Bilayers in the Presence of Poly(Ethylene Oxide). <i>Mendeleev Communications</i> , 2012, 22, 250-251.	1.6	7

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73	Dynamic properties of water in silicalite-1 powder. <i>Magnetic Resonance Imaging</i> , 2012, 30, 1022-1031.	1.8	8
74	Self-diffusion in a hyaluronic acid-albumin-water system as studied by NMR. <i>Magnetic Resonance in Chemistry</i> , 2012, 50, 114-119.	1.9	34
75	Lateral diffusion in equimolar mixtures of natural sphingomyelins with dioleoylphosphatidylcholine. <i>Magnetic Resonance Imaging</i> , 2012, 30, 413-421.	1.8	13
76	Interaction of a Poly(acrylic acid) Oligomer with Dimyristoylphosphatidylcholine Bilayers. <i>Langmuir</i> , 2011, 27, 3754-3761.	3.5	14
77	Peculiarities of lateral diffusion of lipids in three-component bilayers. <i>Russian Journal of Physical Chemistry A</i> , 2011, 85, 513-518.	0.6	3
78	Mobility of molecules and diagram of the state of a glyceryl monooleate-water system according to NMR data. <i>Russian Journal of Physical Chemistry A</i> , 2011, 85, 573-583.	0.6	1
79	Spatial Structure of the Decapeptide Val-Ile-Lys-Lys-Ser-Thr-Ala-Leu-Leu-Gly in Water and in a Complex with Sodium Dodecyl Sulfate Micelles. <i>Applied Magnetic Resonance</i> , 2011, 41, 267-282.	1.2	12
80	Aggregation of amyloid A <sub>1-40</sub> peptide in perdeuterated 2,2,2-trifluoroethanol caused by ultrasound sonication. <i>Magnetic Resonance in Chemistry</i> , 2010, 48, 427-434.	1.9	12
81	Lateral diffusion in sphingomyelin bilayers. <i>Magnetic Resonance in Chemistry</i> , 2010, 48, 945-950.	1.9	10
82	Effect of NaCl and CaCl <sub>2</sub> on the lateral diffusion of zwitterionic and anionic lipids in bilayers. <i>Chemistry and Physics of Lipids</i> , 2009, 159, 81-87.	3.2	53
83	Effect of Polyacrylic Acid on Phase State of Lipids and Diffusion in Lipid-Water System. <i>Applied Magnetic Resonance</i> , 2008, 33, 311-322.	1.2	6
84	Effect of freezing on amyloid peptide aggregation and self-diffusion in an aqueous solution. <i>Colloid Journal</i> , 2008, 70, 501-506.	1.3	10
85	Temperature dependence of water self-diffusion through lipid bilayers assessed by NMR. <i>Biophysics (Russian Federation)</i> , 2008, 53, 147-152.	0.7	9
86	Domain Formation in Model Membranes Studied by Pulsed-Field Gradient-NMR: The Role of Lipid Polyunsaturation. <i>Biophysical Journal</i> , 2007, 93, 3182-3190.	0.5	72
87	Lateral diffusion of saturated phosphatidylcholines in cholesterol-containing bilayers. <i>Biophysics (Russian Federation)</i> , 2007, 52, 307-314.	0.7	7
88	Water state and diffusion through lipid bilayers: Effect of hydration degree. <i>Biophysics (Russian Federation)</i> , 2007, 52, 307-314.	0.7	10
89	Sphingomyelin Structure Influences the Lateral Diffusion and Raft Formation in Lipid Bilayers. <i>Biophysical Journal</i> , 2006, 90, 2086-2092.	0.5	98
90	Lipid lateral diffusion in bilayers with phosphatidylcholine, sphingomyelin and cholesterol. <i>Chemistry and Physics of Lipids</i> , 2006, 141, 179-184.	3.2	104

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91	Diffusion and aggregation of Alzheimer's A $\beta$ 1-40 peptide in aqueous trifluoroethanol solutions as studied by pulsed field gradient NMR. <i>Applied Magnetic Resonance</i> , 2005, 29, 439-449.	1.2	4
92	Lipid Lateral Diffusion in Ordered and Disordered Phases in Raft Mixtures. <i>Biophysical Journal</i> , 2004, 86, 891-896.	0.5	136
93	Influence of Cholesterol and Water Content on Phospholipid Lateral Diffusion in Bilayers. <i>Langmuir</i> , 2003, 19, 6397-6400.	3.5	146
94	The Effect of Cholesterol on the Lateral Diffusion of Phospholipids in Oriented Bilayers. <i>Biophysical Journal</i> , 2003, 84, 3079-3086.	0.5	397
95	Crystallisation of crystallizable and amorphous polymer mixtures and peculiarities of their structure: an NMR study. <i>Magnetic Resonance Imaging</i> , 1998, 16, 629-630.	1.8	2
96	Crystallization of poly(ethylene oxide) confined in pores of active carbon. <i>Magnetic Resonance Imaging</i> , 1998, 16, 631-633.	1.8	3