

Sergei Glavatskih

List of Publications by Year in descending order

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54
papers

1,602
citations

236833

25
h-index

315616

38
g-index

55
all docs

55
docs citations

55
times ranked

1088
citing authors

#	ARTICLE	IF	CITATIONS
1	Wear in wind turbine pitch bearings – A comparative design study. <i>Wind Energy</i> , 2022, 25, 700-718.	1.9	6
2	Greases for electric vehicle motors: thickener effect and energy saving potential. <i>Tribology International</i> , 2022, 167, 107400.	3.0	11
3	Transition anionic complex in trihexyl(tetradecyl)phosphonium-bis(oxalato)borate ionic liquid – revisited. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 6190-6203.	1.3	17
4	Micro- to Nano- and from Surface to Bulk: Influence of Halogen-Free Ionic Liquid Architecture and Dissociation on Green Oil Lubricity. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 13606-13617.	3.2	12
5	Boundary lubricity of phosphonium bisoxalatoborate ionic liquids. <i>Tribology International</i> , 2021, 161, 107075.	3.0	11
6	On the critical amplitude in oscillating rolling element bearings. <i>Tribology International</i> , 2021, 163, 107154.	3.0	9
7	The effect of anion architecture on the lubrication chemistry of phosphonium orthoborate ionic liquids. <i>Scientific Reports</i> , 2021, 11, 24021.	1.6	13
8	Tribological Performance of Non-halogenated Phosphonium Ionic Liquids as Additives to Polypropylene and Lithium-Complex Greases. <i>Tribology Letters</i> , 2020, 68, 1.	1.2	16
9	Electroresponsive structuring and friction of a non-halogenated ionic liquid in a polar solvent: effect of concentration. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 19162-19171.	1.3	16
10	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.	1.8	4
11	Interfacial structuring of non-halogenated imidazolium ionic liquids at charged surfaces: effect of alkyl chain length. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 8450-8460.	1.3	41
12	Effect of water on the electroresponsive structuring and friction in dilute and concentrated ionic liquid lubricant mixtures. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 28191-28201.	1.3	8
13	Electro-Responsive Surface Composition and Kinetics of an Ionic Liquid in a Polar Oil. <i>Langmuir</i> , 2019, 35, 15692-15700.	1.6	25
14	Non-halogenated Ionic Liquid Dramatically Enhances Tribological Performance of Biodegradable Oils. <i>Frontiers in Chemistry</i> , 2019, 7, 98.	1.8	21
15	Electro-responsivity of ionic liquid boundary layers in a polar solvent revealed by neutron reflectance. <i>Journal of Chemical Physics</i> , 2018, 148, 193806.	1.2	33
16	Rheology of phosphonium ionic liquids: a molecular dynamics and experimental study. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 10193-10203.	1.3	19
17	Tribology of polypropylene and Li-complex greases with ZDDP and MoDTC additives. <i>Tribology International</i> , 2018, 118, 189-195.	3.0	41
18	Anomalous Interfacial Structuring of a Non-Halogenated Ionic Liquid: Effect of Substrate and Temperature. <i>Colloids and Interfaces</i> , 2018, 2, 60.	0.9	11

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19	Structure and dynamics elucidation of ionic liquids using multidimensional Laplace NMR. <i>Chemical Communications</i> , 2017, 53, 11056-11059.	2.2	19
20	Acceleration of diffusion in ethylammonium nitrate ionic liquid confined between parallel glass plates. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 25853-25858.	1.3	28
21	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.	1.2	27
22	Solvation structures of water in trihexyltetradecylphosphonium-orthoborate ionic liquids. <i>Journal of Chemical Physics</i> , 2016, 145, .	1.2	25
23	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.	2.2	23
24	Influence of electric potential on the apparent viscosity of an ionic liquid: facts and artifacts. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 26609-26615.	1.3	2
25	Dynamic characteristics of compliant journal bearings considering thermal effects. <i>Tribology International</i> , 2016, 94, 288-305.	3.0	24
26	Self-diffusion and interactions in mixtures of imidazolium bis(mandelato)borate ionic liquids with polyethylene glycol: ¹ H NMR study. <i>Magnetic Resonance in Chemistry</i> , 2015, 53, 493-497.	1.1	16
27	Atomistic Insight into Tetraalkylphosphonium-Bis(oxalato)borate Ionic Liquid/Water Mixtures. I. Local Microscopic Structure. <i>Journal of Physical Chemistry B</i> , 2015, 119, 5251-5264.	1.2	38
28	Weighing the surface charge of an ionic liquid. <i>Nanoscale</i> , 2015, 7, 16039-16045.	2.8	28
29	Nonlinear dynamic behaviour of vertical and horizontal rotors in compliant liner tilting pad journal bearings: Some design considerations. <i>Tribology International</i> , 2015, 82, 142-152.	3.0	42
30	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.	1.3	27
31	Steady state and dynamic characteristics for guide bearings of a hydro-electric unit. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , 2014, 228, 836-848.	1.0	3
32	Effect of shaft roughness and pressure on friction of polymer bearings in water. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , 2014, 228, 371-381.	1.0	17
33	Extending performance limits of turbine oils. <i>Tribology International</i> , 2014, 69, 52-60.	3.0	5
34	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.	1.7	59
35	Atomistic Insight into Orthoborate-Based Ionic Liquids: Force Field Development and Evaluation. <i>Journal of Physical Chemistry B</i> , 2014, 118, 8711-8723.	1.2	57
36	Dynamic characteristics of polymer faced tilting pad journal bearings. <i>Tribology International</i> , 2014, 74, 20-27.	3.0	12

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37	A comparative linear and nonlinear dynamic analysis of compliant cylindrical journal bearings. <i>Mechanism and Machine Theory</i> , 2013, 64, 80-92.	2.7	39
38	Boron in Tribology: From Borates to Ionic Liquids. <i>Tribology Letters</i> , 2013, 51, 281-301.	1.2	152
39	NMR self-diffusion study of a phosphonium bis(mandelato)borate ionic liquid. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 9281.	1.3	25
40	Influence of pad compliance on nonlinear dynamic characteristics of tilting pad journal bearings. <i>Tribology International</i> , 2013, 57, 46-53.	3.0	24
41	Halogen-free chelated orthoborate ionic liquids and organic ionic plastic crystals. <i>Journal of Materials Chemistry</i> , 2012, 22, 6928.	6.7	38
42	Journal Vibration: Influence of Compliant Bearing Design. , 2012, , .		0
43	Novel Alkylborateâ€“Dithiocarbamate Lubricant Additives: Synthesis and Tribophysical Characterization. <i>Tribology Letters</i> , 2012, 45, 67-78.	1.2	30
44	Novel halogen-free chelated orthoborateâ€“phosphonium ionic liquids: synthesis and tribophysical properties. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 12865.	1.3	147
45	Interfacial Antiwear and Physicochemical Properties of Alkylborate-dithiophosphates. <i>ACS Applied Materials & Interfaces</i> , 2011, 3, 956-968.	4.0	48
46	THD analysis of compliant journal bearings considering liner deformation. <i>Tribology International</i> , 2011, 44, 1629-1641.	3.0	36
47	SPECIAL ISSUE ON NORDTRIB: THE NORDIC SYMPOSIUM ON TRIBOLOGY 2010. Proceedings of the Institution of Mechanical Engineers, Part J: <i>Journal of Engineering Tribology</i> , 2011, 225, 563-564.	1.0	0
48	3D thermohydrodynamic analysis of a textured slider. <i>Tribology International</i> , 2009, 42, 1487-1495.	3.0	29
49	Synthesis, Physicochemical, and Tribological Characterization of $\text{S-Di-n-octoxyboron-O}$, $\text{O}^2\text{-di-n-octyl-dithiophosphate}$. <i>ACS Applied Materials & Interfaces</i> , 2009, 1, 2835-2842.	4.0	39
50	Tribotronicsâ€“Towards active tribology. <i>Tribology International</i> , 2008, 41, 934-939.	3.0	54
51	Pressure Buildup Mechanism in a Textured Inlet of a Hydrodynamic Contact. <i>Journal of Tribology</i> , 2008, 130, .	1.0	62
52	Rough surface flow factors in full film lubrication based on a homogenization technique. <i>Tribology International</i> , 2007, 40, 1025-1034.	3.0	35
53	A cavitation algorithm for arbitrary lubricant compressibility. <i>Tribology International</i> , 2007, 40, 1294-1300.	3.0	55
54	Steady State Performance Characteristics of a Tilting Pad Thrust Bearing. <i>Journal of Tribology</i> , 2001, 123, 608-615.	1.0	23