Svyatoslav Kondrat

List of Publications by Year
in descending order

59 papers	2,555 citations	236925 25 h-index	189892 50 g-index
64 all docs	64 docs citations	64 times ranked	2490 citing authors

#	Article	IF	Citations
1	Symmetrizing cathode-anode response to speed up charging of nanoporous supercapacitors. Green Energy and Environment, 2022, 7, 95-104.	8.7	10
2	Ionic liquids in conducting nanoslits: how important is the range of the screened electrostatic interactions?. Journal of Physics Condensed Matter, 2022, 34, 26LT01.	1.8	4
3	Structure, dynamics and conductivities of ionic liquid-alcohol mixtures. Journal of Molecular Liquids, 2022, 355, 118955.	4.9	9
4	Enzyme co-localisation: Mechanisms and benefits. Current Research in Chemical Biology, 2022, , 100031.	2.9	8
5	How macromolecules softness affects diffusion under crowding. Soft Matter, 2022, 18, 5366-5370.	2.7	8
6	Controlled deposition of nanoparticles with critical Casimir forces. Nanoscale Horizons, 2021, 6, 751-758.	8.0	8
7	Conformation-changing enzymes and macromolecular crowding. Physical Chemistry Chemical Physics, 2021, 23, 9065-9069.	2.8	17
8	Superionic Liquids in Conducting Nanoslits: Insights from Theory and Simulations. Journal of Physical Chemistry C, 2021, 125, 4968-4976.	3.1	11
9	Capillary Ionization and Jumps of Capacitive Energy Stored in Mesopores. Journal of Physical Chemistry C, 2021, 125, 10243-10249.	3.1	4
10	Debye <i>vs</i>. Casimir: controlling the structure of charged nanoparticles deposited on a substrate. Nanoscale, 2021, 13, 6475-6488.	5.6	6
11	Capacitive energy storage in single-file pores: Exactly solvable models and simulations. Journal of Chemical Physics, 2021, 155, 174112.	3.0	8
12	Ionic screening in bulk and under confinement. Journal of Chemical Physics, 2021, 155, 204501.	3.0	19
13	How to speed up ion transport in nanopores. Nature Communications, 2020, 11, 6085.	12.8	57
14	Bulk ionic screening lengths from extremely large-scale molecular dynamics simulations. Chemical Communications, 2020, 56, 15635-15638.	4.1	30
15	Macromolecular Crowding: How Shape and Interactions Affect Diffusion. Journal of Physical Chemistry B, 2020, 124, 7537-7543.	2.6	45
16	Bridging transitions and capillary forces for colloids in a slit. Journal of Chemical Physics, 2020, 153, 014901.	3.0	4
17	Random-Alloy Model for the Conductivity of Ionic Liquidâ€“Solvent Mixtures. Journal of Physical Chemistry C, 2020, 124, 11754-11759.	3.1	12
18	Effect of proximity to ionic liquid-solvent demixing on electrical double layers. Journal of Molecular Liquids, 2019, 294, 111368.	4.9	12

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19	Connections Matter: On the Importance of Pore Percolation for Nanoporous Supercapacitors. ACS Applied Energy Materials, 2019, 2, 5386-5390.	5.1	29
20	Feeling Your Neighbors across the Walls: How Interpore Ionic Interactions Affect Capacitive Energy Storage. Journal of Physical Chemistry Letters, 2019, 10, 4523-4527.	4.6	14
21	Brownian dynamics assessment of enhanced diffusion exhibited by â€˜fluctuating-dumbbell enzymesâ€™. Physical Chemistry Chemical Physics, 2019, 21, 18811-18815.	2.8	16
22	Can enzyme proximity accelerate cascade reactions?. Scientific Reports, 2019, 9, 455.	3.3	57
23	Hydrodynamic Properties of Polymers Screening the Electrokinetic Flow: Insights from a Computational Study. Polymers, 2019, 11, 1038.	4.5	4
24	Superionic liquids in conducting nanoslits: A variety of phase transitions and ensuing charging behavior. Journal of Chemical Physics, 2019, 151, 184105.	3.0	9
25	Electrical Double Layers Close to Ionic Liquidâ€“Solvent Demixing. Journal of Physical Chemistry C, 2019, 123, 1596-1601.	3.1	26
26	Nonadditive interactions and phase transitions in strongly confined colloidal systems. Soft Matter, 2018, 14, 586-596.	2.7	8
27	Probing interface localizationâ€“delocalization transitions by colloids. Journal of Physics Condensed Matter, 2018, 30, 414002.	1.8	3
28	Charge Me Slowly, I Am in a Hurry: Optimizing Chargeâ€“Discharge Cycles in Nanoporous Supercapacitors. ACS Nano, 2018, 12, 9733-9741.	14.6	80
29	The effect of finite pore length on ion structure and charging. Journal of Chemical Physics, 2017, 147, 104708.	3.0	29
30	Does metabolite channeling accelerate enzyme-catalyzed cascade reactions?. PLoS ONE, 2017, 12, e0172673.	2.5	41
31	Charging Ultrananoporous Electrodes with Size-Asymmetric Ions Assisted by Apolar Solvent. Journal of Physical Chemistry C, 2016, 120, 16042-16050.	3.1	32
32	Two tributaries of the electrical double layer. Journal of Physics Condensed Matter, 2016, 28, 460301.	1.8	1
33	Phase behaviour and structure of a superionic liquid in nonpolarized nanoconfinement. Journal of Physics Condensed Matter, 2016, 28, 464007.	1.8	18
34	Capacitance-Power-Hysteresis Trilemma in Nanoporous Supercapacitors. Physical Review X, 2016, 6, .	8.9	21
35	Discrete-continuous reaction-diffusion model with mobile point-like sources and sinks. European Physical Journal E, 2016, 39, 11.	1.6	8
36	Pressing a spring: what does it take to maximize the energy storage in nanoporous supercapacitors?. Nanoscale Horizons, 2016, 1, 45-52.	8.0	105

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37	The effect of composition on diffusion of macromolecules in a crowded environment. Physical Biology, 2015, 12, 046003.	1.8	32
38	Dynamics of Ion Transport in Ionic Liquids. Physical Review Letters, 2015, 115, 106101.	7.8	54
39	Single-File Charge Storage in Conducting Nanopores. Physical Review Letters, 2014, 113, 048701.	7.8	60
40	Charging dynamics of supercapacitors with narrow cylindrical nanopores. Nanotechnology, 2014, 25, 315401.	2.6	41
41	Accelerating charging dynamics in subnanometre pores. Nature Materials, 2014, 13, 387-393.	27.5	303
42	Critical Casimir interactions around the consolute point of a binary solvent. Soft Matter, 2014, 10, 5510-5522.	2.7	30
43	The effect of dielectric permittivity on the capacitance of nanoporous electrodes. Electrochemistry Communications, 2013, 34, 348-350.	4.7	34
44	Charging Dynamics and Optimization of Nanoporous Supercapacitors. Journal of Physical Chemistry C, 2013, 117, 12399-12406.	3.1	81
45	Effect of pore size and its dispersity on the energy storage in nanoporous supercapacitors. Energy and Environmental Science, 2012, 5, 6474.	30.8	431
46	A superionic state in nano-porous double-layer capacitors: insights from Monte Carlo simulations. Physical Chemistry Chemical Physics, 2011, 13, 11359.	2.8	249
47	Superionic state in double-layer capacitors with nanoporous electrodes. Journal of Physics Condensed Matter, 2011, 23, 022201.	1.8	192
48	Phase behavior of ionic liquid crystals. Journal of Chemical Physics, 2010, 132, .	3.0	37
49	Critical Casimir effect for colloids close to chemically patterned substrates. Journal of Chemical Physics, 2010, 133, 074702.	3.0	48
50	Critical Casimir interaction of ellipsoidal colloids with a planar wall. Journal of Chemical Physics, 2009, 131, 204902.	3.0	37
51	Normal and lateral critical Casimir forces between colloids and patterned substrates. Europhysics Letters, 2009, 88, 40004.	2.0	40
52	Critical adsorption on nonspherical colloidal particles. Journal of Chemical Physics, 2007, 126, 174902.	3.0	11
53	Effective free-energy method for nematic liquid crystals in contact with structured substrates. Physical Review E, 2007, 76, 051701.	2.1	21
54	Nematic liquid crystal in contact with periodically patterned surfaces. Liquid Crystals, 2005, 32, 95-105.	2.2	12

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55	Phase behavior of a nematic liquid crystal in contact with a chemically and geometrically structured substrate. Physical Review E, 2005, 72, 011701.	2.1	17
56	Nematic mediated interaction between periodic wallsâ€”strong anchoring limit. Journal of Molecular Liquids, 2004, 112, 61-69.	4.9	9
57	Orientational phase transition and the solvation force in a nematic liquid crystal confined between inhomogeneous substrates. European Physical Journal E, 2003, 10, 163-170.	1.6	23
58	Connection of Landau-Ginsburg models with continuous microscopic approach for self-assembling systems. Journal of Molecular Liquids, 2001, 92, 125-130.	4.9	0
59	The reference system for the highly asymmetric electrolyte solutions: The analytical treatment. Journal of Molecular Liquids, 2000, 88, 65-75.	4.9	0