

# Svyatoslav Kondrat

## List of Publications by Year in descending order

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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	Effect of pore size and its dispersity on the energy storage in nanoporous supercapacitors. <i>Energy and Environmental Science</i> , 2012, 5, 6474.	30.8	431
2	Accelerating charging dynamics in subnanometre pores. <i>Nature Materials</i> , 2014, 13, 387-393.	27.5	303
3	A superionic state in nano-porous double-layer capacitors: insights from Monte Carlo simulations. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 11359.	2.8	249
4	Superionic state in double-layer capacitors with nanoporous electrodes. <i>Journal of Physics Condensed Matter</i> , 2011, 23, 022201.	1.8	192
5	Pressing a spring: what does it take to maximize the energy storage in nanoporous supercapacitors?. <i>Nanoscale Horizons</i> , 2016, 1, 45-52.	8.0	105
6	Charging Dynamics and Optimization of Nanoporous Supercapacitors. <i>Journal of Physical Chemistry C</i> , 2013, 117, 12399-12406.	3.1	81
7	Charge Me Slowly, I Am in a Hurry: Optimizing Charge–Discharge Cycles in Nanoporous Supercapacitors. <i>ACS Nano</i> , 2018, 12, 9733-9741.	14.6	80
8	Single-File Charge Storage in Conducting Nanopores. <i>Physical Review Letters</i> , 2014, 113, 048701.	7.8	60
9	Can enzyme proximity accelerate cascade reactions?. <i>Scientific Reports</i> , 2019, 9, 455.	3.3	57
10	How to speed up ion transport in nanopores. <i>Nature Communications</i> , 2020, 11, 6085.	12.8	57
11	Dynamics of Ion Transport in Ionic Liquids. <i>Physical Review Letters</i> , 2015, 115, 106101.	7.8	54
12	Critical Casimir effect for colloids close to chemically patterned substrates. <i>Journal of Chemical Physics</i> , 2010, 133, 074702.	3.0	48
13	Macromolecular Crowding: How Shape and Interactions Affect Diffusion. <i>Journal of Physical Chemistry B</i> , 2020, 124, 7537-7543.	2.6	45
14	Charging dynamics of supercapacitors with narrow cylindrical nanopores. <i>Nanotechnology</i> , 2014, 25, 315401.	2.6	41
15	Does metabolite channeling accelerate enzyme-catalyzed cascade reactions?. <i>PLoS ONE</i> , 2017, 12, e0172673.	2.5	41
16	Normal and lateral critical Casimir forces between colloids and patterned substrates. <i>Europhysics Letters</i> , 2009, 88, 40004.	2.0	40
17	Critical Casimir interaction of ellipsoidal colloids with a planar wall. <i>Journal of Chemical Physics</i> , 2009, 131, 204902.	3.0	37
18	Phase behavior of ionic liquid crystals. <i>Journal of Chemical Physics</i> , 2010, 132, .	3.0	37

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19	The effect of dielectric permittivity on the capacitance of nanoporous electrodes. <i>Electrochemistry Communications</i> , 2013, 34, 348-350.	4.7	34
20	The effect of composition on diffusion of macromolecules in a crowded environment. <i>Physical Biology</i> , 2015, 12, 046003.	1.8	32
21	Charging Ultrananoporous Electrodes with Size-Asymmetric Ions Assisted by Apolar Solvent. <i>Journal of Physical Chemistry C</i> , 2016, 120, 16042-16050.	3.1	32
22	Critical Casimir interactions around the consolute point of a binary solvent. <i>Soft Matter</i> , 2014, 10, 5510-5522.	2.7	30
23	Bulk ionic screening lengths from extremely large-scale molecular dynamics simulations. <i>Chemical Communications</i> , 2020, 56, 15635-15638.	4.1	30
24	The effect of finite pore length on ion structure and charging. <i>Journal of Chemical Physics</i> , 2017, 147, 104708.	3.0	29
25	Connections Matter: On the Importance of Pore Percolation for Nanoporous Supercapacitors. <i>ACS Applied Energy Materials</i> , 2019, 2, 5386-5390.	5.1	29
26	Electrical Double Layers Close to Ionic Liquidâ€“Solvent Demixing. <i>Journal of Physical Chemistry C</i> , 2019, 123, 1596-1601.	3.1	26
27	Orientalional phase transition and the solvation force in a nematic liquid crystal confined between inhomogeneous substrates. <i>European Physical Journal E</i> , 2003, 10, 163-170.	1.6	23
28	Effective free-energy method for nematic liquid crystals in contact with structured substrates. <i>Physical Review E</i> , 2007, 76, 051701.	2.1	21
29	Capacitance-Power-Hysteresis Trilemma in Nanoporous Supercapacitors. <i>Physical Review X</i> , 2016, 6, .	8.9	21
30	Ionic screening in bulk and under confinement. <i>Journal of Chemical Physics</i> , 2021, 155, 204501.	3.0	19
31	Phase behaviour and structure of a superionic liquid in nonpolarized nanoconfinement. <i>Journal of Physics Condensed Matter</i> , 2016, 28, 464007.	1.8	18
32	Phase behavior of a nematic liquid crystal in contact with a chemically and geometrically structured substrate. <i>Physical Review E</i> , 2005, 72, 011701.	2.1	17
33	Conformation-changing enzymes and macromolecular crowding. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 9065-9069.	2.8	17
34	Brownian dynamics assessment of enhanced diffusion exhibited by â€˜fluctuating-dumbbell enzymesâ€™™. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 18811-18815.	2.8	16
35	Feeling Your Neighbors across the Walls: How Interpore Ionic Interactions Affect Capacitive Energy Storage. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 4523-4527.	4.6	14
36	Nematic liquid crystal in contact with periodically patterned surfaces. <i>Liquid Crystals</i> , 2005, 32, 95-105.	2.2	12

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37	Effect of proximity to ionic liquid-solvent demixing on electrical double layers. <i>Journal of Molecular Liquids</i> , 2019, 294, 111368.	4.9	12
38	Random-Alloy Model for the Conductivity of Ionic Liquid-Solvent Mixtures. <i>Journal of Physical Chemistry C</i> , 2020, 124, 11754-11759.	3.1	12
39	Critical adsorption on nonspherical colloidal particles. <i>Journal of Chemical Physics</i> , 2007, 126, 174902.	3.0	11
40	Superionic Liquids in Conducting Nanoslits: Insights from Theory and Simulations. <i>Journal of Physical Chemistry C</i> , 2021, 125, 4968-4976.	3.1	11
41	Symmetrizing cathode-anode response to speed up charging of nanoporous supercapacitors. <i>Green Energy and Environment</i> , 2022, 7, 95-104.	8.7	10
42	Nematic mediated interaction between periodic walls—strong anchoring limit. <i>Journal of Molecular Liquids</i> , 2004, 112, 61-69.	4.9	9
43	Superionic liquids in conducting nanoslits: A variety of phase transitions and ensuing charging behavior. <i>Journal of Chemical Physics</i> , 2019, 151, 184105.	3.0	9
44	Structure, dynamics and conductivities of ionic liquid-alcohol mixtures. <i>Journal of Molecular Liquids</i> , 2022, 355, 118955.	4.9	9
45	Discrete-continuous reaction-diffusion model with mobile point-like sources and sinks. <i>European Physical Journal E</i> , 2016, 39, 11.	1.6	8
46	Nonadditive interactions and phase transitions in strongly confined colloidal systems. <i>Soft Matter</i> , 2018, 14, 586-596.	2.7	8
47	Controlled deposition of nanoparticles with critical Casimir forces. <i>Nanoscale Horizons</i> , 2021, 6, 751-758.	8.0	8
48	Capacitive energy storage in single-file pores: Exactly solvable models and simulations. <i>Journal of Chemical Physics</i> , 2021, 155, 174112.	3.0	8
49	Enzyme co-localisation: Mechanisms and benefits. <i>Current Research in Chemical Biology</i> , 2022, , 100031.	2.9	8
50	How macromolecules softness affects diffusion under crowding. <i>Soft Matter</i> , 2022, 18, 5366-5370.	2.7	8
51	Debye $\kappa^{-1}$ vs $\lambda_D$ . Casimir: controlling the structure of charged nanoparticles deposited on a substrate. <i>Nanoscale</i> , 2021, 13, 6475-6488.	5.6	6
52	Hydrodynamic Properties of Polymers Screening the Electrokinetic Flow: Insights from a Computational Study. <i>Polymers</i> , 2019, 11, 1038.	4.5	4
53	Bridging transitions and capillary forces for colloids in a slit. <i>Journal of Chemical Physics</i> , 2020, 153, 014901.	3.0	4
54	Capillary Ionization and Jumps of Capacitive Energy Stored in Mesopores. <i>Journal of Physical Chemistry C</i> , 2021, 125, 10243-10249.	3.1	4

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55	Ionic liquids in conducting nanoslits: how important is the range of the screened electrostatic interactions?. <i>Journal of Physics Condensed Matter</i> , 2022, 34, 26LT01.	1.8	4
56	Probing interface localizationâ€“delocalization transitions by colloids. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 414002.	1.8	3
57	Two tributaries of the electrical double layer. <i>Journal of Physics Condensed Matter</i> , 2016, 28, 460301.	1.8	1
58	The reference system for the highly asymmetric electrolyte solutions: The analytical treatment. <i>Journal of Molecular Liquids</i> , 2000, 88, 65-75.	4.9	0
59	Connection of Landau-Ginsburg models with continuous microscopic approach for self-assembling systems. <i>Journal of Molecular Liquids</i> , 2001, 92, 125-130.	4.9	0