

Sergey Pavlov

List of Publications by Year in descending order

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13
papers

324
citations

1163117

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1199594

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all docs

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docs citations

13
times ranked

340
citing authors

#	ARTICLE	IF	CITATIONS
1	“Zhores” Petaflops supercomputer for data-driven modeling, machine learning and artificial intelligence installed in Skolkovo Institute of Science and Technology. <i>Open Engineering</i> , 2019, 9, 512-520.	1.6	148
2	Influence of defects in graphene on electron transfer kinetics: The role of the surface electronic structure. <i>Electrochimica Acta</i> , 2020, 341, 136011.	5.2	42
3	Unveiling a facile approach for large-scale synthesis of N-doped graphene with tuned electrical properties. <i>2D Materials</i> , 2020, 7, 045001.	4.4	31
4	Effects of carbon surface topography on the electrode/electrolyte interface structure and relevance to Li-air batteries. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 30830-30836.	2.8	27
5	Role of Graphene Edges in the Electron Transfer Kinetics: Insight from Theory and Molecular Modeling. <i>Journal of Physical Chemistry C</i> , 2019, 123, 6627-6634.	3.1	23
6	Graphene electrochemistry: edge vs. basal plane sites. <i>Journal of Physics: Conference Series</i> , 2018, 1092, 012112.	0.4	10
7	Fast Method for Calculating Spatially Resolved Heterogeneous Electron-Transfer Kinetics and Its Application to Graphene with Defects. <i>Journal of Physical Chemistry C</i> , 2020, 124, 18147-18155.	3.1	10
8	Investigation of the graphene-electrolyte interface in Li-air batteries: A molecular dynamics study. <i>Journal of Physics: Conference Series</i> , 2018, 946, 012028.	0.4	9
9	Valence Band Structure Engineering in Graphene Derivatives. <i>Small</i> , 2021, 17, 2104316.	10.0	8
10	Effect of carbon cathode morphology on the electrode/electrolyte interface structure. <i>High Energy Chemistry</i> , 2017, 51, 51-55.	0.9	7
11	Effect of a Au underlayer on outer-sphere electron transfer across a Au/graphene/electrolyte interface. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 22984-22991.	2.8	5
12	Effect of water on the behaviour of lithium and superoxide ions in aprotic solvents. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 22375-22383.	2.8	4
13	New Aspects of Enhancing the Graphene Capacitance by Defects in Aqueous Electrolytes and Ionic Liquids. <i>JETP Letters</i> , 0, , 1.	1.4	0