

Flaviu S Cipcigan

List of Publications by Year in descending order

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23
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23
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842
citing authors

#	ARTICLE	IF	CITATIONS
1	Crown Nanopores in Graphene for CO ₂ Capture and Filtration. ACS Nano, 2022, 16, 6274-6281.	14.6	23
2	Membrane Permeability in Cyclic Peptides is Modulated by Core Conformations. Journal of Chemical Information and Modeling, 2021, 61, 263-269.	5.4	13
3	Membrane Binding of Antimicrobial Peptides Is Modulated by Lipid Charge Modification. Journal of Chemical Theory and Computation, 2021, 17, 1218-1228.	5.3	10
4	Accelerated antimicrobial discovery via deep generative models and molecular dynamics simulations. Nature Biomedical Engineering, 2021, 5, 613-623.	22.5	157
5	Switching Cytolytic Nanopores into Antimicrobial Fractal Ruptures by a Single Side Chain Mutation. ACS Nano, 2021, 15, 9679-9689.	14.6	17
6	Two-Dimensional-Material-Based Field-Effect Transistor Biosensor for Detecting COVID-19 Virus (SARS-CoV-2). ACS Nano, 2021, 15, 11461-11469.	14.6	149
7	Electrophoretic Transport of Single-Stranded DNA through a Two Dimensional Nanopore Patterned on an In-Plane Heterostructure. ACS Nano, 2020, 14, 13137-13145.	14.6	19
8	Role of quantum confinement and interlayer coupling in CrI_3 -graphene magnetic tunnel junctions. Physical Review B, 2020, 101, .	3.2	29
9	Infrared Spectroscopic Probe of Charge Distribution in Gated Multilayer Graphene: Evidence of Nonlinear Screening. Physical Review Applied, 2020, 13, .	3.8	1
10	Structure and hydrogen bonding at the limits of liquid water stability. Scientific Reports, 2018, 8, 1718.	3.3	22
11	Accelerating molecular discovery through data and physical sciences: Applications to peptide-membrane interactions. Journal of Chemical Physics, 2018, 148, 241744.	3.0	10
12	High-response piezoelectricity modeled quantitatively near a phase boundary. Applied Physics Letters, 2017, 110, 022904.	3.3	0
13	Decoupled Piezoelectric Coefficients in Patterned 70/30 Lead Magnesium Niobate/Lead Titanate Thin Films. Advanced Functional Materials, 2017, 27, 1605014.	14.9	24
14	Electronic coarse graining enhances the predictive power of molecular simulation allowing challenges in water physics to be addressed. Journal of Computational Physics, 2016, 326, 222-233.	3.8	11
15	Molecular-Scale Remnants of the Liquid-Gas Transition in Supercritical Polar Fluids. Physical Review Letters, 2015, 115, 117801.	7.8	18
16	Chitosan solid electrolyte as electric double layer in multilayer MoS ₂ transistor for low-voltage operation. Physica Status Solidi (A) Applications and Materials Science, 2015, 212, 2219-2225.	1.8	22
17	Hydrogen bonding and molecular orientation at the liquid-vapour interface of water. Physical Chemistry Chemical Physics, 2015, 17, 8660-8669.	2.8	36
18	Signature properties of water: Their molecular electronic origins. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 6341-6346.	7.1	44

#	ARTICLE	IF	CITATIONS
19	Lateral scaling of Pb(Mg _{1/3} Nb _{2/3})O ₃ -PbTiO ₃ thin films for piezoelectric logic applications. Journal of Applied Physics, 2014, 115, .	2.5	30
20	Electronically coarse-grained molecular dynamics using quantum Drude oscillators. Molecular Physics, 2013, 111, 3465-3477.	1.7	15
21	Electronically Coarse-Grained Model for Water. Physical Review Letters, 2013, 110, 227801.	7.8	26
22	Nitrogen-induced changes in the electronic and structural properties of 4H-SiC (0001)/SiO ₂ interfaces. Physica Status Solidi (B): Basic Research, 0, , 2100224.	1.5	3