Flaviu S Cipcigan

List of Publications by Year
in descending order

22 papers	682 citations	623734 14 h-index	713466 21 g-index
23 all docs	23 docs citations	23 times ranked	842 citing authors

#	Article	IF	Citations
1	Accelerated antimicrobial discovery via deep generative models and molecular dynamics simulations. Nature Biomedical Engineering, 2021, 5, 613-623.	22.5	157
2	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
3	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
4	Hydrogen bonding and molecular orientation at the liquidâ€“vapour interface of water. Physical Chemistry Chemical Physics, 2015, 17, 8660-8669.	2.8	36
5	Lateral scaling of Pb(Mg1/3Nb2/3)O3-PbTiO3 thin films for piezoelectric logic applications. Journal of Applied Physics, 2014, 115, .	2.5	30
6	Role of quantum confinement and interlayer coupling in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">CrI</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:math> -graphene magnetic tunnel junctions. Physical Review B, 2020, 101, .	3.2	29
7	Electronically Coarse-Grained Model for Water. Physical Review Letters, 2013, 110, 227801.	7.8	26
8	Declamped Piezoelectric Coefficients in Patterned 70/30 Lead Magnesium Niobateâ€“Lead Titanate Thin Films. Advanced Functional Materials, 2017, 27, 1605014.	14.9	24
9	Crown Nanopores in Graphene for CO₂ Capture and Filtration. ACS Nano, 2022, 16, 6274-6281.	14.6	23
10	Chitosan solid electrolyte as electric double layer in multilayer MoS₂ transistor for lowâ€voltage operation. Physica Status Solidi (A) Applications and Materials Science, 2015, 212, 2219-2225.	1.8	22
11	Structure and hydrogen bonding at the limits of liquid water stability. Scientific Reports, 2018, 8, 1718.	3.3	22
12	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
13	Molecular-Scale Remnants of the Liquid-Gas Transition in Supercritical Polar Fluids. Physical Review Letters, 2015, 115, 117801.	7.8	18
14	Switching Cytolytic Nanopores into Antimicrobial Fractal Ruptures by a Single Side Chain Mutation. ACS Nano, 2021, 15, 9679-9689.	14.6	17
15	Electronically coarse-grained molecular dynamics using quantum Drude oscillators. Molecular Physics, 2013, 111, 3465-3477.	1.7	15
16	Membrane Permeability in Cyclic Peptides is Modulated by Core Conformations. Journal of Chemical Information and Modeling, 2021, 61, 263-269.	5.4	13
17	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
18	Accelerating molecular discovery through data and physical sciences: Applications to peptide-membrane interactions. Journal of Chemical Physics, 2018, 148, 241744.	3.0	10

#	Article	IF	Citations
19	Membrane Binding of Antimicrobial Peptides Is Modulated by Lipid Charge Modification. Journal of Chemical Theory and Computation, 2021, 17, 1218-1228.	5.3	10
20	Nitrogenâ€induced changes in the electronic and structural properties of 4Hâ€SiC (0001)/SiO 2 interfaces. Physica Status Solidi (B): Basic Research, 0, , 2100224.	1.5	3
21	Infrared Spectroscopic Probe of Charge Distribution in Gated Multilayer Graphene: Evidence of Nonlinear Screening. Physical Review Applied, 2020, 13, .	3.8	1
22	High-response piezoelectricity modeled quantitatively near a phase boundary. Applied Physics Letters, 2017, 110, 022904.	3.3	0