

Toan The Nguyen

List of Publications by Year in descending order

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54
papers

3,617
citations

394421

19
h-index

206112

48
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56
all docs

56
docs citations

56
times ranked

4036
citing authors

#	ARTICLE	IF	CITATIONS
1	Boundary-scattering induced Seebeck coefficient enhancement in thin films within relaxation time approximation. <i>Physica B: Condensed Matter</i> , 2022, 635, 413800.	2.7	1
2	Random lasers from the natural inverse photonic glass structure of <i>Artemia</i> eggshells. <i>Journal of Physics D: Applied Physics</i> , 2022, 55, 295104.	2.8	1
3	Evaluation of Colchicine's interaction with the ATP-binding region of mice NLRP3-NACHT domain using molecular docking and dynamics simulation. <i>Journal of Physics: Conference Series</i> , 2022, 2269, 012012.	0.4	2
4	Asymptotic critical behavior of holographic superconductor phase transition – the spectrum of excited states becomes continuous at $T = 0$. <i>Journal of High Energy Physics</i> , 2022, 2022, .	4.7	1
5	The Interplay of Cholesterol and Ligand Binding in hTSP0 from Classical Molecular Dynamics Simulations. <i>Molecules</i> , 2021, 26, 1250.	3.8	5
6	Construction of dimeric hTSP0 protein model using homology modeling and molecular dynamics. <i>Journal of Physics: Conference Series</i> , 2021, 1932, 012016.	0.4	1
7	On the holographic phase transitions at finite topological charge. <i>European Physical Journal C</i> , 2021, 81, 1.	3.9	1
8	Effects of surface charge and environmental factors on the electrostatic interaction of fiber with virus-like particle: A case of coronavirus. <i>AIP Advances</i> , 2021, 11, 105008.	1.3	7
9	Influence of fatty alcohol mixing ratios on physicochemical properties of stearyl-cetyl-polysorbate 60-water ternary system: Insights from experiments and computer simulations. <i>Colloid and Polymer Science</i> , 2021, 299, 1885-1900.	2.1	5
10	A Systematic Study of Electronic Structure for Anti-cancer Drug Molecule 5-Fluorouracil Within Various Solvents from First-Principles Calculations. <i>IFMBE Proceedings</i> , 2020, , 721-726.	0.3	0
11	Homology modeling of mouse NLRP3 NACHT protein domain and molecular dynamics simulation of its ATP binding properties. <i>International Journal of Modern Physics C</i> , 2020, 31, 2050036.	1.7	2
12	Investigating molecular mechanism for the stability of ternary systems containing cetrimide, fatty alcohol and water by using computer simulation. <i>Journal of Molecular Graphics and Modelling</i> , 2020, 95, 107500.	2.4	5
13	Computational study of μ -opioid receptor embedded in a realistic membrane. <i>Journal of Physics: Conference Series</i> , 2020, 1506, 012023.	0.4	0
14	Molecular mechanism of ultrasound interaction with a blood brain barrier model. <i>Journal of Chemical Physics</i> , 2020, 153, 045104.	3.0	15
15	Experimental combined theoretical study on chemical interactions of graphene oxide with chitosan and its resistive-switching effect. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2020, 262, 114788.	3.5	7
16	Enhanced thermoelectricity at the ultra-thin film limit. <i>Applied Physics Letters</i> , 2020, 117, .	3.3	9
17	Chicken albumen-based whispering gallery mode microlasers. <i>Soft Matter</i> , 2020, 16, 9069-9073.	2.7	16
18	Overcharging of the Zinc Ion in the Structure of the Zinc-Finger Protein Is Needed for DNA Binding Stability. <i>Biochemistry</i> , 2020, 59, 1378-1390.	2.5	13

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19	Effect of Surface States and Breakdown of the Schottky-Mott Limit of Graphene/Silicon van der Waals Heterostructure. <i>Journal of Physical Chemistry C</i> , 2020, 124, 8958-8970.	3.1	6
20	Hydrogen adsorption mechanism of MOF-74 metal-organic frameworks: an insight from first principles calculations. <i>RSC Advances</i> , 2020, 10, 43940-43949.	3.6	13
21	Numerical Solution for the Counterions Distribution in a Hexagonal DNA Lattice within Mean Field Theory Using Finite Element Method. <i>Materials Transactions</i> , 2020, 61, 1455-1461.	1.2	1
22	Computational study of the effect of protonation states of PSA protein zinc fingers on its DNA binding. <i>Journal of Physics: Conference Series</i> , 2019, 1274, 012002.	0.4	0
23	Factors on the magnetic properties of the iron nanoparticles by classical Heisenberg model. <i>Physica B: Condensed Matter</i> , 2018, 532, 144-148.	2.7	15
24	DNA like-charge attraction and overcharging by divalent counterions in the presence of divalent co-ions. <i>Journal of Biological Physics</i> , 2017, 43, 185-195.	1.5	7
25	Grand-canonical Monte Carlo simulation of DNA condensation in equilibrium with a salt mixture containing 2:2 salt. <i>Journal of Physics: Conference Series</i> , 2017, 865, 012010.	0.4	0
26	Grand-canonical simulation of DNA condensation with two salts, effect of divalent counterion size. <i>Journal of Chemical Physics</i> , 2016, 144, 065102.	3.0	11
27	Strongly correlated electrostatics of viral genome packaging. <i>Journal of Biological Physics</i> , 2013, 39, 247-265.	1.5	4
28	Inhibition of DNA ejection from bacteriophage by Mg ²⁺ counterions. <i>Journal of Chemical Physics</i> , 2011, 134, 125104.	3.0	8
29	Reentrant Behavior of Divalent-Counterion-Mediated DNA-DNA Electrostatic Interaction. <i>Physical Review Letters</i> , 2010, 105, 248101.	7.8	9
30	Structural transitions of encapsidated polyelectrolytes. <i>European Physical Journal E</i> , 2008, 25, 323-334.	1.6	28
31	Model of human immunodeficiency virus budding and self-assembly: Role of the cell membrane. <i>Physical Review E</i> , 2008, 78, 051903.	2.1	21
32	Radial Distribution of RNA Genomes Packaged inside Spherical Viruses. <i>Physical Review Letters</i> , 2008, 100, 198102.	7.8	15
33	Microtubule Protofilament Number Is Modulated in a Stepwise Fashion by the Charge Density of an Enveloping Layer. <i>Biophysical Journal</i> , 2007, 92, 278-287.	0.5	32
34	Continuum Theory of Retroviral Capsids. <i>Physical Review Letters</i> , 2006, 96, 078102.	7.8	52
35	Kinetically driven self assembly of highly ordered nanoparticle monolayers. <i>Nature Materials</i> , 2006, 5, 265-270.	27.5	1,021
36	RNA Condensation and the Wetting Transition. <i>Physical Review Letters</i> , 2006, 97, 108102.	7.8	9

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37	Elasticity theory and shape transitions of viral shells. <i>Physical Review E</i> , 2005, 72, 051923.	2.1	108
38	Model for the onset of transport in systems with distributed thresholds for conduction. <i>Physical Review B</i> , 2005, 71, .	3.2	40
39	Surface charge relaxation and the pearling instability of charged surfactant tubes. <i>Physical Review E</i> , 2005, 72, 051930.	2.1	24
40	Persistence length of a polyelectrolyte in salty water: Monte Carlo study. <i>Physical Review E</i> , 2002, 66, 021801.	2.1	44
41	Kinetics of macroion coagulation induced by multivalent counterions. <i>Physical Review E</i> , 2002, 65, 031409.	2.1	25
42	Model of Inversion of DNA Charge by a Positive Polymer: Fractionalization of the Polymer Charge. <i>Physical Review Letters</i> , 2002, 89, 018101.	7.8	32
43	Colloquium: The physics of charge inversion in chemical and biological systems. <i>Reviews of Modern Physics</i> , 2002, 74, 329-345.	45.6	988
44	Inversion of DNA charge by a positive polymer via fractionalization of the polymer charge. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2002, 310, 197-211.	2.6	10
45	Inversion of DNA charge by a positive polymer via fractionalization of the polymer charge. <i>European Physical Journal Special Topics</i> , 2002, 12, 215-220.	0.2	0
46	Adsorption of charged particles on an oppositely charged surface: Oscillating inversion of charge. <i>Physical Review E</i> , 2001, 64, 041407.	2.1	27
47	Overcharging of a macroion by an oppositely charged polyelectrolyte. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2001, 293, 324-338.	2.6	118
48	Complexation of a polyelectrolyte with oppositely charged spherical macroions: Giant inversion of charge. <i>Journal of Chemical Physics</i> , 2001, 114, 5905-5916.	3.0	137
49	Complexation of DNA with positive spheres: Phase diagram of charge inversion and reentrant condensation. <i>Journal of Chemical Physics</i> , 2001, 115, 7298-7308.	3.0	129
50	Lateral Correlation of Multivalent Counterions is the Universal Mechanism of Charge Inversion. , 2001, , 469-486.		1
51	Reentrant condensation of DNA induced by multivalent counterions. <i>Journal of Chemical Physics</i> , 2000, 112, 2562-2568.	3.0	237
52	Macroions in Salty Water with Multivalent Ions: Giant Inversion of Charge. <i>Physical Review Letters</i> , 2000, 85, 1568-1571.	7.8	151
53	Screening of a charged particle by multivalent counterions in salty water: Strong charge inversion. <i>Journal of Chemical Physics</i> , 2000, 113, 1110-1125.	3.0	161
54	Negative electrostatic contribution to the bending rigidity of charged membranes and polyelectrolytes screened by multivalent counterions. <i>Physical Review E</i> , 1999, 60, 7032-7039.	2.1	29