Ferenc BogÃ¡r

List of Publications by Year
in descending order

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78	1,230	430874	414414
papers	citations	18 h-index	32 g-index

79	79	79	1801
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Charge carrier mobility in quasi-one-dimensional systems: Application to a guanine stack. Journal of Chemical Physics, 2003, 119, 5690-5695.	3.0	153
2	Functionalization of gold nanoparticles with amino acid, Î²-amyloid peptides and fragment. Colloids and Surfaces B: Biointerfaces, 2010, 81, 235-241.	5.0	116
3	Î²-Amyloid and the Pathomechanisms of Alzheimerâ€™s Disease: A Comprehensive View. Molecules, 2017, 22, 1692.	3.8	82
4	Heat Shock Proteins and Autophagy Pathways in Neuroprotection: From Molecular Bases to Pharmacological Interventions. International Journal of Molecular Sciences, 2018, 19, 325.	4.1	68
5	Oligomerization and Conformational Change Turn Monomeric Î²-Amyloid and Tau Proteins Toxic: Their Role in Alzheimerâ€™s Pathogenesis. Molecules, 2020, 25, 1659.	3.8	60
6	The Impact of Molecular Dynamics Sampling on the Performance of Virtual Screening against GPCRs. Journal of Chemical Information and Modeling, 2013, 53, 2990-2999.	5.4	52
7	Applications of theMBPTin the localized representation. International Journal of Quantum Chemistry, 1990, 38, 139-147.	2.0	42
8	Application of the many-body perturbation theory to normal saturated hydrocarbons in the localized representation. Theoretica Chimica Acta, 1987, 72, 337-345.	0.8	34
9	Correlation corrected energy bands of nucleotide base stacks. Chemical Physics, 1998, 237, 273-283.	1.9	31
10	Protein Folding and Misfolding, Endoplasmic Reticulum Stress in Neurodegenerative Diseases: in Trace of Novel Drug Targets. Current Protein and Peptide Science, 2016, 17, 169-182.	1.4	30
11	Key Peptides and Proteins in Alzheimerâ€™s Disease. Current Protein and Peptide Science, 2019, 20, 577-599.	1.4	30
12	The study of normal saturated hydrocarbons in the localized representation of the MBPT. Computational and Theoretical Chemistry, 1988, 170, 59-67.	1.5	24
13	Correlation-corrected energy bands of polymers with large unit cell: poly(para-phenylene) and poly(peri-naphthalene). Computational and Theoretical Chemistry, 1997, 391, 193-199.	1.5	23
14	Studying the structural properties of polyalanine and polyglutamine peptides. Journal of Molecular Modeling, 2007, 13, 1141-1150.	1.8	23
15	Rapid Evolution of Reduced Susceptibility against a Balanced Dual-Targeting Antibiotic through Stepping-Stone Mutations. Antimicrobial Agents and Chemotherapy, 2019, 63, .	3.2	23
16	Density-functional calculations of the elastic properties of some polymer chains. Physical Review B, 2000, 62, 10142-10150.	3.2	22
17	On the Hofmeister Effect: Fluctuations at the Proteinâ€“Water Interface and the Surface Tension. Journal of Physical Chemistry B, 2014, 118, 8496-8504.	2.6	22
18	The electronic structure of the four nucleotide bases in DNA, of their stacks, and of their homopolynucleotides in the absence and presence of water. Journal of Chemical Physics, 2008, 128, 105101.	3.0	21

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19	Rational design of balanced dual-targeting antibiotics with limited resistance. PLoS Biology, 2020, 18, e3000819.	5.6	20
20	Use of ab initio methods to classify four existing energy density functionals according to their possible variational validity. Physics Letters, Section A: General, Atomic and Solid State Physics, 2009, 373, 3158-3160.	2.1	19
21	B3LYP, BLYP and PBE DFT band structures of the nucleotide base stacks. International Journal of Quantum Chemistry, 2005, 102, 422-426.	2.0	18
22	Many-Body Perturbation Theory with Localized Orbitals â€" Kapuyâ€™s Approach. Topics in Current Chemistry, 1999, , 43-61.	4.0	15
23	Novel Therapeutic Target for Prevention of Neurodegenerative Diseases: Modulation of Neuroinflammation with Sig-1R Ligands. Biomolecules, 2022, 12, 363.	4.0	14
24	Hydrogen bonding of 3- and 5-methyl-6-aminouracil with natural DNA bases. New Journal of Chemistry, 2008, 32, 1981.	2.8	13
25	Insights into graphene oxide interaction with human serum albumin in isolated state and in blood plasma. International Journal of Biological Macromolecules, 2021, 175, 19-29.	7.5	13
26	Charge transfer between the <mml:math altimg="si3.gif" display="inline" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ce="http://www.. Chemical Phys	2.6	11
27	Model calculations of the energy band structures of double stranded DNA in the presence of water and Na+ ions. Solid State Communications, 2011, 151, 301-305.	1.9	10
28	The interfacial tension concept, as revealed by fluctuations. Current Opinion in Colloid and Interface Science, 2016, 23, 29-40.	7.4	10
29	Correlation corrected band structures of different homopolypeptides. Physical Chemistry Chemical Physics, 2001, 3, 5426-5429.	2.8	9
30	Influence of the sequence on the ab initio band structures of single and double stranded DNA models. Physics Letters, Section A: General, Atomic and Solid State Physics, 2014, 378, 2157-2162.	2.1	9
31	Localization of virtual orbitals. International Journal of Quantum Chemistry, 1990, 38, 215-219.	2.0	8
32	Application of many-body perturbation theory in the localized representation for the all-transconjugated polyenes. International Journal of Quantum Chemistry, 1994, 52, 127-133.	2.0	8
33	Ab initiocalculation of the Young's modulus of Î±-polyamides. International Journal of Quantum Chemistry, 2002, 87, 303-310.	2.0	8
34	Ab initio investigation of the Young's modulus of polyamide-6. International Journal of Quantum Chemistry, 2003, 91, 32-38.	2.0	8
35	Applications of the many-body perturbation theory in the localized representation: structural effects in the correlation energy of normal saturated hyd. Computational and Theoretical Chemistry, 1991, 233, 61-70.	1.5	7
36	Energy bands and bond alternation potential in poly(para-phenylene vinylene): a comparative ab initio quantum chemical and density functional theory study. Computational and Theoretical Chemistry, 1998, 430, 73-84.	1.5	7

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37	Correlation corrected band structures of different homopolypeptides.. Physical Chemistry Chemical Physics, 2003, 5, 953-955.	2.8	7
38	The role of water and K+ ion in the charge transfer between <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" display="inline" overflow="scroll"><mml:mrow><mml:msubsup><mml:mrow><mml:mtext>PO</mml:mtext></mml:mrow><mml:mrow><mml:mn>4</m groups of DNA and the lysine+ and arginine+ side chains of histone proteins. Chemical Physics Letters, 2008, 463, 211-213.	2.6	7
39	Determination of binding capacity and adsorption enthalpy between Human Glutamate Receptor (GluR1) peptide fragments and kynurenic acid by surface plasmon resonance experiments. Part 2: Interaction of GluR1270â€“300 with KYNA. Colloids and Surfaces B: Biointerfaces, 2015, 133, 66-72.	5.0	7
40	Binding of dipeptidyl peptidase III to the oxidative stress cell sensor Kelch-like ECH-associated protein 1 is a two-step process. Journal of Biomolecular Structure and Dynamics, 2020, 39, 1-12.	3.5	7
41	Novel High Affinity Sigma-1 Receptor Ligands from Minimal Ensemble Docking-Based Virtual Screening. International Journal of Molecular Sciences, 2021, 22, 8112.	4.1	7
42	Many-body perturbation theory for spatially extended systems. Journal of Molecular Structure, 1993, 297, 365-371.	3.6	6
43	Comparison of HF, HF + MP2, LDA, BLYP, and B3LYP band structures of the homopolypeptides. International Journal of Quantum Chemistry, 2004, 98, 522-527.	2.0	6
44	Density functional study of infinite polyserine chains. Physical Chemistry Chemical Physics, 2005, 7, 2965.	2.8	6
45	Density functional crystal orbital study of cyano-substituted poly(para-phenylene-vinylene) and poly(quinoxaline-vinylene). International Journal of Quantum Chemistry, 2006, 106, 1912-1923.	2.0	6
46	Exploring and characterizing the folding processes of Lys- and Arg-containing Ala-based peptides: A molecular dynamics study. Computational Biology and Chemistry, 2011, 35, 240-250.	2.3	6
47	Hole mobilities of periodic models of DNA double helices in the nucleosomes at different temperatures. Chemical Physics Letters, 2013, 565, 128-131.	2.6	6
48	A QM/MM program using frozen localized orbitals and the Huzinaga equation. Theoretical Chemistry Accounts, 2015, 134, 1.	1.4	6
49	Loop-F of the Î±-subunit determines the pharmacologic profile of novel competitive inhibitors of GABA A receptors. European Journal of Pharmacology, 2017, 798, 129-136.	3.5	6
50	Density-based one-dimensional model potentials for strong-field simulations in He, <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi mathvariant="normal">H</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msup><mml:mrow /><mml:mo>+</mml:mo></mml:msup></mml:mrow></mml:math> , and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">H</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>. Physical Review A,	2.5	6
51	Correlation corrected energy bands of poly(para-phenylene-vinylene). Computational and Theoretical Chemistry, 1998, 455, 161-164.	1.5	5
52	Helix and H-bond formations of alanine-based peptides containing basic amino acids. Structural Chemistry, 2011, 22, 1287-1295.	2.0	5
53	Dynamics and structural determinants of ligand recognition of the 5-HT6 receptor. Journal of Computer-Aided Molecular Design, 2015, 29, 1137-1149.	2.9	5
54	Calculation of correlation-corrected band structures of polymers in the case of quasi-degeneracy. Solid State Communications, 1997, 103, 639-644.	1.9	4

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55	Correlation corrected Hartree-Fock and density functional computations on periodic polymers. Advances in Quantum Chemistry, 2001, , 19-34.	0.8	4
56	Calculation of the hole mobilities of the three homopolynucleotides, poly(guanilic acid), poly(adenilic acid), and polythymidine in the presence of water andNa+ions. Physical Review E, 2008, 78, 061923.	2.1	4
57	Charge transfer between DNA and proteins in the nucleosomes. Theoretical Chemistry Accounts, 2010, 125, 185-191.	1.4	4
58	Characterizing the structural and folding properties of longâ€sequence hypomurocin B peptides and their analogs. Biopolymers, 2016, 106, 645-657.	2.4	4
59	sVmKTx, a transcriptome analysis-based synthetic peptide analogue of Vm24, inhibits Kv1.3 channels of human T cells with improved selectivity. Biochemical Pharmacology, 2022, 199, 115023.	4.4	4
60	Interaction of KRSR Peptide with Titanium Dioxide Anatase (100) Surface: A Molecular Dynamics Simulation Study. International Journal of Molecular Sciences, 2021, 22, 13251.	4.1	4
61	The effect of breathing vibration on the charge carrier mobility of a guanineâ€“cytosine base pair stack. Chemical Physics Letters, 2006, 424, 399-402.	2.6	3
62	Pauli potential from Heilmann-Lieb electron density obtained by summing hydrogenic closed-shell densities over the entire bound-state spectrum. Physical Review A, 2011, 83, .	2.5	3
63	Pauli potential functional for spherical inhomogeneous electron liquids generated by a bare Coulomb field. Physics and Chemistry of Liquids, 2012, 50, 412-414.	1.2	3
64	Possible role of ions in DNAâ€“protein interactions in the nucleosomes. Chemical Physics Letters, 2012, 525-526, 115-119.	2.6	3
65	The interaction of half-sandwich (Î·5-Cp*)Rh(III) cation with histidine containing peptides and their ternary species with (N,N) bidentate ligands. Journal of Inorganic Biochemistry, 2021, 216, 111330.	3.5	3
66	The transferability of some molecular properties in all-trans conjugated polyenes. Computational and Theoretical Chemistry, 1991, 226, 351-355.	1.5	2
67	Correlation corrected band structures of homopolypeptides v. B3LYP band structures of 19 homopolypeptides. International Journal of Quantum Chemistry, 2004, 99, 47-52.	2.0	2
68	Use of the differential virial theorem to estimate the spatial variation of the exchange-correlation forceâˆ'â^‚VXC(r)â^•â^‚rin the ground states of the spherical atoms He and Be. Physical Review A, 2009, 79, .	2.5	2
69	Aspartic acid scaffold in bradykinin B1 antagonists. Journal of Peptide Science, 2009, 15, 423-434.	1.4	2
70	A simple model for the band structure and D.C. conductivity of an infinite Cï£¾OÂ·Â·Â·Hï£¿N chain perpendicular to the protein backbone. International Journal of Quantum Chemistry, 2009, 109, 612-617.	2.0	2
71	Opposite effect of Ca2+/Mg2+ ions on the aggregation of native and precursor-derived AÎ²42. Structural Chemistry, 2015, 26, 1389-1403.	2.0	2
72	Investigation of the correlation energy component of the intermolecular interaction energy. International Journal of Quantum Chemistry, 1993, 48, 43-50.	2.0	1

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73	Gas chromatographic-mass spectrometric determination of a phenylcinnamic acid isomers: Practical and theoretical aspects. Journal of Chromatography A, 1994, 668, 353-358.	3.7	1
74	Comparative study of SP[6-11] and its analogs using simulated annealing. Biopolymers, 2005, 78, 35-45.	2.4	1
75	Geometry optimization of the cytosine molecules in a cytosine stack using the B3LYP crystal orbital method. International Journal of Quantum Chemistry, 2005, 105, 74-78.	2.0	1
76	Effects of sub-chronic, in vivo administration of sigma non-opioid intracellular receptor 1 ligands on platelet and aortic arachidonate cascade in rats. European Journal of Pharmacology, 2022, 925, 174983.	3.5	1
77	Model calculation of the specific hole conductivities of three homopolynucleotides, poly(guanilic) Tj ETQq1 1 0.784314 rgBT /Overloc Communications, 2010, 150, 446-449.	1.9	0
78	Relation between single-particle kinetic energy and exchange energy in DFT for the inhomogeneous electron liquid in the Be atom. Physics and Chemistry of Liquids, 2010, 48, 272-278.	1.2	0