

Serdal Kirmizialtin

List of Publications by Year in descending order

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Version: 2024-02-01

44
papers

1,359
citations

331670

21
h-index

361022

35
g-index

48
all docs

48
docs citations

48
times ranked

1521
citing authors

#	ARTICLE	IF	CITATIONS
1	How Conformational Dynamics of DNA Polymerase Select Correct Substrates: Experiments and Simulations. <i>Structure</i> , 2012, 20, 618-627.	3.3	107
2	RNA and Its Ionic Cloud: Solution Scattering Experiments and Atomically Detailed Simulations. <i>Biophysical Journal</i> , 2012, 102, 819-828.	0.5	89
3	Single-Molecule Electrophoresis of \hat{I}^2 -Hairpin Peptides by Electrical Recordings and Langevin Dynamics Simulations. <i>Journal of Physical Chemistry B</i> , 2007, 111, 3332-3335.	2.6	82
4	Taming the Topology of Calix[4]arene-Based 2D-Covalent Organic Frameworks: Interpenetrated vs Noninterpenetrated Frameworks and Their Selective Removal of Cationic Dyes. <i>Journal of the American Chemical Society</i> , 2021, 143, 3407-3415.	13.7	80
5	Revisiting and Computing Reaction Coordinates with Directional Milestoning. <i>Journal of Physical Chemistry A</i> , 2011, 115, 6137-6148.	2.5	74
6	Computer simulations of the translocation and unfolding of a protein pulled mechanically through a pore. <i>Journal of Chemical Physics</i> , 2005, 123, 124903.	3.0	70
7	The Ionic Atmosphere around A-RNA: Poisson-Boltzmann and Molecular Dynamics Simulations. <i>Biophysical Journal</i> , 2012, 102, 829-838.	0.5	68
8	Topography of the free-energy landscape probed via mechanical unfolding of proteins. <i>Journal of Chemical Physics</i> , 2005, 122, 234915.	3.0	67
9	Computational Exploration of Mobile Ion Distributions around RNA Duplex. <i>Journal of Physical Chemistry B</i> , 2010, 114, 8207-8220.	2.6	64
10	Translocation of a \hat{I}^2 -hairpin-forming peptide through a cylindrical tunnel. <i>Journal of Chemical Physics</i> , 2004, 121, 10268-10277.	3.0	50
11	Designed Cell-Penetrating Peptide Inhibitors of Amyloid-beta Aggregation and Cytotoxicity. <i>Cell Reports Physical Science</i> , 2020, 1, 100014.	5.6	47
12	Redox-Responsive Covalent Organic Nanosheets from Viologens and Calix[4]arene for Iodine and Toxic Dye Capture. <i>Chemistry - A European Journal</i> , 2018, 24, 8648-8655.	3.3	43
13	The in vitro selection world. <i>Methods</i> , 2016, 106, 3-13.	3.8	41
14	Rapid and Efficient Removal of Perfluorooctanoic Acid from Water with Fluorine-Rich Calixarene-Based Porous Polymers. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 43160-43166.	8.0	40
15	Calix[4]arene-Based Porous Organic Nanosheets. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 17359-17365.	8.0	39
16	Revealing the distinct folding phases of an RNA three-helix junction. <i>Nucleic Acids Research</i> , 2018, 46, 7354-7365.	14.5	38
17	Polyelectrolyte properties of single stranded DNA measured using SAXS and single-molecule FRET: Beyond the wormlike chain model. <i>Biopolymers</i> , 2013, 99, 1032-1045.	2.4	34
18	Cryo_fit: Democratization of flexible fitting for cryo-EM. <i>Journal of Structural Biology</i> , 2019, 208, 1-6.	2.8	30

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19	A polyrotaxanated covalent organic network based on viologen and cucurbit[7]uril. <i>Communications Chemistry</i> , 2019, 2, .	4.5	29
20	Enzyme Selectivity of HIV Reverse Transcriptase: Conformations, Ligands, and Free Energy Partition. <i>Journal of Physical Chemistry B</i> , 2015, 119, 11513-11526.	2.6	28
21	The structural plasticity of nucleic acid duplexes revealed by WAXS and MD. <i>Science Advances</i> , 2021, 7, .	10.3	25
22	Computer simulations of protein translocation. <i>Physica Status Solidi (B): Basic Research</i> , 2006, 243, 2038-2047.	1.5	24
23	Structure-guided DNA-DNA attraction mediated by divalent cations. <i>Nucleic Acids Research</i> , 2020, 48, 7018-7026.	14.5	24
24	Using Molecular Simulation to Model High-Resolution Cryo-EM Reconstructions. <i>Methods in Enzymology</i> , 2015, 558, 497-514.	1.0	21
25	Tracking fluctuation hotspots on the yeast ribosome through the elongation cycle. <i>Nucleic Acids Research</i> , 2017, 45, 4958-4971.	14.5	17
26	Integrating Molecular Dynamics Simulations with Chemical Probing Experiments Using SHAPE-FIT. <i>Methods in Enzymology</i> , 2015, 553, 215-234.	1.0	14
27	A Chemical Template for Synthesis of Molecular Sheets of Calcium Carbonate. <i>Scientific Reports</i> , 2016, 6, 25393.	3.3	12
28	Visualizing RNA Structures by SAXS-Driven MD Simulations. <i>Frontiers in Bioinformatics</i> , 2022, 2, .	2.1	12
29	Simulations of the untying of molecular friction knots between individual polymer strands. <i>Journal of Chemical Physics</i> , 2008, 128, 094901.	3.0	11
30	Kinetic and thermodynamic analysis defines roles for two metal ions in DNA polymerase specificity and catalysis. <i>Journal of Biological Chemistry</i> , 2021, 296, 100184.	3.4	11
31	Comparative Computational Approach To Study Enzyme Reactions Using QM and QM-MM Methods. <i>ACS Omega</i> , 2018, 3, 14689-14703.	3.5	10
32	New surfactants design for CO2 applications: Molecular dynamics simulations of fluorocarbon-hydrocarbon oligomers. <i>Journal of Chemical Physics</i> , 2003, 119, 4953-4961.	3.0	9
33	Substrate specificity and proposed structure of the proofreading complex of T7 DNA polymerase. <i>Journal of Biological Chemistry</i> , 2022, 298, 101627.	3.4	8
34	A DFT-based mechanistic study on the formation of oximes. <i>Journal of Physical Organic Chemistry</i> , 2017, 30, e3711.	1.9	7
35	Refining the RNA Force Field with Small-Angle X-ray Scattering of Helix-Junction-Helix RNA. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 3400-3408.	4.6	7
36	Exploring Cation Mediated DNA Interactions Using Computer Simulations. <i>Lecture Notes in Bioengineering</i> , 2020, , 51-63.	0.4	6

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37	Conformational dynamics during misincorporation and mismatch extension defined using a DNA polymerase with a fluorescent artificial amino acid. <i>Journal of Biological Chemistry</i> , 2022, 298, 101451.	3.4	5
38	Insights into the structural stability of major groove RNA triplexes by WAXS-guided MD simulations. <i>Cell Reports Physical Science</i> , 2022, 3, 100971.	5.6	5
39	Conformational Properties of the Bacterial Polyester Poly(3-hydroxy-5,8-decadienoate). <i>Macromolecules</i> , 2003, 36, 1132-1137.	4.8	4
40	Dramatic Shape Changes Occur as Cytochrome <i>c</i> Folds. <i>Journal of Physical Chemistry B</i> , 2020, 124, 8240-8248.	2.6	4
41	Molecular Dynamics Simulations of Ribosomes: Integrating Theory and Experiment. <i>Biophysical Journal</i> , 2014, 106, 39a.	0.5	2
42	Vibrational spectroscopy of structural defects in oligothiophenes. <i>Molecular Physics</i> , 2003, 101, 2725-2729.	1.7	1
43	Nanoscale Biological Materials. <i>Journal of Nanomaterials</i> , 2016, 2016, 1-2.	2.7	0
44	Dynamics of induced fit in HIV reverse transcriptase specificity and resistance. <i>FASEB Journal</i> , 2012, 26, 964.5.	0.5	0