

Asuka A Orr

List of Publications by Year in descending order

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Version: 2024-02-01

59
papers

1,583
citations

279778

23
h-index

330122

37
g-index

60
all docs

60
docs citations

60
times ranked

1869
citing authors

#	ARTICLE	IF	CITATIONS
1	Self-Assembly of Phenylalanine Oligopeptides: Insights from Experiments and Simulations. <i>Biophysical Journal</i> , 2009, 96, 5020-5029.	0.5	212
2	Structure-Dependent Modulation of Aryl Hydrocarbon Receptor-Mediated Activities by Flavonoids. <i>Toxicological Sciences</i> , 2018, 164, 205-217.	3.1	82
3	Self-Assembled Peptide Nano-Superstructure towards Enzyme Mimicking Hydrolysis. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 17164-17170.	13.8	69
4	Enhanced adsorption of per- and polyfluoroalkyl substances (PFAS) by edible, nutrient-amended montmorillonite clays. <i>Water Research</i> , 2021, 188, 116534.	11.3	62
5	Forcefield_NCAA: <i>Ab Initio</i> Charge Parameters to Aid in the Discovery and Design of Therapeutic Proteins and Peptides with Unnatural Amino Acids and Their Application to Complement Inhibitors of the Compstatin Family. <i>ACS Synthetic Biology</i> , 2014, 3, 855-869.	3.8	59
6	Molecular Recognition of CCR5 by an HIV-1 gp120 V3 Loop. <i>PLoS ONE</i> , 2014, 9, e95767.	2.5	56
7	Molecular Recognition of CXCR4 by a Dual Tropic HIV-1 gp120 V3 Loop. <i>Biophysical Journal</i> , 2013, 105, 1502-1514.	0.5	52
8	Elucidating a Key Component of Cancer Metastasis: CXCL12 (SDF-1 β) Binding to CXCR4. <i>Journal of Chemical Information and Modeling</i> , 2014, 54, 1174-1188.	5.4	49
9	High-Efficiency Fluorescence through Bioinspired Supramolecular Self-Assembly. <i>ACS Nano</i> , 2020, 14, 2798-2807.	14.6	49
10	Interactions between Curcumin Derivatives and Amyloid- β Fibrils: Insights from Molecular Dynamics Simulations. <i>Journal of Chemical Information and Modeling</i> , 2020, 60, 289-305.	5.4	44
11	Amyloid-Like Self-Assembly of Peptide Sequences from the Adenovirus Fiber Shaft: Insights from Molecular Dynamics Simulations. <i>Journal of Physical Chemistry B</i> , 2009, 113, 15639-15647.	2.6	42
12	Editor's Highlight: Microbial-Derived 1,4-Dihydroxy-2-naphthoic Acid and Related Compounds as Aryl Hydrocarbon Receptor Agonists/Antagonists: Structure-Activity Relationships and Receptor Modeling. <i>Toxicological Sciences</i> , 2017, 155, 458-473.	3.1	40
13	Elucidating a Key Anti-HIV-1 and Cancer-Associated Axis: The Structure of CCL5 (Rantes) in Complex with CCR5. <i>Scientific Reports</i> , 2014, 4, 5447.	3.3	38
14	Self-Assembled Amyloid Peptides with Arg-Gly-Asp (RGD) Motifs As Scaffolds for Tissue Engineering. <i>ACS Biomaterials Science and Engineering</i> , 2017, 3, 1404-1416.	5.2	38
15	Species specificity of the complement inhibitor compstatin investigated by all-atom molecular dynamics simulations. <i>Proteins: Structure, Function and Bioinformatics</i> , 2010, 78, 2655-2667.	2.6	34
16	Molecular Dynamics in Drug Design: New Generations of Compstatin Analogs. <i>Chemical Biology and Drug Design</i> , 2012, 79, 703-718.	3.2	34
17	Montmorillonites Can Tightly Bind Glyphosate and Paraquat Reducing Toxin Exposures and Toxicity. <i>ACS Omega</i> , 2019, 4, 17702-17713.	3.5	33
18	Enhanced Fluorescence for Bioassembly by Environment-Switching Doping of Metal Ions. <i>Advanced Functional Materials</i> , 2020, 30, 1909614.	14.9	33

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19	Montmorillonite clay-based sorbents decrease the bioavailability of per- and polyfluoroalkyl substances (PFAS) from soil and their translocation to plants. <i>Environmental Research</i> , 2022, 205, 112433.	7.5	27
20	Protection of Oxygen-Sensitive Enzymes by Peptide Hydrogel. <i>ACS Nano</i> , 2021, 15, 6530-6539.	14.6	26
21	Novel compstatin family peptides inhibit complement activation by drusen-like deposits in human retinal pigmented epithelial cell cultures. <i>Experimental Eye Research</i> , 2013, 116, 96-108.	2.6	25
22	Isoflavones as Ah Receptor Agonists in Colon-Derived Cell Lines: Structure-Activity Relationships. <i>Chemical Research in Toxicology</i> , 2019, 32, 2353-2364.	3.3	25
23	Design of a modified mouse protein with ligand binding properties of its human analog by molecular dynamics simulations: The case of C3 inhibition by compstatin. <i>Proteins: Structure, Function and Bioinformatics</i> , 2011, 79, 3166-3179.	2.6	24
24	Exploring Protein-Protein and Protein-Ligand Interactions in the Immune System using Molecular Dynamics and Continuum Electrostatics. <i>Current Physical Chemistry</i> , 2012, 2, 324-343.	0.2	24
25	Highly Accurate Structure-Based Prediction of HIV-1 Coreceptor Usage Suggests Intermolecular Interactions Driving Tropism. <i>PLoS ONE</i> , 2016, 11, e0148974.	2.5	23
26	Self-Assembly of an Aspartate-Rich Sequence from the Adenovirus Fiber Shaft: Insights from Molecular Dynamics Simulations and Experiments. <i>Journal of Physical Chemistry B</i> , 2014, 118, 1765-1774.	2.6	22
27	Uncovering the Binding and Specificity of I ² -Wrapins for Amyloid-I ² and I [±] -Synuclein. <i>Journal of Physical Chemistry B</i> , 2016, 120, 12781-12794.	2.6	22
28	Insights into the mechanism of C5aR inhibition by PMX53 via implicit solvent molecular dynamics simulations and docking. <i>BMC Biophysics</i> , 2014, 7, 5.	4.4	21
29	Princeton_TIGRESS: Protein geometry refinement using simulations and support vector machines. <i>Proteins: Structure, Function and Bioinformatics</i> , 2014, 82, 794-814.	2.6	21
30	Insights into the Structure, Correlated Motions, and Electrostatic Properties of Two HIV-1 gp120 V3 Loops. <i>PLoS ONE</i> , 2012, 7, e49925.	2.5	20
31	A novel amyloid designable scaffold and potential inhibitor inspired by <sc>GAILG</sc> of amyloid beta and the <sc>HIV</sc>-V3 loop. <i>FEBS Letters</i> , 2018, 592, 1777-1788.	2.8	18
32	Designer Amyloid Cell-Penetrating Peptides for Potential Use as Gene Transfer Vehicles. <i>Biomolecules</i> , 2020, 10, 7.	4.0	18
33	Combination of Theoretical and Experimental Approaches for the Design and Study of Fibril-Forming Peptides. <i>Methods in Molecular Biology</i> , 2014, 1216, 53-70.	0.9	18
34	Amyloid-like self-assembly of a dodecapeptide sequence from the adenovirus fiber shaft: Perspectives from molecular dynamics simulations. <i>Journal of Non-Crystalline Solids</i> , 2011, 357, 717-722.	3.1	17
35	New Compstatin Peptides Containing N-Terminal Extensions and Non-Natural Amino Acids Exhibit Potent Complement Inhibition and Improved Solubility Characteristics. <i>Journal of Medicinal Chemistry</i> , 2015, 58, 814-826.	6.4	17
36	Virtual Screening of Chemical Compounds for Discovery of Complement C3 Ligands. <i>ACS Omega</i> , 2018, 3, 6427-6438.	3.5	15

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37	Princeton_<sc>TIGRESS</sc> 2.0: High refinement consistency and net gains through support vector machines and molecular dynamics in double-blind predictions during the <sc>CASP</sc>11 experiment. <i>Proteins: Structure, Function and Bioinformatics</i> , 2017, 85, 1078-1098.	2.6	14
38	Computational design of amyloid self-assembling peptides bearing aromatic residues and the cell adhesive motif Arg-Gly-Asp. <i>Molecular Systems Design and Engineering</i> , 2017, 2, 321-335.	3.4	14
39	Elucidating the multi-targeted anti-amyloid activity and enhanced islet amyloid polypeptide binding of β 2-wrapins. <i>Computers and Chemical Engineering</i> , 2018, 116, 322-332.	3.8	13
40	Development and characterization of chlorophyll-amended montmorillonite clays for the adsorption and detoxification of benzene. <i>Water Research</i> , 2022, 221, 118788.	11.3	13
41	Computational Design of Functional Amyloid Materials with Cesium Binding, Deposition, and Capture Properties. <i>Journal of Physical Chemistry B</i> , 2018, 122, 7555-7568.	2.6	12
42	Molecular Mechanism for Attractant Signaling to DHMA by E.Âcoli Tsr. <i>Biophysical Journal</i> , 2020, 118, 492-504.	0.5	12
43	Insights into the interactions of bisphenol and phthalate compounds with unamended and carnitine-amended montmorillonite clays. <i>Computers and Chemical Engineering</i> , 2020, 143, 107063.	3.8	12
44	Self-Assembled Peptide Nano-Superstructure towards Enzyme Mimicking Hydrolysis. <i>Angewandte Chemie</i> , 2021, 133, 17301-17307.	2.0	12
45	Activation of COUP-TFI by a Novel Diindolymethane Derivative. <i>Cells</i> , 2019, 8, 220.	4.1	10
46	Modification of a Single Atom Affects the Physical Properties of Double Fluorinated Fmoc-Phe Derivatives. <i>International Journal of Molecular Sciences</i> , 2021, 22, 9634.	4.1	9
47	A high-throughput and rapid computational method for screening of RNA post-transcriptional modifications that can be recognized by target proteins. <i>Methods</i> , 2018, 143, 34-47.	3.8	8
48	Computational evolution of an RNA-binding protein towards enhanced oxidized-RNA binding. <i>Computational and Structural Biotechnology Journal</i> , 2020, 18, 137-152.	4.1	8
49	Ecotoxic effects of paclitaxel-loaded nanotherapeutics on freshwater algae, <i>Raphidocelis subcapitata</i> and <i>Chlamydomonas reinhardtii</i> . <i>Environmental Science: Nano</i> , 2017, 4, 1077-1085.	4.3	7
50	Combining Experimental Isotherms, Minimalistic Simulations, and a Model to Understand and Predict Chemical Adsorption onto Montmorillonite Clays. <i>ACS Omega</i> , 2021, 6, 14090-14103.	3.5	7
51	Amyloid Peptide Scaffolds Coordinate with Alzheimer's Disease Drugs. <i>Journal of Physical Chemistry B</i> , 2020, 124, 487-503.	2.6	5
52	Molecular Modeling of Chemoreceptor:Ligand Interactions. <i>Methods in Molecular Biology</i> , 2018, 1729, 353-372.	0.9	4
53	EDTA-mimicking amino acid-metal ion coordination for multifunctional packings. <i>Journal of Materials Chemistry A</i> , 2021, 9, 20385-20394.	10.3	4
54	Computational and Experimental Protocols to Study Cyclo-dihistidine Self- and Co-assembly: Minimalistic Bio-assemblies with Enhanced Fluorescence and Drug Encapsulation Properties. <i>Methods in Molecular Biology</i> , 2022, 2405, 179-203.	0.9	3

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55	Self-Assembling Amyloid Sequences as Scaffolds for Material Design: A Case Study of Building Blocks Inspired From the Adenovirus Fiber Protein. <i>Macromolecular Symposia</i> , 2019, 386, 1900005.	0.7	2
56	Hydroxylated Chalcones as Aryl Hydrocarbon Receptor Agonists: Structure-Activity Effects. <i>Toxicological Sciences</i> , 2021, 180, 148-159.	3.1	2
57	Exploring Protein-Protein and Protein-Ligand Interactions in the Immune System using Molecular Dynamics and Continuum Electrostatics. <i>Current Physical Chemistry</i> , 2012, 2, 324-343.	0.2	2
58	Computational design of a β -wrapin's N-terminal domain with canonical and non-canonical amino acid modifications mimicking curcumin's proposed inhibitory function. <i>Biophysical Chemistry</i> , 2022, 286, 106805.	2.8	1
59	O ₂ : BETA-WRAPIN PROTEINS SEQUESTERING AMYLOID PROTEINS INVOLVED IN ALZHEIMER'S DISEASE: UNDERSTANDING THEIR FUNCTION AND DESIGNING NOVEL, IMPROVED BETA-WRAPINS AS POTENTIAL THERAPEUTICS. <i>Alzheimer's and Dementia</i> , 2018, 14, P611.	0.8	0