

# Chrystal D Bruce

## List of Publications by Year in descending order

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19  
papers

775  
citations

840776

11  
h-index

752698

20  
g-index

20  
all docs

20  
docs citations

20  
times ranked

846  
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular Dynamics Simulation of Sodium Dodecyl Sulfate Micelle in Water: Micellar Structural Characteristics and Counterion Distribution. <i>Journal of Physical Chemistry B</i> , 2002, 106, 3788-3793.	2.6	334
2	Molecular Dynamics Simulations of Sodium Dodecyl Sulfate Micelle in Water: The Behavior of Water. <i>Journal of Physical Chemistry B</i> , 2002, 106, 10902-10907.	2.6	173
3	Physical and Structural Basis for the Strong Interactions of the -ImPy- Central Pairing Motif in the Polyamide f-ImPylm. <i>Biochemistry</i> , 2006, 45, 13551-13565.	2.5	71
4	Water Mediation Is Essential to Nucleation of $\beta$ -Turn Formation in Peptide Folding Motifs. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 13091-13095.	13.8	29
5	Hx, a Novel Fluorescent, Minor Groove and Sequence Specific Recognition Element: Design, Synthesis, and DNA Binding Properties of p-Anisylbenzimidazole-imidazole/pyrrole-Containing Polyamides. <i>Biochemistry</i> , 2011, 50, 3127-3136.	2.5	26
6	On the structure of water and chloride ion interactions with a peptide backbone in solution. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 21023.	2.8	21
7	The Correlation of Physical Properties of Organic Molecules with Computed Molecular Surface Areas. <i>Journal of Chemical Education</i> , 1999, 76, 688.	2.3	17
8	Sequence specific and high affinity recognition of 5'-ACGCGT-3' by rationally designed pyrrole-imidazole H-pin polyamides: Thermodynamic and structural studies. <i>Bioorganic and Medicinal Chemistry</i> , 2008, 16, 9145-9153.	3.0	17
9	Molecular dynamics simulations of apo and holo forms of fatty acid binding protein 5 and cellular retinoic acid binding protein II reveal highly mobile protein, retinoic acid ligand, and water molecules. <i>Journal of Biomolecular Structure and Dynamics</i> , 2018, 36, 1893-1907.	3.5	17
10	Modifying the N-terminus of polyamides: PylmPylm has improved sequence specificity over f-ImPylm. <i>Bioorganic and Medicinal Chemistry</i> , 2008, 16, 5266-5276.	3.0	16
11	AzaHx, a novel fluorescent, DNA minor groove and G-C recognition element: Synthesis and DNA binding properties of a p-anisyl-4-aza-benzimidazole-pyrrole-imidazole (azaHx-PI) polyamide. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2015, 25, 3681-3685.	2.2	13
12	Two-Surface Virial Analysis of Alkane Adsorption on Carbopack C with and without Hydrogen Treatment. <i>Journal of Colloid and Interface Science</i> , 1997, 194, 448-454.	9.4	10
13	Beyond the Syllabus: Using the First Day of Class in Physical Chemistry as an Introduction to the Development of Macroscopic, Molecular-Level, and Mathematical Models. <i>Journal of Chemical Education</i> , 2013, 90, 1180-1185.	2.3	7
14	Controlling the radical 5-exo-trig cyclization, and selective synthesis of seco-iso-cyclopropylfurano[e]indoline (seco-iso-CFI) and seco-cyclopropylthiophene[e]indoline (seco-CTI) DNA alkylating subunit of the duocarmycins. <i>Tetrahedron Letters</i> , 2013, 54, 4756-4759.	1.4	5
15	Factors affecting the number and type of student research products for chemistry and physics students at primarily undergraduate institutions: A case study. <i>PLoS ONE</i> , 2018, 13, e0196338.	2.5	5
16	Kitchen Chemistry (Ted Lister, with Heston Blumenthal). <i>Journal of Chemical Education</i> , 2007, 84, 41.	2.3	3
17	Conversation among Physical Chemists: Strategies and Resources for Remote Teaching and Learning Catalyzed by a Global Pandemic. <i>Journal of Chemical Education</i> , 2021, 98, 2228-2235.	2.3	3
18	The Value of Peer Mentoring Networks for Developing Leaders and Inspiring Change. <i>Journal of Chemical Information and Modeling</i> , 2022, 62, 6292-6296.	5.4	3

#	ARTICLE	IF	CITATIONS
19	Dynamic hydrogen bonding and DNA flexibility in minor groove binders: molecular dynamics simulation of the polyamide $\epsilon$ -Pylm bound to the Mlu1 (MCB) sequence 5'-ACGCCT-3' in 2:1 motif. <i>Journal of Molecular Recognition</i> , 2015, 28, 325-337.		1