Paul A Craig

List of Publications by Year
in descending order

55 papers	598 citations	687363 13 h-index	610901 24 g-index
57 all docs	57 docs citations	57 times ranked	773 citing authors

#	Article	IF	Citations
1	Isolation of human blood coagulation Î±-factor Xa by soybean trypsin inhibitor-Sepharose chromatography and its active-site titration with fluorescein mono-p-guanidinobenzoate. Archives of Biochemistry and Biophysics, 1989, 273, 375-388.	3.0	100
2	A survey of educational uses of molecular visualization freeware. Biochemistry and Molecular Biology Education, 2013, 41, 193-205.	1.2	53
3	An expanded framework for biomolecular visualization in the classroom: Learning goals and competencies. Biochemistry and Molecular Biology Education, 2017, 45, 69-75.	1.2	47
4	EZ-Viz, a tool for simplifying molecular viewing in PyMOL. Biochemistry and Molecular Biology Education, 2006, 34, 402-407.	1.2	46
5	A Project-Oriented Biochemistry Laboratory Course. Journal of Chemical Education, 1999, 76, 1130.	2.3	34
6	BioVR: a platform for virtual reality assisted biological data integration and visualization. BMC Bioinformatics, 2019, 20, 78.	2.6	33
7	Evolution of the ‹scp›SARSâ€CoV‹/scp›â€2 proteome in three dimensions (3D) during the first 6 months of the ‹scp›COVID‹/scp›â€19 pandemic. Proteins: Structure, Function and Bioinformatics, 2022, 90, 1054-1080.	2.6	31
8	L-Threonine dehydrogenase from Escherichia coli K-12: thiol-dependent activation by manganese(2+). Biochemistry, 1986, 25, 1870-1876.	2.5	24
9	Lessons from my undergraduate research students. Journal of Biological Chemistry, 2018, 293, 10447-10452.	3.4	24
10	A survey on faculty perspectives on the transition to a biochemistry courseâ€based undergraduate research experience laboratory. Biochemistry and Molecular Biology Education, 2017, 45, 426-436.	1.2	21
11	Flexible Implementation of the BASIL CURE. Biochemistry and Molecular Biology Education, 2019, 47, 498-505.	1.2	17
12	Methods of Simplified Saliva Collection for the Measurement of Drugs of Abuse, Therapeutic Drugs, and Other Molecules. Annals of the New York Academy of Sciences, 1993, 694, 311-313.	3.8	16
13	Annotation of proteins of unknown function: initial enzyme results. Journal of Structural and Functional Genomics, 2015, 16, 43-54.	1.2	16
14	Kinetics of Heparin Action. Annals of the New York Academy of Sciences, 1989, 556, 75-80.	3.8	14
15	Responses to the COVID-19 Pandemic by the Biochemistry Authentic Scientific Inquiry Lab (BASIL) CURE Consortium: Reflections and a Case Study on the Switch to Remote Learning. Journal of Chemical Education, 2020, 97, 3455-3462.	2.3	14
16	Simulation of two dimensional electrophoresis and tandem mass spectrometry for teaching proteomics. Biochemistry and Molecular Biology Education, 2012, 40, 393-399.	1.2	13
17	Estimation of protein function using template-based alignment of enzyme active sites. BMC Bioinformatics, 2014, 15, 87.	2.6	11
18	Introducing proteomics in the undergraduate curriculum: A simple 2D gel electrophoresis exercise with serum proteins. Biochemistry and Molecular Biology Education, 2010, 38, 29-34.	1.2	9

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19	Efficient molecular surface rendering by linear-time pseudo-Gaussian approximation to Lee–Richards surfaces (PGALRS). Journal of Applied Crystallography, 2010, 43, 356-361.	4.5	9
20	Design and Implementation of a Self-Directed Stereochemistry Lesson Using Embedded Virtual Three-Dimensional Images in a Portable Document Format. Journal of Chemical Education, 2012, 89, 29-33.	2.3	9
21	Automated protein motif generation in the structure-based protein function prediction tool ProMOL. Journal of Structural and Functional Genomics, 2015, 16, 101-111.	1.2	8
22	Conscript: RasMol to PyMOL script converter. Biochemistry and Molecular Biology Education, 2010, 38, 419-422.	1.2	5
23	Virtual Boot Camp: <scp>COVID</scp>â€19 evolution and structural biology. Biochemistry and Molecular Biology Education, 2020, 48, 511-513.	1.2	5
24	Nucleic acids: Sequences and topology. Current Opinion in Structural Biology, 2002, 12, 279-280.	5.7	3
25	Developing and applying computational resources for biochemistry education. Biochemistry and Molecular Biology Education, 2020, 48, 579-584.	1.2	3
26	Protein Function Prediction Using ProMOL and PyMOL. FASEB Journal, 2015, 29, 722.5.	0.5	3
27	Publishing your educational research. Biochemistry and Molecular Biology Education, 2020, 48, 643-645.	1.2	2
28	BioMoleculesAlive.org: The biochemistry and molecular biology digital library update. Biochemistry and Molecular Biology Education, 2003, 31, 151-152.	1.2	1
29	Using PyMOL's Align Feature to Create a Database of Ligand Binding Site Files for the Structural Analysis of Proteins.. FASEB Journal, 2007, 21, A296.	0.5	1
30	Development and Testing of a Systematic Approach for Computational Enzyme Function Determination. FASEB Journal, 2013, 27, 811.1.	0.5	1
31	Role of undergraduate biochemistry education in protein function assignment (618.26). FASEB Journal, 2014, 28, 618.26.	0.5	1
32	Functional Characterization of NUDIX Hydrolases. FASEB Journal, 2018, 32, 796.16.	0.5	1
33	Something old, something new: Teaching the BMB lab. Biochemistry and Molecular Biology Education, 2020, 48, 640-642.	1.2	1
34	ROLE OF THE HIGH-AFFINITY PENTASACCHARIDE IN HEPARIN ACCELERATION OF ANTITHROMBIN III INHIBITION OF THROMBIN AND FACTOR Xa. Thrombosis and Haemostasis, 1987, 58, 0030.	3.4	0
35	Catalysis and regulation Proteins. Current Opinion in Structural Biology, 2001, 11, 653-654.	5.7	0
36	Theory and simulation Macromolecular assemblages. Current Opinion in Structural Biology, 2002, 12, 141-142.	5.7	0

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37	BioMoleculesAlive.org: The biochemistry and molecular biology digital library. Biochemistry and Molecular Biology Education, 2003, 31, 73-74.	1.2	0
38	Biochemistry <scp>CURE</scp> lab survey. Biochemistry and Molecular Biology Education, 2018, 46, 305-305.	1.2	0
39	Laboratory classes in biochemistry and molecular biology: A parallel session at the IUBMB / PSBMB 2019 â€œHarnessing Interdisciplinary Education in Biochemistry and Molecular Biologyâ€•conference. Biochemistry and Molecular Biology Education, 2020, 48, 615-618.	1.2	0
40	Publishing in education: A parallel session at the <scp>IUBMB</scp>/<scp>PSBMB</scp> 2019 â€œHarnessing Interdisciplinary Education in Biochemistry and Molecular Biologyâ€•conference. Biochemistry and Molecular Biology Education, 2020, 48, 635-639.	1.2	0
41	BASIL: A biochemistry laboratory CURE with flexibility across learning modalities. FASEB Journal, 2021, 35, .	0.5	0
42	Using PyMOL's Selection Algebra for Enzyme Catalytic Site Prediction. FASEB Journal, 2007, 21, .	0.5	0
43	Investigation of the effects of 2â€naphthylamine on the protein expression of Pseudomonas putida KT2440. FASEB Journal, 2008, 22, 618.1.	0.5	0
44	Executing RasMol Scripts in PyMOL. FASEB Journal, 2008, 22, 659.1.	0.5	0
45	Educational Uses of Molecular Visualization. FASEB Journal, 2012, 26, 106.1.	0.5	0
46	A 2DEâ€Tandem MS Simulation with a Structural Interface. FASEB Journal, 2013, 27, 612.2.	0.5	0
47	Automated Generation of Motif Templates in Protein Function Prediction Software ProMOL. FASEB Journal, 2013, 27, 811.2.	0.5	0
48	Using ProMol to Study Zinc Finger Motifs. FASEB Journal, 2015, 29, 567.20.	0.5	0
49	Improving function assignment for metalloenzymes through active site alignment using ProMOL/PyMOL. FASEB Journal, 2015, 29, 567.11.	0.5	0
50	Distributed computing approach to in silico protein function prediction using ProMOL. FASEB Journal, 2015, 29, 567.12.	0.5	0
51	A Redesigned Undergraduate Biochemistry Lab. FASEB Journal, 2016, 30, 880.8.	0.5	0
52	Increasing Research Opportunities for Deaf and Hardâ€ofâ€Hearing Students. FASEB Journal, 2019, 33, 456.1.	0.5	0
53	An Enhanced 1D Electrophoresis Simulation with Pedagogical Tools. FASEB Journal, 2022, 36, .	0.5	0
54	You gotta work, BASIL! Reimagining an established CURE to provide highâ€quality digital learning experiences that are intentionally equitable, inclusive and accessible for all students. FASEB Journal, 2022, 36, .	0.5	0

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55	Navigating as a Deaf and Hard of Hearing Undergraduate in Research Laboratories: Barriers and Inclusion. FASEB Journal, 2022, 36, .	0.5	0