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List of Publications by Year in descending order

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Version: 2024-02-01

55
papers

598
citations

687363

13
h-index

610901

24
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57
all docs

57
docs citations

57
times ranked

773
citing authors

#	ARTICLE	IF	CITATIONS
1	Evolution of the <sc>SARSâ€CoV</sc>â€2 proteome in three dimensions (3D) during the first 6 months of the <sc>COVID</sc>â€19 pandemic. Proteins: Structure, Function and Bioinformatics, 2022, 90, 1054-1080.	2.6	31
2	An Enhanced 1D Electrophoresis Simulation with Pedagogical Tools. FASEB Journal, 2022, 36, .	0.5	0
3	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
4	Navigating as a Deaf and Hard of Hearing Undergraduate in Research Laboratories: Barriers and Inclusion. FASEB Journal, 2022, 36, .	0.5	0
5	BASIL: A biochemistry laboratory CURE with flexibility across learning modalities. FASEB Journal, 2021, 35, .	0.5	0
6	Laboratory classes in biochemistry and molecular biology: A parallel session at the IUBMB / PSBMB 2019 â€Harnessing Interdisciplinary Education in Biochemistry and Molecular Biologyâ€conference. Biochemistry and Molecular Biology Education, 2020, 48, 615-618.	1.2	0
7	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
8	Virtual Boot Camp: <sc>COVID</sc>â€19 evolution and structural biology. Biochemistry and Molecular Biology Education, 2020, 48, 511-513.	1.2	5
9	Publishing in education: A parallel session at the <sc>IUBMB</sc>/<sc>PSBMB</sc> 2019 â€Harnessing Interdisciplinary Education in Biochemistry and Molecular Biologyâ€conference. Biochemistry and Molecular Biology Education, 2020, 48, 635-639.	1.2	0
10	Publishing your educational research. Biochemistry and Molecular Biology Education, 2020, 48, 643-645.	1.2	2
11	Developing and applying computational resources for biochemistry education. Biochemistry and Molecular Biology Education, 2020, 48, 579-584.	1.2	3
12	Something old, something new: Teaching the BMB lab. Biochemistry and Molecular Biology Education, 2020, 48, 640-642.	1.2	1
13	Flexible Implementation of the BASIL CURE. Biochemistry and Molecular Biology Education, 2019, 47, 498-505.	1.2	17
14	BioVR: a platform for virtual reality assisted biological data integration and visualization. BMC Bioinformatics, 2019, 20, 78.	2.6	33
15	Increasing Research Opportunities for Deaf and Hardâ€ofâ€Hearing Students. FASEB Journal, 2019, 33, 456.1.	0.5	0
16	Biochemistry <sc>CURE</sc> lab survey. Biochemistry and Molecular Biology Education, 2018, 46, 305-305.	1.2	0
17	Lessons from my undergraduate research students. Journal of Biological Chemistry, 2018, 293, 10447-10452.	3.4	24
18	Functional Characterization of NUDIX Hydrolases. FASEB Journal, 2018, 32, 796.16.	0.5	1

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19	An expanded framework for biomolecular visualization in the classroom: Learning goals and competencies. <i>Biochemistry and Molecular Biology Education</i> , 2017, 45, 69-75.	1.2	47
20	A survey on faculty perspectives on the transition to a biochemistry course-based undergraduate research experience laboratory. <i>Biochemistry and Molecular Biology Education</i> , 2017, 45, 426-436.	1.2	21
21	A Redesigned Undergraduate Biochemistry Lab. <i>FASEB Journal</i> , 2016, 30, 880.8.	0.5	0
22	Automated protein motif generation in the structure-based protein function prediction tool ProMOL. <i>Journal of Structural and Functional Genomics</i> , 2015, 16, 101-111.	1.2	8
23	Annotation of proteins of unknown function: initial enzyme results. <i>Journal of Structural and Functional Genomics</i> , 2015, 16, 43-54.	1.2	16
24	Using ProMol to Study Zinc Finger Motifs. <i>FASEB Journal</i> , 2015, 29, 567.20.	0.5	0
25	Protein Function Prediction Using ProMOL and PyMOL. <i>FASEB Journal</i> , 2015, 29, 722.5.	0.5	3
26	Improving function assignment for metalloenzymes through active site alignment using ProMOL/PyMOL. <i>FASEB Journal</i> , 2015, 29, 567.11.	0.5	0
27	Distributed computing approach to in silico protein function prediction using ProMOL. <i>FASEB Journal</i> , 2015, 29, 567.12.	0.5	0
28	Estimation of protein function using template-based alignment of enzyme active sites. <i>BMC Bioinformatics</i> , 2014, 15, 87.	2.6	11
29	Role of undergraduate biochemistry education in protein function assignment (618.26). <i>FASEB Journal</i> , 2014, 28, 618.26.	0.5	1
30	A survey of educational uses of molecular visualization freeware. <i>Biochemistry and Molecular Biology Education</i> , 2013, 41, 193-205.	1.2	53
31	A 2DE Tandem MS Simulation with a Structural Interface. <i>FASEB Journal</i> , 2013, 27, 612.2.	0.5	0
32	Automated Generation of Motif Templates in Protein Function Prediction Software ProMOL. <i>FASEB Journal</i> , 2013, 27, 811.2.	0.5	0
33	Development and Testing of a Systematic Approach for Computational Enzyme Function Determination. <i>FASEB Journal</i> , 2013, 27, 811.1.	0.5	1
34	Simulation of two dimensional electrophoresis and tandem mass spectrometry for teaching proteomics. <i>Biochemistry and Molecular Biology Education</i> , 2012, 40, 393-399.	1.2	13
35	Design and Implementation of a Self-Directed Stereochemistry Lesson Using Embedded Virtual Three-Dimensional Images in a Portable Document Format. <i>Journal of Chemical Education</i> , 2012, 89, 29-33.	2.3	9
36	Educational Uses of Molecular Visualization. <i>FASEB Journal</i> , 2012, 26, 106.1.	0.5	0

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37	Introducing proteomics in the undergraduate curriculum: A simple 2D gel electrophoresis exercise with serum proteins. <i>Biochemistry and Molecular Biology Education</i> , 2010, 38, 29-34.	1.2	9
38	Conscript: RasMol to PyMOL script converter. <i>Biochemistry and Molecular Biology Education</i> , 2010, 38, 419-422.	1.2	5
39	Efficient molecular surface rendering by linear-time pseudo-Gaussian approximation to Lee's Richards surfaces (PGALRS). <i>Journal of Applied Crystallography</i> , 2010, 43, 356-361.	4.5	9
40	Investigation of the effects of 2-aminonaphthylamine on the protein expression of <i>Pseudomonas putida</i> KT2440. <i>FASEB Journal</i> , 2008, 22, 618.1.	0.5	0
41	Executing RasMol Scripts in PyMOL. <i>FASEB Journal</i> , 2008, 22, 659.1.	0.5	0
42	Using PyMOL's Align Feature to Create a Database of Ligand Binding Site Files for the Structural Analysis of Proteins.. <i>FASEB Journal</i> , 2007, 21, A296.	0.5	1
43	Using PyMOL's Selection Algebra for Enzyme Catalytic Site Prediction. <i>FASEB Journal</i> , 2007, 21, .	0.5	0
44	EZ-Viz, a tool for simplifying molecular viewing in PyMOL. <i>Biochemistry and Molecular Biology Education</i> , 2006, 34, 402-407.	1.2	46
45	BioMoleculesAlive.org: The biochemistry and molecular biology digital library. <i>Biochemistry and Molecular Biology Education</i> , 2003, 31, 73-74.	1.2	0
46	BioMoleculesAlive.org: The biochemistry and molecular biology digital library update. <i>Biochemistry and Molecular Biology Education</i> , 2003, 31, 151-152.	1.2	1
47	Theory and simulation Macromolecular assemblages. <i>Current Opinion in Structural Biology</i> , 2002, 12, 141-142.	5.7	0
48	Nucleic acids: Sequences and topology. <i>Current Opinion in Structural Biology</i> , 2002, 12, 279-280.	5.7	3
49	Catalysis and regulation Proteins. <i>Current Opinion in Structural Biology</i> , 2001, 11, 653-654.	5.7	0
50	A Project-Oriented Biochemistry Laboratory Course. <i>Journal of Chemical Education</i> , 1999, 76, 1130.	2.3	34
51	Methods of Simplified Saliva Collection for the Measurement of Drugs of Abuse, Therapeutic Drugs, and Other Molecules. <i>Annals of the New York Academy of Sciences</i> , 1993, 694, 311-313.	3.8	16
52	Kinetics of Heparin Action. <i>Annals of the New York Academy of Sciences</i> , 1989, 556, 75-80.	3.8	14
53	Isolation of human blood coagulation α_2 -factor Xa by soybean trypsin inhibitor-Sepharose chromatography and its active-site titration with fluorescein mono-p-guanidinobenzoate. <i>Archives of Biochemistry and Biophysics</i> , 1989, 273, 375-388.	3.0	100
54	ROLE OF THE HIGH-AFFINITY PENTASACCHARIDE IN HEPARIN ACCELERATION OF ANTITHROMBIN III INHIBITION OF THROMBIN AND FACTOR Xa. <i>Thrombosis and Haemostasis</i> , 1987, 58, 0030.	3.4	0

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55	L-Threonine dehydrogenase from Escherichia coli K-12: thiol-dependent activation by manganese(2+). Biochemistry, 1986, 25, 1870-1876.	2.5	24