Tara Pukala

List of Publications by Year
in descending order

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72	2,276	279798 23	233421 45
papers	citations	h-index	g-index

78	78	78	3368
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Structural and mechanistic insights into amyloidâ€Î² and Î±â€synuclein fibril formation and polyphenol inhibitor efficacy in phospholipid bilayers. FEBS Journal, 2022, 289, 215-230.	4.7	16
2	Structural insights into the antifungal drug target guanosine monophosphate synthase from Aspergillus fumigatus. Acta Crystallographica Section D: Structural Biology, 2022, 78, 248-259.	2.3	2
3	A novel bat pollination system involving obligate flower corolla removal has implications for global Dillenia conservation. PLoS ONE, 2022, 17, e0262985.	2.5	1
4	A structural model of the human plasminogen and Aspergillus fumigatus enolase complex. Proteins: Structure, Function and Bioinformatics, 2022, 90, 1509-1520.	2.6	0
5	The Unusual Metalloprotease-Rich Venom Proteome of the Australian Elapid Snake Hoplocephalus stephensii. Toxins, 2022, 14, 314.	3.4	2
6	Introduction: Mass Spectrometry Applications in Structural Biology. Chemical Reviews, 2022, 122, 7267-7268.	47.7	4
7	Differential proteome analysis of the leaves of lead hyperaccumulator, <scp>Rhoeo discolor</scp> (L. Her.) Hance. Journal of Mass Spectrometry, 2021, 56, e4689.	1.6	5
8	Nucleoside selectivity of Aspergillus fumigatus nucleosideâ€diphosphate kinase. FEBS Journal, 2021, 288, 2398-2417.	4.7	6
9	Retro Dielsâ€“Alder Fragmentation of Fulveneâ€“Maleimide Bioconjugates for Mass Spectrometric Detection of Biomolecules. Analytical Chemistry, 2021, 93, 12204-12212.	6.5	3
10	Iminodiacetic acid (IDA)-generated mesoporous nanopolymer: a template to relate surface area, hydrophilicity, and glycopeptides enrichment. Mikrochimica Acta, 2021, 188, 417.	5.0	2
11	Investigating Toxin Diversity and Abundance in Snake Venom Proteomes. Frontiers in Pharmacology, 2021, 12, 768015.	3.5	38
12	Editorial: Technical and Methodological Advances in Proteomics. Frontiers in Chemistry, 2021, 9, 795426.	3.6	0
13	Fabrication of Piperazine Functionalized Polymeric Monolithic Tip for Rapid Enrichment of Glycopeptides/Glycans. Analytical Chemistry, 2020, 92, 683-689.	6.5	14
14	Biochemical characterisation of class III biotin protein ligases from Botrytis cinerea and Zymoseptoria tritici. Archives of Biochemistry and Biophysics, 2020, 691, 108509.	3.0	1
15	Conjugating immunoassays to mass spectrometry: Solutions to contemporary challenges in clinical diagnostics. TrAC - Trends in Analytical Chemistry, 2020, 132, 116064.	11.4	25
16	Ecklonia radiata extract containing eckol protects neuronal cells against AÎ²_{1â€“42} evoked toxicity and reduces aggregate density. Food and Function, 2020, 11, 6509-6516.	4.6	8
17	Polyphenol Honokiol and Flavone 2â€²,3â€²,4â€²-Trihydroxyflavone Differentially Interact with Î±-Synuclein at Distinct Phases of Aggregation. ACS Chemical Neuroscience, 2020, 11, 4469-4477.	3.5	14
18	Glycosylation heterogeneity and low abundant serum glycoproteins MS analysis by boronic acid immobilized Fe3O4@1,2-Epoxy-5-Hexene/DVB magnetic core shell nanoparticles. Microchemical Journal, 2020, 159, 105351.	4.5	5

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19	Comments on Proteomic Investigations of Two Pakistani Naja Snake Venoms Species Unravel the Venom Complexity, Posttranslational Modifications, and Presence of Extracellular Vesicles. Toxins 2020, 12, 669. Toxins, 2020, 12, 780.	3.4	2
20	Interrogating the higher order structures of snake venom proteins using an integrated mass spectrometric approach. Journal of Proteomics, 2020, 216, 103680.	2.4	19
21	Advanced Resistance Studies Identify Two Discrete Mechanisms in Staphylococcus aureus to Overcome Antibacterial Compounds that Target Biotin Protein Ligase. Antibiotics, 2020, 9, 165.	3.7	3
22	The molecular chaperone Î²-casein prevents amorphous and fibrillar aggregation of Î±-lactalbumin by stabilisation of dynamic disorder. Biochemical Journal, 2020, 477, 629-643.	3.7	18
23	Rationally designed peptide-based inhibitor of AÎ²42 fibril formation and toxicity: a potential therapeutic strategy for Alzheimer's disease. Biochemical Journal, 2020, 477, 2039-2054.	3.7	37
24	Fractional Deletion of Compound Kushen Injection Indicates Cytokine Signaling Pathways are Critical for its Perturbation of the Cell Cycle. Scientific Reports, 2019, 9, 14200.	3.3	10
25	First Community-Wide, Comparative Cross-Linking Mass Spectrometry Study. Analytical Chemistry, 2019, 91, 6953-6961.	6.5	100
26	Norbornene Probes for the Detection of Cysteine Sulfenic Acid in Cells. ACS Chemical Biology, 2019, 14, 594-598.	3.4	35
27	Native mass spectrometry identifies an alternative DNA-binding pathway for BirA from Staphylococcus aureus. Scientific Reports, 2019, 9, 2767.	3.3	4
28	Ion Mobility-Mass Spectrometry Reveals Details of Formation and Structure for GAAÂ·TCC DNA and RNA Triplexes. Journal of the American Society for Mass Spectrometry, 2019, 30, 103-112.	2.8	12
29	Meet the Associate Editors: Tara Pukala. Rapid Communications in Mass Spectrometry, 2019, 33, 20-21.	1.5	1
30	C-Phycocyanin from Spirulina Inhibits Î±-Synuclein and Amyloid-Î² Fibril Formation but Not Amorphous Aggregation. Journal of Natural Products, 2019, 82, 66-73.	3.0	25
31	Conditions for Analysis of Native Protein Structures Using Uniform Field Drift Tube Ion Mobility Mass Spectrometry and Characterization of Stable Calibrants for TWIM-MS. Journal of the American Society for Mass Spectrometry, 2019, 30, 256-267.	2.8	21
32	Importance of collision cross section measurements by ion mobility mass spectrometry in structural biology. Rapid Communications in Mass Spectrometry, 2019, 33, 72-82.	1.5	16
33	DNA triplex structure, thermodynamics, and destabilisation: insight from molecular simulations. Physical Chemistry Chemical Physics, 2018, 20, 14013-14023.	2.8	13
34	Norbornene probes for the study of cysteine oxidation. Tetrahedron, 2018, 74, 1220-1228.	1.9	32
35	Exploring the Structural Diversity in Inhibitors of Î±-Synuclein Amyloidogenic Folding, Aggregation, and Neurotoxicity. Frontiers in Chemistry, 2018, 6, 181.	3.6	22
36	Electron transfer ferredoxins with unusual cluster binding motifs support secondary metabolism in many bacteria. Chemical Science, 2018, 9, 7948-7957.	7.4	29

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37	PPARÎ³ in Complex with an Antagonist and Inverse Agonist: a Tumble and Trap Mechanism of the Activation Helix. IScience, 2018, 5, 69-79.	4.1	40
38	The Human Amyloid Precursor Protein Binds Copper Ions Dominated by a Picomolar-Affinity Site in the Helix-Rich E2 Domain. Biochemistry, 2018, 57, 4165-4176.	2.5	19
39	Mass Spectrometry: Mapping Large Stable Protein Complexes. , 2018, , 1-9.		0
40	The Amyloid Fibrilâ€Forming Properties of the Amphibian Antimicrobial Peptide Uperinâ€...3.5. ChemBioChem, 2016, 17, 239-246.	2.6	44
41	Bioactive polyphenol interactions with Î² amyloid: a comparison of binding modelling, effects on fibril and aggregate formation and neuroprotective capacity. Food and Function, 2016, 7, 1138-1146.	4.6	47
42	Ion Mobilityâ€"Mass Spectrometry-Based Screening for Inhibition of Î±-Synuclein Aggregation. European Journal of Mass Spectrometry, 2015, 21, 255-264.	1.0	20
43	Structural Analysis of Calmodulin Binding by nNOS Inhibitory Amphibian Peptides. Biochemistry, 2015, 54, 567-576.	2.5	6
44	Gallic acid interacts with Î±-synuclein to prevent the structural collapse necessary for its aggregation. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2014, 1844, 1481-1485.	2.3	95
45	Hemin as a generic and potent protein misfolding inhibitor. Biochemical and Biophysical Research Communications, 2014, 454, 295-300.	2.1	22
46	Chemical Cross-linking and Mass Spectrometry for the Structural Analysis of Protein Assemblies. Australian Journal of Chemistry, 2013, 66, 749.	0.9	16
47	Chemical Synthesis of a Fluorescent IGF-II Analogue. International Journal of Peptide Research and Therapeutics, 2013, 19, 61-69.	1.9	5
48	Negative ion fragmentations of disulfideâ€containing crossâ€linking reagents are competitive with aspartic acid sideâ€chainâ€induced cleavages. Rapid Communications in Mass Spectrometry, 2013, 27, 238-248.	1.5	6
49	Gallic acid is the major component of grape seed extract that inhibits amyloid fibril formation. Bioorganic and Medicinal Chemistry Letters, 2013, 23, 6336-6340.	2.2	104
50	Using a Fragmentâ€Based Approach To Target Proteinâ€"Protein Interactions. ChemBioChem, 2013, 14, 332-342.	2.6	115
51	Novel insights into protein misfolding diseases revealed by ion mobilityâ€mass spectrometry. Mass Spectrometry Reviews, 2013, 32, 169-187.	5.4	38
52	Characterisation of Calmodulin Structural Transitions by Ion Mobility Mass Spectrometry. Australian Journal of Chemistry, 2012, 65, 504.	0.9	7
53	Reduction of Copper(II) to Copper(I) in the Copper-Curcumin Complex Induces Decomposition of Curcumin. Australian Journal of Chemistry, 2012, 65, 490.	0.9	4
54	Utility of an improved model of amyloid-beta (AÎ²1-42) toxicity in Caenorhabditis elegans for drug screening for Alzheimerâ€™s disease. Molecular Neurodegeneration, 2012, 7, 57.	10.8	188

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55	A Negative Ion Mass Spectrometry Approach to Identify Cross-Linked Peptides Utilizing Characteristic Disulfide Fragmentations. Journal of the American Society for Mass Spectrometry, 2012, 23, 1364-1375.	2.8	15
56	AÎ²40 and AÎ²42 Amyloid Fibrils Exhibit Distinct Molecular Recycling Properties. Journal of the American Chemical Society, 2011, 133, 6505-6508.	13.7	93
57	Skin peptide and cDNA profiling of Australian anurans: Genus and species identification and evolutionary trends. Peptides, 2011, 32, 161-172.	2.4	24
58	Ion Mobility Mass Spectrometry Studies of the Inhibition of Alpha Synuclein Amyloid Fibril Formation by (-)-Epigallocatechin-3-Gallate. Australian Journal of Chemistry, 2011, 64, 36.	0.9	25
59	Histidineâ€containing hostâ€defence skin peptides of anurans bind Cu²⁺. An electrospray ionisation mass spectrometry and computational modelling study. Rapid Communications in Mass Spectrometry, 2011, 25, 1209-1221.	1.5	8
60	Mass Spectrometry for Structural Biology: Determining the Composition and Architecture of Protein Complexes. Australian Journal of Chemistry, 2011, 64, 681.	0.9	7
61	Subunit Architecture of Multiprotein Assemblies Determined Using Restraints from Gas-Phase Measurements. Structure, 2009, 17, 1235-1243.	3.3	99
62	Binding studies of nNOSâ€active amphibian peptides and Ca²⁺ calmodulin, using negative ion electrospray ionisation mass spectrometry. Rapid Communications in Mass Spectrometry, 2008, 22, 3501-3509.	1.5	17
63	Disulfide-containing peptides from the glandular skin secretions of froglets of the genus Crinia: Structure, activity and evolutionary trends. Regulatory Peptides, 2008, 151, 80-87.	1.9	11
64	Effect of Antimicrobial Peptides from Australian Tree Frogs on Anionic Phospholipid Membranes. Biochemistry, 2008, 47, 8557-8565.	2.5	83
65	Solution Structure and Interaction of Cupiennin 1a, a Spider Venom Peptide, with Phospholipid Bilayersâ€. Biochemistry, 2007, 46, 3576-3585.	2.5	48
66	Cupienninâ€ƒ1a, an antimicrobial peptide from the venom of the neotropical wandering spider Cupiennius salei, also inhibits the formation of nitric oxide by neuronal nitric oxide synthase. FEBS Journal, 2007, 274, 1778-1784.	4.7	23
67	Host-defence peptides from the glandular secretions of amphibians: structure and activity. Natural Product Reports, 2006, 23, 368.	10.3	176
68	1P344 Membrane perturbation by antimicrobial peptides from amphibian and arachnid species(12.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 2006, 46, S232.	0.1	0
69	Host-defence peptide profiles of the skin secretions of interspecific hybrid tree frogs and their parents, female Litoria splendida and male Litoria caerulea. FEBS Journal, 2006, 273, 3511-3519.	4.7	25
70	Host Defence Peptides from the Skin Glands of Australian Amphibians. Caerulein Neuropeptides and Antimicrobial, Anticancer, and nNOS Inhibiting Citropins from the Glandular Frog Litoria subglandulosa. Australian Journal of Chemistry, 2004, 57, 693.	0.9	6
71	Investigating the Importance of the Flexible Hinge in Caerin 1.1:â€‰ Solution Structures and Activity of Two Synthetically Modified Caerin Peptides. Biochemistry, 2004, 43, 937-944.	2.5	68
72	Host-defence peptides of Australian anurans: structure, mechanism of action and evolutionary significance. Peptides, 2004, 25, 1035-1054.	2.4	209