

Rohana Liyanage

List of Publications by Year in descending order

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76
papers

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218677

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2793
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#	ARTICLE	IF	CITATIONS
1	Ellagitannin Composition of Blackberry As Determined by HPLC-ESI-MS and MALDI-TOF-MS. <i>Journal of Agricultural and Food Chemistry</i> , 2008, 56, 661-669.	5.2	169
2	Potential Energy Surface for Activation of Methane by Pt+: A Combined Guided Ion Beam and DFT Study. <i>Journal of the American Chemical Society</i> , 2001, 123, 5563-5575.	13.7	163
3	Human cancer cell proliferation inhibition by a pentapeptide isolated and characterized from rice bran. <i>Peptides</i> , 2010, 31, 1629-1634.	2.4	132
4	Lipid compositions in <i>Escherichia coli</i> and <i>Bacillus subtilis</i> during growth as determined by MALDI-TOF and TOF/TOF mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 2009, 283, 178-184.	1.5	130
5	Electronic control of the spin-orbit branching ratio in the photodissociation and predissociation of HCl. <i>Journal of Chemical Physics</i> , 1995, 103, 6811-6814.	3.0	99
6	Problems with the "omics": TrAC - Trends in Analytical Chemistry, 2006, 25, 1046-1056.	11.4	99
7	Processing and Storage Effect on Berry Polyphenols: Challenges and Implications for Bioactive Properties. <i>Journal of Agricultural and Food Chemistry</i> , 2012, 60, 6678-6693.	5.2	91
8	Rapid characterization of edible oils by direct matrix-assisted laser desorption/ionization time-of-flight mass spectrometry analysis using triacylglycerols. <i>Rapid Communications in Mass Spectrometry</i> , 2006, 20, 952-958.	1.5	63
9	Reducing fragmentation observed in the matrix-assisted laser desorption/ionization time-of-flight mass spectrometric analysis of triacylglycerols in vegetable oils. <i>Rapid Communications in Mass Spectrometry</i> , 2007, 21, 1951-1957.	1.5	63
10	Activation of methane by size-selected iron cluster cations, $\text{Fe}_n^+(n=2-15)$: Cluster- CH_x ($x=0-3$) bond energies and reaction mechanisms. <i>Journal of Chemical Physics</i> , 2001, 115, 9747-9763.	3.0	59
11	Guided-Ion Beam and Theoretical Study of the Potential Energy Surface for Activation of Methane by W^+ . <i>Journal of Physical Chemistry A</i> , 2006, 110, 1242-1260.	2.5	55
12	Ionic liquid matrix-induced metastable decay of peptides and oligonucleotides and stabilization of phospholipids in MALDI FTMS analyses. <i>Journal of the American Society for Mass Spectrometry</i> , 2005, 16, 2000-2008.	2.8	47
13	Structures of Pahayokolides A and B, Cyclic Peptides from a <i>Lyngbya</i> sp.. <i>Journal of Natural Products</i> , 2007, 70, 730-735.	3.0	47
14	Trans-Cinnamaldehyde, Eugenol and Carvacrol Reduce <i>Campylobacter jejuni</i> Biofilms and Modulate Expression of Select Genes and Proteins. <i>Frontiers in Microbiology</i> , 2019, 10, 1837.	3.5	47
15	Chicken Egg Shell Membrane Associated Proteins and Peptides. <i>Journal of Agricultural and Food Chemistry</i> , 2015, 63, 9888-9898.	5.2	45
16	Guided ion beam studies of the reactions of $\text{Ni}_n^+(n=2-18)$ with O_2 : Nickel cluster oxide and dioxide bond energies. <i>Journal of Chemical Physics</i> , 2003, 119, 4166-4178.	3.0	42
17	A Comprehensive Assessment of the Genetic Determinants in <i>Salmonella Typhimurium</i> for Resistance to Hydrogen Peroxide Using Proteogenomics. <i>Scientific Reports</i> , 2017, 7, 17073.	3.3	36
18	Identification and quantification of glycoside flavonoids in the energy crop <i>Albizia julibrissin</i> . <i>Bioresource Technology</i> , 2007, 98, 429-435.	9.6	35

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19	Methane activation by nickel cluster cations, Ni _n ⁺ (n=2-16): Reaction mechanisms and thermochemistry of cluster-CH _x (x=0-3) complexes. <i>Journal of Chemical Physics</i> , 2004, 121, 10976.	3.0	34
20	Changes in polyphenolics during maturation of Java plum (<i>Syzygium cumini</i> Lam.). <i>Food Research International</i> , 2017, 100, 385-391.	6.2	34
21	Cold tolerance response mechanisms revealed through comparative analysis of gene and protein expression in multiple rice genotypes. <i>PLoS ONE</i> , 2019, 14, e0218019.	2.5	33
22	Guided ion beam studies of the reaction of Ni _n ⁺ (n=2-16) with D ₂ : Nickel cluster-deuteride bond energies. <i>Journal of Chemical Physics</i> , 2002, 117, 132-141.	3.0	30
23	Effect of thiram on avian growth plate chondrocytes in culture. <i>Journal of Toxicological Sciences</i> , 2013, 38, 93-101.	1.5	29
24	Diabatic analysis of the electronic states of hydrogen chloride. <i>Journal of Chemical Physics</i> , 1998, 109, 8374-8387.	3.0	28
25	Guided ion beam studies of the reactions of V _n ⁺ (n=2-13) with D ₂ : Cluster-deuteride bond energies as a chemical probe of cluster electronic structure. <i>Journal of Chemical Physics</i> , 2002, 116, 936-945.	3.0	28
26	Thermodynamics of ammonia activation by iron cluster cations: Guided ion beam studies of the reactions of Fe _n ⁺ (n=2-10,14) with ND ₃ . <i>Journal of Chemical Physics</i> , 2003, 119, 8979-8995.	3.0	28
27	Thermochemistry of small cationic iron-sulfur clusters. <i>Journal of Chemical Physics</i> , 2002, 117, 10039-10056.	3.0	27
28	Spin-orbit branching in the predissociation of the C [∞] 1 [∞] state of HCl and DCl: a manifestation of quantum interference. <i>Chemical Physics</i> , 1998, 231, 331-343.	1.9	25
29	Improved Fatty Acid Analysis of Conjugated Linoleic Acid Rich Egg Yolk Triacylglycerols and Phospholipid Species. <i>Journal of Agricultural and Food Chemistry</i> , 2014, 62, 6608-6615.	5.2	25
30	Ammonia activation by iron: state-specific reactions of Fe ⁺ (6D, 4F) with ND ₃ and the reaction of FeNH ⁺ with D ₂ . <i>International Journal of Mass Spectrometry</i> , 2005, 241, 243-260.	1.5	24
31	Proteomic analysis of <i>Salmonella enterica</i> serovar Enteritidis following propionate adaptation. <i>BMC Microbiology</i> , 2010, 10, 249.	3.3	23
32	Effects of Processing Methods on the Proximate Composition and Momordicosides K and L Content of Bitter Melon Vegetable. <i>Journal of Agricultural and Food Chemistry</i> , 2007, 55, 5827-5833.	5.2	22
33	A method to culture chicken enterocytes and their characterization. <i>Poultry Science</i> , 2018, 97, 4040-4047.	3.4	19
34	A secondary bile acid from microbiota metabolism attenuates ileitis and bile acid reduction in subclinical necrotic enteritis in chickens. <i>Journal of Animal Science and Biotechnology</i> , 2020, 11, 37.	5.3	19
35	Identification and Characterization of Thymosin beta-4 in Chicken Macrophages Using Whole Cell MALDI-TOF. <i>Annals of the New York Academy of Sciences</i> , 2007, 1112, 425-434.	3.8	18
36	Detection of DCl by multiphoton ionization and determination of DCl and HCl internal state distributions. <i>Journal of Chemical Physics</i> , 1996, 105, 10251-10262.	3.0	17

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37	Evaluation of beta defensin 2 production by chicken heterophils using direct MALDI mass spectrometry. <i>Molecular Immunology</i> , 2009, 46, 3151-3156.	2.2	17
38	Purification and characterization of a peptide from soybean with cancer cell proliferation inhibition. <i>Journal of Food Biochemistry</i> , 2017, 41, e12374.	2.9	17
39	Turgor-dependent and coronin-mediated F-actin dynamics drive septin disc-to-ring remodeling in the blast fungus <i>Magnaporthe oryzae</i> . <i>Journal of Cell Science</i> , 2021, 134, .	2.0	17
40	Ascorbic acid-catalyzed degradation of cyanidin-3-O- β -glucoside: Proposed mechanism and identification of a novel hydroxylated product. <i>Journal of Berry Research</i> , 2016, 6, 175-187.	1.4	16
41	Production and characterization of avian crypt-villus enteroids and the effect of chemicals. <i>BMC Veterinary Research</i> , 2020, 16, 179.	1.9	16
42	Serotonin modulates <i>Campylobacter jejuni</i> physiology and in vitro interaction with the gut epithelium. <i>Poultry Science</i> , 2021, 100, 100944.	3.4	15
43	Trapping of wide range mass-to-charge ions and dependence on matrix amount in internal source MALDI-FTMS. <i>Journal of the American Society for Mass Spectrometry</i> , 2005, 16, 1772-1780.	2.8	14
44	Effect of toll-like receptor activation on thymosin beta-4 production by chicken macrophages. <i>Molecular and Cellular Biochemistry</i> , 2010, 344, 55-63.	3.1	14
45	Evidence of the indirect predissociation of the F 1 st state of HCl. <i>Chemical Physics Letters</i> , 1993, 216, 544-550.	2.6	13
46	A semiclassical model of the angular distribution of the photofragments of predissociating molecules. <i>Journal of Chemical Physics</i> , 1997, 107, 7209-7213.	3.0	13
47	Proteomic Changes in the Plasma of Broiler Chickens with Femoral Head Necrosis. <i>Biomarker Insights</i> , 2016, 11, BML.S38291.	2.5	13
48	Probing the 3-D Structure, Dynamics, and Stability of Bacterial Collagenase Collagen Binding Domain (apo- versus holo-) by Limited Proteolysis MALDI-TOF MS. <i>Journal of the American Society for Mass Spectrometry</i> , 2012, 23, 505-519.	2.8	12
49	Phorbol 12-Myristate 13-Acetate-Induced Changes in Chicken Enterocytes. <i>Proteomics Insights</i> , 2019, 10, 117864181984036.	2.0	12
50	75-kDa glucose-regulated protein (GRP75) is a novel molecular signature for heat stress response in avian species. <i>American Journal of Physiology - Cell Physiology</i> , 2020, 318, C289-C303.	4.6	12
51	Proteomic Changes in Chicken Plasma Induced by <i>Salmonella typhimurium</i> Lipopolysaccharides. <i>Proteomics Insights</i> , 2016, 7, PRI.S31609.	2.0	10
52	The Arabidopsis Proteins AtNHR2A and AtNHR2B Are Multi-Functional Proteins Integrating Plant Immunity With Other Biological Processes. <i>Frontiers in Plant Science</i> , 2020, 11, 232.	3.6	9
53	Matrix-assisted ionization Fourier transform mass spectrometry for the analysis of lipids. <i>Rapid Communications in Mass Spectrometry</i> , 2021, 35, e8349.	1.5	9
54	Specific Secondary Bile Acids Control Chicken Necrotic Enteritis. <i>Pathogens</i> , 2021, 10, 1041.	2.8	9

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55	Comparison of two ESI-MS based H/D exchange methods for extracting protein folding energies. International Journal of Mass Spectrometry, 2009, 287, 96-104.	1.5	8
56	Rapid characterization of lipids by MALDI MS. Part 1: Bacterial taxonomy and analysis of food oils. Lipid Technology, 2012, 24, 11-14.	0.3	8
57	Sodium butyrate modulates chicken macrophage proteins essential for Salmonella Enteritidis invasion. PLoS ONE, 2021, 16, e0250296.	2.5	8
58	Theory of the protein equilibrium population snapshot by H/D exchange electrospray ionization mass spectrometry (PEPS-HDX-ESI-MS) method used to obtain protein folding energies/rates and selected supporting experimental evidence. International Journal of Mass Spectrometry, 2012, 330-332, 63-70.	1.5	7
59	Rapid characterization of lipids by MALDI MS. Part 2: Artifacts, ion suppression, and TLC MALDI imaging. Lipid Technology, 2012, 24, 36-40.	0.3	7
60	DNA aptamer-based rolling circle amplification product as a novel immunological adjuvant. Scientific Reports, 2020, 10, 22282.	3.3	7
61	Lipid interactions of acylated tryptophan-methylated lactoferricin peptides by solid-state NMR. Journal of Peptide Science, 2008, 14, 1103-1110.	1.4	6
62	Metal-free and benign approach for the synthesis of dihydro-5H-spiro[benzo[<i>c</i>]chromene-8,4'-oxazole]-5,6(7 <i>H</i>)-dione scaffolds as masked amino acids. Green Chemistry, 2019, 21, 2656-2661.		6
63	Microdialysis Sampling of Quorum Sensing Homoserine Lactones during Biofilm Formation. Analytical Chemistry, 2019, 91, 3964-3970.	6.5	6
64	An Introduction to MALDI-TOF MS. , 2006, , 39-60.		5
65	Dynamics of saxitoxin binding to saxiphilin c-lobe reveals conformational change. Toxicon, 2008, 51, 208-217.	1.6	5
66	Concurrent EPA and DHA Supplementation Impairs Brown Adipogenesis of C2C12 Cells. Frontiers in Genetics, 2020, 11, 531.	2.3	5
67	A unified model of the dynamics and spectroscopy of the $g^{\%31\%0}$ and $E^{\%1\%+}$ states of hydrogen chloride. Journal of Chemical Physics, 1998, 108, 984-989.	3.0	4
68	MALDI-TOF Mass Spectrometry of Intact Bacteria. , 2006, , 125-152.		4
69	Isolation and Characterization of Chicken Yolk Vitelline Membrane Lipids Using Eggs Enriched With Conjugated Linoleic Acid. Lipids, 2016, 51, 769-779.	1.7	4
70	Using MALDI MS for rapid analysis of food lipids. Lipid Technology, 2015, 27, 255-257.	0.3	3
71	THE DEVELOPMENT OF A HIGH-RESOLUTION MASS SPECTROMETRY METHOD FOR ULTRA-TRACE ANALYSIS OF CHLORINATED DIOXINS IN ENVIRONMENTAL AND BIOLOGICAL SAMPLES INCLUDING VIET NAM ERA VETERANS. Mass Spectrometry Reviews, 2021, 40, 236-254.	5.4	2
72	Formation, Tentative Mass Spectrometric Identification, and Color Stability of Acetaldehyde-Catalyzed Condensation of Red Radish (<i>Raphanus sativus</i>) Anthocyanins and (+) Catechin. Beverages, 2019, 5, 64.	2.8	1

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73	SERUM PEPTIDE CHANGES IN CHICKENS WITH METABOLIC SKELETAL PROBLEMS ASSOCIATED WITH LAMENESS. , 2011, , .		0
74	ESI-QIMS Investigation of Sr, Rb, and Crown Ether Mixture Solutions. Analytical Letters, 2011, 44, 2170-2181.	1.8	0
75	Thymosin $\hat{1}^{24}$ dynamics during chicken enteroid development. Molecular and Cellular Biochemistry, 2021, 476, 1303-1312.	3.1	0
76	SIZE-SPECIFIC REACTIONS OF IRON CLUSTER CATIONS WITH AMMONIA. , 2000, , .		0