Jeffrey E Plowman

List of Publications by Year
in descending order

71 papers	1,831 citations	236925 25 h-index	289244 40 g-index
71 all docs	71 docs citations	71 times ranked	1650 citing authors

#	Article	IF	Citations
1	Small molecule analogs for the specific iron-binding site of lactoferrin: a single-crystal x-ray structure of bis(methanol)bis[2-(5-methylpyrazol-3-yl)phenolato]iron(III) nitrate-methanol and spectroscopic studies on iron(III) phenolate complexes. Inorganic Chemistry, 1980, 19, 3655-3663.	4.0	95
2	Studies on human lactoferrin by electron paramagnetic resonance, fluorescence, and resonance Raman spectroscopy. Biochemistry, 1980, 19, 4072-4079.	2.5	94
3	Spectrochemical studies on the blue copper protein azurin from Alcaligenes denitrificans. Biochemistry, 1987, 26, 71-82.	2.5	90
4	The chromium, manganese, cobalt and copper complexes of human lactoferrin. Inorganica Chimica Acta, 1979, 33, 149-153.	2.4	82
5	Crystal and molecular structure of the (.mu.-oxo)bis[aquobis(phenanthroline)iron(III)] complex, a Raman spectroscopic model for the binuclear iron site in hemerythrin and ribonucleotide reductase. Inorganic Chemistry, 1984, 23, 3553-3559.	4.0	78
6	Micelle Stability: Îº-Casein Structure and Function. Journal of Dairy Science, 1998, 81, 3004-3012.	3.4	72
7	An Updated Nomenclature for Keratin-Associated Proteins (KAPs). International Journal of Biological Sciences, 2012, 8, 258-264.	6.4	68
8	Proteomic database of wool components. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2003, 787, 63-76.	2.3	63
9	An evaluation of a method to differentiate the species of origin of meats on the basis of the contents of anserine, balenine and carnosine in skeletal muscle. Journal of the Science of Food and Agriculture, 1988, 45, 69-78.	3.5	54
10	Characterisation of novel Î±â€keratin peptide markers for species identification in keratinous tissues using mass spectrometry. Rapid Communications in Mass Spectrometry, 2013, 27, 2685-2698.	1.5	46
11	The proteomics of keratin proteins. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2007, 849, 181-189.	2.3	45
12	Protein oxidation: identification and utilisation of molecular markers to differentiate singlet oxygen and hydroxyl radical-mediated oxidative pathways. Photochemical and Photobiological Sciences, 2013, 12, 1960-1967.	2.9	41
13	The Proteome of the Wool Cuticle. Journal of Proteome Research, 2010, 9, 2920-2928.	3.7	40
14	The differential expression of proteins in the cortical cells of wool and hair fibres. Experimental Dermatology, 2007, 16, 707-714.	2.9	38
15	Characterization of the exocuticle a-layer proteins of wool. Experimental Dermatology, 2007, 16, 951-960.	2.9	37
16	Influence of feed restriction on the wool proteome: A combined iTRAQ and fiber structural study. Journal of Proteomics, 2014, 103, 170-177.	2.4	37
17	Application of proteomics for determining protein markers for wool quality traits. Electrophoresis, 2000, 21, 1899-1906.	2.4	36
18	Developing the wool proteome. Journal of Proteomics, 2010, 73, 1722-1731.	2.4	36

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19	Modeling Deamidation in Sheep Î±-Keratin Peptides and Application to Archeological Wool Textiles. Analytical Chemistry, 2014, 86, 567-575.	6.5	35
20	Development of Hair Fibres. Advances in Experimental Medicine and Biology, 2018, 1054, 109-154.	1.6	35
21	The proteomics of wool fibre morphogenesis. Journal of Structural Biology, 2015, 191, 341-351.	2.8	34
22	Interspecies Comparison of Morphology, Ultrastructure, and Proteome of Mammalian Keratin Fibers of Similar Diameter. Journal of Agricultural and Food Chemistry, 2012, 60, 2434-2446.	5.2	31
23	Restrained molecular dynamics study of the interaction between bovine Îº-casein peptide 98â€"111 and bovine chymosin and porcine pepsin. Journal of Dairy Research, 1995, 62, 451-467.	1.4	29
24	The effect of oxidation or alkylation on the separation of wool keratin proteins by two-dimensional gel electrophoresis. Proteomics, 2003, 3, 942-950.	2.2	27
25	Problems Associated with the Identification of Proteins in Homologous Families: The Wool Keratin Family as a Case Study. Analytical Biochemistry, 2002, 300, 221-229.	2.4	26
26	Search for Variation in the Ovine KAP7-1 and KAP8-1 Genes Using Polymerase Chain Reactionâ€"Single-Stranded Conformational Polymorphism Screening. DNA and Cell Biology, 2012, 31, 367-370.	1.9	26
27	Small molecule analogues for the specific metal-binding site of lactoferrin. Part 2. Phenolato-complexes of copper(II) and the nature of the charge-transfer transition in the visible region. Journal of the Chemical Society Dalton Transactions, 1981, , 1701.	1.1	25
28	The high sulphur proteins of wool: Towards an understanding of sheep breed diversity. Proteomics, 2002, 2, 1240-1246.	2.2	25
29	Characterisation of low abundance wool proteins through novel differential extraction techniques. Electrophoresis, 2010, 31, 1937-1946.	2.4	25
30	Identification of the ovine keratin-associated protein KAP1-2 gene (KRTAP1-2). Experimental Dermatology, 2011, 20, 815-819.	2.9	24
31	Structure and siderophore activity of ferric schizokinen. Journal of Inorganic Biochemistry, 1984, 20, 183-197.	3.5	22
32	Isolation and Analysis of Keratins and Keratin-Associated Proteins from Hair and Wool. Methods in Enzymology, 2016, 568, 279-301.	1.0	22
33	A Multi-Bioassay Integrated Approach to Assess the Antifouling Potential of the Cyanobacterial Metabolites Portoamides. Marine Drugs, 2019, 17, 111.	4.6	22
34	Solution conformation of a peptide corresponding to bovine Îº-casein B residues 130â€"153 by circular dichroism spectroscopy and 1H-nuclear magnetic resonance spectroscopy. Journal of Dairy Research, 1997, 64, 377-397.	1.4	20
35	Protein Expression in Orthocortical and Paracortical Cells of Merino Wool Fibers. Journal of Agricultural and Food Chemistry, 2009, 57, 2174-2180.	5.2	20
36	Electrophoretic mapping of highly homologous keratins: A novel marker peptide approach. Electrophoresis, 2010, 31, 2894-2902.	2.4	20

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37	Unravelling the proteome of wool: Towards markers of wool quality traits. Journal of Proteomics, 2012, 75, 4315-4324.	2.4	20
38	Mapping the accessibility of the disulfide crosslink network in the wool fiber cortex. Proteins: Structure, Function and Bioinformatics, 2015, 83, 224-234.	2.6	18
39	Higher sequence coverage and improved confidence in the identification of cysteine-rich proteins from the wool cuticle using combined chemical and enzymatic digestion. Journal of Proteomics, 2009, 73, 323-330.	2.4	17
40	Emerging issues with the current keratin-associated protein nomenclature. International Journal of Trichology, 2010, 2, 104.	0.5	17
41	Analysis of variation in the ovine ultra-high sulphur keratin-associated protein KAP5-4 gene using PCR-SSCP technique. Electrophoresis, 2010, 31, 3545-3547.	2.4	16
42	Ionic liquid-assisted extraction of wool keratin proteins as an aid to MS identification. Analytical Methods, 2014, 6, 7305-7311.	2.7	16
43	Proton assignment and structural features of a peptide from the chymosin-sensitive region of bovinek-casein determined by 2D-NMR spectroscopy. Magnetic Resonance in Chemistry, 1994, 32, 458-464.	1.9	15
44	Kynurenine Located within Keratin Proteins Isolated from Photoyellowed Wool Fabric. Textile Reseach Journal, 2006, 76, 288-294.	2.2	15
45	Proteomic and peptidomic differences and similarities between four muscle types from New Zealand raised Angus steers. Meat Science, 2016, 121, 53-63.	5.5	15
46	Domestic animal proteomics in the 21st century: A global retrospective and viewpoint analysis. Journal of Proteomics, 2021, 241, 104220.	2.4	13
47	Combination of acid labile detergent and C18 Emporeâ„¢ disks for improved identification and sequence coverage of in-gel digested proteins. Analytical and Bioanalytical Chemistry, 2011, 400, 415-421.	3.7	12
48	The effect of wool surface and interior modification on subsequent photostability. Journal of Applied Polymer Science, 2013, 127, 3435-3440.	2.6	12
49	Application of redox proteomics to the study of oxidative degradation products in archaeological wool. Journal of Cultural Heritage, 2015, 16, 896-903.	3.3	12
50	Differences between ultrastructure and protein composition in straight hair fibres. Zoology, 2019, 133, 40-53.	1.2	12
51	Restrained molecular dynamics investigation of the differences in association of chymosin to Îº-caseins A and C. Journal of Dairy Research, 1997, 64, 299-304.	1.4	10
52	Diversity of Trichocyte Keratins and Keratin Associated Proteins. Advances in Experimental Medicine and Biology, 2018, 1054, 21-32.	1.6	10
53	The wool proteome and fibre characteristics of three distinct genetic ovine breeds from Portugal. Journal of Proteomics, 2020, 225, 103853.	2.4	10
54	Proteomic Differences between Listeria monocytogenes Isolates from Food and Clinical Environments. Pathogens, 2014, 3, 920-933.	2.8	9

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55	Structural features of a peptide corresponding to human Îº-casein residues 84â€"101 by 1H-nuclear magnetic resonance spectroscopy. Journal of Dairy Research, 1999, 66, 53-63.	1.4	8
56	Expression and purification of high sulfur and high glycine-tyrosine keratin-associated proteins (KAPs) for biochemical and biophysical characterization. Protein Expression and Purification, 2018, 146, 34-44.	1.3	8
57	The susceptibility of disulfide bonds to modification in keratin fibers undergoing tensile stress. Biophysical Journal, 2022, 121, 2168-2179.	0.5	7
58	A detailed mapping of the readily accessible disulphide bonds in the cortex of wool fibres. Proteins: Structure, Function and Bioinformatics, 2021, 89, 708-720.	2.6	6
59	From Natural Xanthones to Synthetic C-1 Aminated 3,4-Dioxygenated Xanthones as Optimized Antifouling Agents. Marine Drugs, 2021, 19, 638.	4.6	6
60	The influence of copper(<scp>II</scp>) ions on wool photostability in the dry state. Coloration Technology, 2013, 129, 323-329.	1.5	5
61	The Follicle Cycle in Brief. Advances in Experimental Medicine and Biology, 2018, 1054, 15-17.	1.6	5
62	Ovine keratome: identification, localisation and genomic organisation of keratin and keratinâ€associated proteins. Animal Genetics, 2018, 49, 361-370.	1.7	3
63	Fibre Ultrastructure. Advances in Experimental Medicine and Biology, 2018, 1054, 3-13.	1.6	3
64	Wool fiber curvature is correlated with abundance of <scp>K38</scp> and specific keratinâ€associated proteins. Proteins: Structure, Function and Bioinformatics, 2022, 90, 973-981.	2.6	3
65	Proteomics in Wool and Fibre Research. , 2018, , 281-296.		2
66	Investigating mathematical methods for high-throughput prediction of the critical buckling load of non-uniform wool fibers. Textile Reseach Journal, 2018, 88, 1002-1012.	2.2	2
67	Wool Proteomics. , 2016, , 211-223.		2
68	A comparative study on titanium dioxide sol-gel treatment for protein fabrics, focusing on UV transmittance effects. Fibers and Polymers, 2014, 15, 2335-2339.	2.1	1
69	Preparation of wool follicles for proteomic studies. Analytical Biochemistry, 2017, 539, 8-10.	2.4	1
70	Modelling the effect of Îº-casein A and C variants on the hydrolysis of Îº-casein by chymosin. International Dairy Journal, 1999, 9, 373-374.	3.0	0
71	A modular modeling approach for investigating wool critical buckling from biologically variable along-fiber microstructure. Textile Reseach Journal, 2021, 91, 421-433.	2.2	0