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	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
2	The susceptibility of disulfide bonds to modification in keratin fibers undergoing tensile stress. Biophysical Journal, 2022, 121, 2168-2179.	0.5	7
3	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
4	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
5	Domestic animal proteomics in the 21st century: A global retrospective and viewpoint analysis. Journal of Proteomics, 2021, 241, 104220.	2.4	13
6	From Natural Xanthones to Synthetic C-1 Aminated 3,4-Dioxygenated Xanthones as Optimized Antifouling Agents. Marine Drugs, 2021, 19, 638.	4.6	6
7	The wool proteome and fibre characteristics of three distinct genetic ovine breeds from Portugal. Journal of Proteomics, 2020, 225, 103853.	2.4	10
8	Differences between ultrastructure and protein composition in straight hair fibres. Zoology, 2019, 133, 40-53.	1.2	12
9	A Multi-Bioassay Integrated Approach to Assess the Antifouling Potential of the Cyanobacterial Metabolites Portoamides. Marine Drugs, 2019, 17, 111.	4.6	22
10	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
11	Proteomics in Wool and Fibre Research. , 2018, , 281-296.		2
12	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
13	Development of Hair Fibres. Advances in Experimental Medicine and Biology, 2018, 1054, 109-154.	1.6	35
14	The Follicle Cycle in Brief. Advances in Experimental Medicine and Biology, 2018, 1054, 15-17.	1.6	5
15	Diversity of Trichocyte Keratins and Keratin Associated Proteins. Advances in Experimental Medicine and Biology, 2018, 1054, 21-32.	1.6	10
16	Ovine keratome: identification, localisation and genomic organisation of keratin and keratinâ€associated proteins. Animal Genetics, 2018, 49, 361-370.	1.7	3
17	Fibre Ultrastructure. Advances in Experimental Medicine and Biology, 2018, 1054, 3-13.	1.6	3
18	Preparation of wool follicles for proteomic studies. Analytical Biochemistry, 2017, 539, 8-10.	2.4	1

#	Article	IF	Citations
19	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
20	Isolation and Analysis of Keratins and Keratin-Associated Proteins from Hair and Wool. Methods in Enzymology, 2016, 568, 279-301.	1.0	22
21	Wool Proteomics. , 2016, , 211-223.		2
22	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
23	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
24	The proteomics of wool fibre morphogenesis. Journal of Structural Biology, 2015, 191, 341-351.	2.8	34
25	Proteomic Differences between Listeria monocytogenes Isolates from Food and Clinical Environments. Pathogens, 2014, 3, 920-933.	2.8	9
26	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
27	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
28	Ionic liquid-assisted extraction of wool keratin proteins as an aid to MS identification. Analytical Methods, 2014, 6, 7305-7311.	2.7	16
29	Modeling Deamidation in Sheep Î±-Keratin Peptides and Application to Archeological Wool Textiles. Analytical Chemistry, 2014, 86, 567-575.	6.5	35
30	The effect of wool surface and interior modification on subsequent photostability. Journal of Applied Polymer Science, 2013, 127, 3435-3440.	2.6	12
31	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
32	The influence of copper(<scp>II</scp>) ions on wool photostability in the dry state. Coloration Technology, 2013, 129, 323-329.	1.5	5
33	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
34	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
35	Unravelling the proteome of wool: Towards markers of wool quality traits. Journal of Proteomics, 2012, 75, 4315-4324.	2.4	20
36	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

#	Article	IF	Citations
37	An Updated Nomenclature for Keratin-Associated Proteins (KAPs). International Journal of Biological Sciences, 2012, 8, 258-264.	6.4	68
38	Identification of the ovine keratin-associated protein KAP1-2 gene (KRTAP1-2). Experimental Dermatology, 2011, 20, 815-819.	2.9	24
39	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
40	Characterisation of low abundance wool proteins through novel differential extraction techniques. Electrophoresis, 2010, 31, 1937-1946.	2.4	25
41	Electrophoretic mapping of highly homologous keratins: A novel marker peptide approach. Electrophoresis, 2010, 31, 2894-2902.	2.4	20
42	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
43	Developing the wool proteome. Journal of Proteomics, 2010, 73, 1722-1731.	2.4	36
44	Emerging issues with the current keratin-associated protein nomenclature. International Journal of Trichology, 2010, 2, 104.	0.5	17
45	The Proteome of the Wool Cuticle. Journal of Proteome Research, 2010, 9, 2920-2928.	3.7	40
46	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
47	Protein Expression in Orthocortical and Paracortical Cells of Merino Wool Fibers. Journal of Agricultural and Food Chemistry, 2009, 57, 2174-2180.	5.2	20
48	The proteomics of keratin proteins. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2007, 849, 181-189.	2.3	45
49	The differential expression of proteins in the cortical cells of wool and hair fibres. Experimental Dermatology, 2007, 16, 707-714.	2.9	38
50	Characterization of the exocuticle a-layer proteins of wool. Experimental Dermatology, 2007, 16, 951-960.	2.9	37
51	Kynurenine Located within Keratin Proteins Isolated from Photoyellowed Wool Fabric. Textile Reseach Journal, 2006, 76, 288-294.	2.2	15
52	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
53	Proteomic database of wool components. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2003, 787, 63-76.	2.3	63
54	The high sulphur proteins of wool: Towards an understanding of sheep breed diversity. Proteomics, 2002, 2, 1240-1246.	2.2	25

#	Article	IF	Citations
55	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
56	Application of proteomics for determining protein markers for wool quality traits. Electrophoresis, 2000, 21, 1899-1906.	2.4	36
57	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
58	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
59	Micelle Stability: Îº-Casein Structure and Function. Journal of Dairy Science, 1998, 81, 3004-3012.	3.4	72
60	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
61	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
62	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
63	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
64	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
65	Spectrochemical studies on the blue copper protein azurin from Alcaligenes denitrificans. Biochemistry, 1987, 26, 71-82.	2.5	90
66	Structure and siderophore activity of ferric schizokinen. Journal of Inorganic Biochemistry, 1984, 20, 183-197.	3.5	22
67	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
68	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
69	Studies on human lactoferrin by electron paramagnetic resonance, fluorescence, and resonance Raman spectroscopy. Biochemistry, 1980, 19, 4072-4079.	2.5	94
70	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
71	The chromium, manganese, cobalt and copper complexes of human lactoferrin. Inorganica Chimica Acta, 1979, 33, 149-153.	2.4	82