

# Maxwell T Hincke

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/542958/publications.pdf>

Version: 2024-02-01

52  
papers

2,375  
citations

279798

23  
h-index

214800

47  
g-index

53  
all docs

53  
docs citations

53  
times ranked

1982  
citing authors

#	ARTICLE	IF	CITATIONS
1	Avian eggshell mineralization: biochemical and functional characterization of matrix proteins. <i>Comptes Rendus - Palevol</i> , 2004, 3, 549-562.	0.2	385
2	The eggshell: structure, composition and mineralization. <i>Frontiers in Bioscience - Landmark</i> , 2012, 17, 1266.	3.0	315
3	Ovocalyxin-32, a Novel Chicken Eggshell Matrix Protein. <i>Journal of Biological Chemistry</i> , 2001, 276, 39243-39252.	3.4	132
4	Amorphous calcium carbonate controls avian eggshell mineralization: A new paradigm for understanding rapid eggshell calcification. <i>Journal of Structural Biology</i> , 2015, 190, 291-303.	2.8	122
5	Proteomic analysis provides new insight into the chicken eggshell cuticle. <i>Journal of Proteomics</i> , 2012, 75, 2697-2706.	2.4	95
6	Nanostructure, osteopontin, and mechanical properties of calcitic avian eggshell. <i>Science Advances</i> , 2018, 4, eaar3219.	10.3	86
7	The Role of Matrix Proteins in Eggshell Formation. <i>Journal of Poultry Science</i> , 2010, 47, 208-219.	1.6	76
8	Recent Patents on Eggshell: Shell and Membrane Applications. <i>Recent Patents on Food, Nutrition &amp; Agriculture</i> , 2011, 3, 1-8.	0.9	68
9	Novel identification of matrix proteins involved in calcitic biomineralization. <i>Journal of Proteomics</i> , 2015, 116, 81-96.	2.4	65
10	Mesenchymal stem cell-based tissue engineering strategies for repair of articular cartilage. <i>Histology and Histopathology</i> , 2014, 29, 669-89.	0.7	64
11	Quantitative proteomics analysis of eggshell membrane proteins during chick embryonic development. <i>Journal of Proteomics</i> , 2016, 130, 11-25.	2.4	63
12	In-depth comparative analysis of the chicken eggshell membrane proteome. <i>Journal of Proteomics</i> , 2017, 155, 49-62.	2.4	58
13	Colloidal-gold Immunocytochemical Localization of Osteopontin in Avian Eggshell Gland and Eggshell. <i>Journal of Histochemistry and Cytochemistry</i> , 2008, 56, 467-476.	2.5	54
14	Processed eggshell membrane powder: Bioinspiration for an innovative wound healing product. <i>Materials Science and Engineering C</i> , 2019, 95, 192-203.	7.3	54
15	Identifying specific proteins involved in eggshell membrane formation using gene expression analysis and bioinformatics. <i>BMC Genomics</i> , 2015, 16, 792.	2.8	47
16	Ovocalyxin-36 Is a Pattern Recognition Protein in Chicken Eggshell Membranes. <i>PLoS ONE</i> , 2013, 8, e84112.	2.5	45
17	Dynamics of Structural Barriers and Innate Immune Components during Incubation of the Avian Egg: Critical Interplay between Autonomous Embryonic Development and Maternal Anticipation. <i>Journal of Innate Immunity</i> , 2019, 11, 111-124.	3.8	44
18	The transcriptome landscapes of ovary and three oviduct segments during chicken ( <i>Gallus gallus</i> ) egg formation. <i>Genomics</i> , 2020, 112, 243-251.	2.9	42

#	ARTICLE	IF	CITATIONS
19	Biotechnological Applications of Eggshell: Recent Advances. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 675364.	4.1	37
20	Processed eggshell membrane powder regulates cellular functions and increase MMP-activity important in early wound healing processes. <i>PLoS ONE</i> , 2018, 13, e0201975.	2.5	34
21	Histone H5 is a potent Antimicrobial Agent and a template for novel Antimicrobial Peptides. <i>Scientific Reports</i> , 2018, 8, 2411.	3.3	30
22	A Review of the Varied Uses of Macroalgae as Dietary Supplements in Selected Poultry with Special Reference to Laying Hen and Broiler Chickens. <i>Journal of Marine Science and Engineering</i> , 2020, 8, 536.	2.6	29
23	Three chromosome-level duck genome assemblies provide insights into genomic variation during domestication. <i>Nature Communications</i> , 2021, 12, 5932.	12.8	27
24	The glycoproteins EDIL3 and MFGE8 regulate vesicle-mediated eggshell calcification in a new model for avian biomineralization. <i>Journal of Biological Chemistry</i> , 2019, 294, 14526-14545.	3.4	25
25	Integrating De Novo Transcriptome Assembly and Cloning to Obtain Chicken Ovocleidin-17 Full-Length cDNA. <i>PLoS ONE</i> , 2014, 9, e93452.	2.5	25
26	Inositol 1,4,5-trisphosphate receptor localization in the brain of a weakly electric fish ( <i>Apteronotus</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 361, 512-524.	1.6	24
27	Avian Eggshell Membrane as a Novel Biomaterial: A Review. <i>Foods</i> , 2021, 10, 2178.	4.3	24
28	Distribution of calcium/calmodulin-dependent kinase 2 in the brain of <i>Apteronotus leptorhynchus</i> . <i>Journal of Comparative Neurology</i> , 1999, 408, 177-203.	1.6	22
29	A novel eco-friendly green approach to produce particalized eggshell membrane (PEM) for skin health applications. <i>Biomaterials Science</i> , 2020, 8, 5346-5361.	5.4	21
30	Avian eggshell formation reveals a new paradigm for vertebrate mineralization via vesicular amorphous calcium carbonate. <i>Journal of Biological Chemistry</i> , 2020, 295, 15853-15869.	3.4	18
31	Guinea fowl eggshell quantitative proteomics yield new findings related to its unique structural characteristics and superior mechanical properties. <i>Journal of Proteomics</i> , 2019, 209, 103511.	2.4	16
32	Antimicrobial histones from chicken erythrocytes bind bacterial cell wall lipopolysaccharides and lipoteichoic acids. <i>International Journal of Antimicrobial Agents</i> , 2014, 44, 470-472.	2.5	15
33	Ovocalyxin-36 is an effector protein modulating the production of proinflammatory mediators. <i>Veterinary Immunology and Immunopathology</i> , 2014, 160, 1-11.	1.2	15
34	Evolution of the Avian Eggshell Biomineralization Protein Toolkit “ New Insights From Multi-Omics. <i>Frontiers in Genetics</i> , 2021, 12, 672433.	2.3	15
35	Eggshell decalcification and skeletal mineralization during chicken embryonic development: defining candidate genes in the chorioallantoic membrane. <i>Poultry Science</i> , 2022, 101, 101622.	3.4	15
36	Properties, Genetics and Innate Immune Function of the Cuticle in Egg-Laying Species. <i>Frontiers in Immunology</i> , 2022, 13, 838525.	4.8	15

#	ARTICLE	IF	CITATIONS
37	iTRAQ-Based Quantitative Proteomic Analysis of Duck Eggshell During Biomineralization. <i>Proteomics</i> , 2019, 19, 1900011.	2.2	14
38	Development and characterization of magnetic eggshell membranes for lead removal from wastewater. <i>Ecotoxicology and Environmental Safety</i> , 2020, 192, 110307.	6.0	14
39	Histones from Avian Erythrocytes Exhibit Antibiofilm activity against methicillin-sensitive and methicillin-resistant <i>Staphylococcus aureus</i> . <i>Scientific Reports</i> , 2017, 7, 45980.	3.3	13
40	Proteomics of Shell Matrix Proteins from the Cuttlefish Bone Reveals Unique Evolution for Cephalopod Biomineralization. <i>ACS Biomaterials Science and Engineering</i> , 2023, 9, 1796-1807.	5.2	13
41	Learning Anatomy: Can Dissection and Peer-Mediated Teaching Offer Added Benefits over Prosection Alone?. <i>ISRN Anatomy</i> , 2013, 2013, 1-4.	0.5	13
42	Experimental datasets on processed eggshell membrane powder for wound healing. <i>Data in Brief</i> , 2019, 26, 104457.	1.0	12
43	Integrating transcriptome, proteome and QTL data to discover functionally important genes for duck eggshell and albumen formation. <i>Genomics</i> , 2020, 112, 3687-3695.	2.9	11
44	Immunomodulation and Intestinal Morpho-Functional Aspects of a Novel Gram-Negative Bacterium <i>Rouxiiella badensis</i> subsp. <i>acadiensis</i> . <i>Frontiers in Microbiology</i> , 2021, 12, 569119.	3.5	9
45	High value applications and current commercial market for eggshell membranes and derived bioactives. <i>Food Chemistry</i> , 2022, 382, 132270.	8.2	9
46	A Survey of Recent Patents in Engineering Technology for the Screening, Separation and Processing of Eggshell. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 677559.	4.1	8
47	Impact of Different Layer Housing Systems on Eggshell Cuticle Quality and Salmonella Adherence in Table Eggs. <i>Foods</i> , 2021, 10, 2559.	4.3	7
48	Concomitant Morphological Modifications of the Avian Eggshell, Eggshell Membranes and the Chorioallantoic Membrane During Embryonic Development. <i>Frontiers in Physiology</i> , 2022, 13, 838013.	2.8	6
49	Ca <sup>2+</sup> -Flux Modulation by Calmodulin Phosphorylation in Cardiac Sarcolemma. <i>Membrane Biochemistry</i> , 1984, 5, 109-117.	0.6	4
50	Proteomic Analysis of Chicken Chorioallantoic Membrane (CAM) during Embryonic Development Provides Functional Insight. <i>BioMed Research International</i> , 2022, 2022, 1-17.	1.9	3
51	K depletion stimulates <i>in vivo</i> HCO <sub>3</sub> reabsorption in surviving rat distal tubules. <i>American Journal of Physiology - Renal Physiology</i> , 1998, 274, F665-F672.	2.7	1
52	Mechanisms and hormonal regulation of shell formation. , 2022, , 813-859.		1