

Mary Higby Schweitzer

List of Publications by Year in descending order

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74
papers

3,462
citations

125106

35
h-index

169272

56
g-index

77
all docs

77
docs citations

77
times ranked

2489
citing authors

#	ARTICLE	IF	CITATIONS
1	Deep Time Paleoproteomics: Looking Forward. <i>Journal of Proteome Research</i> , 2022, 21, 9-19.	1.8	12
2	Environmental Factors Affecting Feather Taphonomy. <i>Biology</i> , 2022, 11, 703.	1.3	2
3	Keratan sulfate as a marker for medullary bone in fossil vertebrates. <i>Journal of Anatomy</i> , 2021, 238, 1296-1311.	0.9	2
4	Molecular tests support the viability of rare earth elements as proxies for fossil biomolecule preservation. <i>Scientific Reports</i> , 2020, 10, 15566.	1.6	13
5	Evidence of proteins, chromosomes and chemical markers of DNA in exceptionally preserved dinosaur cartilage. <i>National Science Review</i> , 2020, 7, 815-822.	4.6	27
6	Identifying medullary bone in extinct avemetatarsalians: challenges, implications and perspectives. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2020, 375, 20190133.	1.8	14
7	Proteomic method to extract, concentrate, digest and enrich peptides from fossils with coloured (humic) substances for mass spectrometry analyses. <i>Royal Society Open Science</i> , 2019, 6, 181433.	1.1	15
8	Mechanisms of soft tissue and protein preservation in <i>Tyrannosaurus rex</i> . <i>Scientific Reports</i> , 2019, 9, 15678.	1.6	27
9	The molecular evolution of feathers with direct evidence from fossils. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 3018-3023.	3.3	45
10	Paleoproteomics of Mesozoic Dinosaurs and Other Mesozoic Fossils. <i>Proteomics</i> , 2019, 19, e1800251.	1.3	28
11	Systemic distribution of medullary bone in the avian skeleton: ground truthing criteria for the identification of reproductive tissues in extinct Avemetatarsalia. <i>BMC Evolutionary Biology</i> , 2019, 19, 71.	3.2	33
12	Dinosaur paleohistology: review, trends and new avenues of investigation. <i>PeerJ</i> , 2019, 7, e7764.	0.9	22
13	Preservation potential of keratin in deep time. <i>PLoS ONE</i> , 2018, 13, e0206569.	1.1	16
14	Soft-tissue evidence for homeothermy and crypsis in a Jurassic ichthyosaur. <i>Nature</i> , 2018, 564, 359-365.	13.7	81
15	Resonance Raman imagery of semi-fossilized soft tissues. , 2018, , .		1
16	Expansion for the <i>Brachylophosaurus canadensis</i> Collagen I Sequence and Additional Evidence of the Preservation of Cretaceous Protein. <i>Journal of Proteome Research</i> , 2017, 16, 920-932.	1.8	80
17	Biochemistry and adaptive colouration of an exceptionally preserved juvenile fossil sea turtle. <i>Scientific Reports</i> , 2017, 7, 13324.	1.6	36
18	Molecular evidence of keratin and melanosomes in feathers of the Early Cretaceous bird <i>Eoconfuciusornis</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E7900-E7907.	3.3	56

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19	Chemistry supports the identification of gender-specific reproductive tissue in <i>Tyrannosaurus rex</i> . <i>Scientific Reports</i> , 2016, 6, 23099.	1.6	38
20	Microscopic and immunohistochemical analyses of the claw of the nesting dinosaur, <i>Citipati osmolskae</i> . <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2016, 283, 20161997.	1.2	19
21	Testing the Hypothesis of Biofilm as a Source for Soft Tissue and Cell-Like Structures Preserved in Dinosaur Bone. <i>PLoS ONE</i> , 2016, 11, e0150238.	1.1	23
22	Keratin Durability Has Implications for the Fossil Record: Results from a 10 Year Feather Degradation Experiment. <i>PLoS ONE</i> , 2016, 11, e0157699.	1.1	32
23	Bone protein extractomics: comparing the efficiency of bone protein extractions of <i>Gallus gallus</i> in tandem mass spectrometry, with an eye towards paleoproteomics. <i>PeerJ</i> , 2016, 4, e2603.	0.9	38
24	Alligator osteoderms as a source of labile calcium for eggshell formation. <i>Journal of Zoology</i> , 2015, 297, 255-264.	0.8	34
25	Melanosomes and ancient coloration re-examined: A response to Vinther 2015 (DOI) 10.784314 rgBT /Overlock 10 Tf 50 50	1.2	22
26	Biologically and diagenetically derived peptide modifications in moa collagens. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2015, 282, 20150015.	1.2	67
27	Interpreting melanin-based coloration through deep time: a critical review. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2015, 282, 20150614.	1.2	60
28	Mass Spectrometry and Antibody-Based Characterization of Blood Vessels from <i>Brachylophosaurus canadensis</i> . <i>Journal of Proteome Research</i> , 2015, 14, 5252-5262.	1.8	59
29	A Pelomedusoid Turtle from the Paleocene-Eocene of Colombia Exhibiting Preservation of Blood Vessels and Osteocytes. <i>Journal of Herpetology</i> , 2014, 48, 461-465.	0.2	15
30	Blood from Stone. <i>Scientific American Reports</i> , 2014, 23, 104-111.	0.0	0
31	Protein Molecular Data from Ancient (>1 million years old) Fossil Material: Pitfalls, Possibilities and Grand Challenges. <i>Analytical Chemistry</i> , 2014, 86, 6731-6740.	3.2	22
32	A role for iron and oxygen chemistry in preserving soft tissues, cells and molecules from deep time. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2014, 281, 20132741.	1.2	77
33	Dinosaurs Are Important. <i>Scientific American</i> , 2014, 310, 12-12.	1.0	0
34	Synchrotron Chemical and Structural Analysis of <i>Tyrannosaurus rex</i> Blood Vessels: The Contribution of Collagen Hypercrosslinking to Tissue Longevity. <i>Microscopy and Microanalysis</i> , 2014, 20, 1430-1431.	0.2	2
35	Melanosomes or Microbes: Testing an Alternative Hypothesis for the Origin of Microbodies in Fossil Feathers. <i>Scientific Reports</i> , 2014, 4, 4233.	1.6	58
36	Molecular analyses of dinosaur osteocytes support the presence of endogenous molecules. <i>Bone</i> , 2013, 52, 414-423.	1.4	80

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37	Chemical Analyses of Fossil Bone. <i>Methods in Molecular Biology</i> , 2012, 915, 153-172.	0.4	4
38	Variation in osteocytes morphology vs bone type in turtle shell and their exceptional preservation from the Jurassic to the present. <i>Bone</i> , 2012, 51, 614-620.	1.4	29
39	Empirical Evaluation of Bone Extraction Protocols. <i>PLoS ONE</i> , 2012, 7, e31443.	1.1	52
40	Soft Tissue Preservation in Terrestrial Mesozoic Vertebrates. <i>Annual Review of Earth and Planetary Sciences</i> , 2011, 39, 187-216.	4.6	111
41	Histological, chemical, and morphological reexamination of the heart of a small Late Cretaceous <i>Thescelosaurus</i> . <i>Die Naturwissenschaften</i> , 2011, 98, 203-211.	0.6	15
42	Dinosaur Peptides Suggest Mechanisms of Protein Survival. <i>PLoS ONE</i> , 2011, 6, e20381.	1.1	39
43	Limb bone histology and growth in <i>Placerias hesternus</i> (Therapsida: Anomodontia) from the Upper Triassic of North America. <i>Palaeontology</i> , 2010, 53, 347-364.	1.0	16
44	Blood from Stone. <i>Scientific American</i> , 2010, 303, 62-69.	1.0	11
45	Biomolecular Characterization and Protein Sequences of the Campanian Hadrosaur <i>B. canadensis</i> . <i>Science</i> , 2009, 324, 626-631.	6.0	212
46	Molecular Phylogenetics of Mastodon and <i>Tyrannosaurus rex</i> . <i>Science</i> , 2008, 320, 499-499.	6.0	53
47	Microscopic, chemical and molecular methods for examining fossil preservation. <i>Comptes Rendus - Palevol</i> , 2008, 7, 159-184.	0.1	58
48	Interpreting Sequences from Mastodon and <i>T. rex</i> . <i>Science</i> , 2007, 317, 1324-1325.	6.0	45
49	Soft tissue and cellular preservation in vertebrate skeletal elements from the Cretaceous to the present. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2007, 274, 183-197.	1.2	100
50	Protein Sequences from Mastodon and <i>Tyrannosaurus Rex</i> Revealed by Mass Spectrometry. <i>Science</i> , 2007, 316, 280-285.	6.0	273
51	Porphyrin as an Ideal Biomarker in the Search for Extraterrestrial Life. <i>Astrobiology</i> , 2007, 7, 605-615.	1.5	45
52	Do egg-laying crocodylian (<i>Alligator mississippiensis</i>) archosaurs form medullary bone?. <i>Bone</i> , 2007, 40, 1152-1158.	1.4	51
53	Will current technologies enable dinosaur proteomics?. <i>Expert Review of Proteomics</i> , 2007, 4, 695-699.	1.3	4
54	Analyses of Soft Tissue from <i>Tyrannosaurus rex</i> Suggest the Presence of Protein. <i>Science</i> , 2007, 316, 277-280.	6.0	187

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55	The Sauropods: Evolution and Paleobiology Kristina A. Curry Rogers, Jeffrey A. Wilson . 2005. The University of California Press. Berkeley, California. ISBN: 978-0-520-24623-2 (hard cover). 358 \$65.00 (hard cover).. Copeia, 2007, 2007, 234-237.	1.4	0
56	Soft-Tissue Vessels and Cellular Preservation in Tyrannosaurus rex. Science, 2005, 307, 1952-1955.	6.0	143
57	Gender-Specific Reproductive Tissue in Ratites and Tyrannosaurus rex. Science, 2005, 308, 1456-1460.	6.0	133
58	A silicified bird from Quaternary hot spring deposits. Proceedings of the Royal Society B: Biological Sciences, 2005, 272, 905-911.	1.2	15
59	Molecular preservation in Late Cretaceous sauropod dinosaur eggshells. Proceedings of the Royal Society B: Biological Sciences, 2005, 272, 775-784.	1.2	32
60	Experimental Support for an Immunological Approach to the Search for Life on Other Planets. Astrobiology, 2005, 5, 30-47.	1.5	27
61	Preservation of Bone Collagen from the Late Cretaceous Period Studied by Immunological Techniques and Atomic Force Microscopy. Langmuir, 2005, 21, 3584-3590.	1.6	26
62	Molecular paleontology: some current advances and problems. Annales De Paleontologie, 2004, 90, 81-102.	0.1	21
63	Comparison of Antibody-antigen Interactions on Collagen Measured by Conventional Immunological Techniques and Atomic Force Microscopy. Langmuir, 2004, 20, 11053-11063.	1.6	33
64	Remarkable Preservation of Undigested Muscle Tissue Within a Late Cretaceous Tyrannosaurid Coprolite from Alberta, Canada. Palaios, 2003, 18, 286-294.	0.6	101
65	Late Cretaceous avian eggs with embryos from Argentina. Journal of Vertebrate Paleontology, 2002, 22, 191-195.	0.4	67
66	Identification of Immunoreactive Material in Mammoth Fossils. Journal of Molecular Evolution, 2002, 55, 696-705.	0.8	49
67	Dinosaur eggshell study using scanning electron microscopy. Scanning, 2002, 24, 217-223.	0.7	11
68	A molecular model for the evolution of endothermy in the theropod-bird lineage. The Journal of Experimental Zoology, 2001, 291, 317-338.	1.4	40
69	Intravascular microstructures in trabecular bone tissues of Tyrannosaurus rex. Annales De Paleontologie, 1999, 85, 179-192.	0.1	27
70	Keratin immunoreactivity in the Late Cretaceous bird <i>Rahonavis ostromi</i> . Journal of Vertebrate Paleontology, 1999, 19, 712-722.	0.4	45
71	Preservation of biomolecules in cancellous bone of <i>Tyrannosaurus rex</i> . Journal of Vertebrate Paleontology, 1997, 17, 349-359.	0.4	49
72	Heme compounds in dinosaur trabecular bone. Proceedings of the National Academy of Sciences of the United States of America, 1997, 94, 6291-6296.	3.3	73

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73	Detecting dinosaur DNA. Science, 1995, 268, 1191-1192.	6.0	80
74	Will the Dinosaurs Rise Again?. The Paleontological Society Special Publications, 1994, 7, 309-326.	0.0	1