

# Susan W Herring

## List of Publications by Year in descending order

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83  
papers

4,977  
citations

101543

36  
h-index

91884

69  
g-index

84  
all docs

84  
docs citations

84  
times ranked

3687  
citing authors

#	ARTICLE	IF	CITATIONS
1	Engineering Complex Tissues. <i>Tissue Engineering</i> , 2006, 12, 3307-3339.	4.6	513
2	Functional heterogeneity in a multipinnate muscle. <i>American Journal of Anatomy</i> , 1979, 154, 563-575.	1.0	298
3	Hyaluronic acid hydrogels with controlled degradation properties for oriented bone regeneration. <i>Biomaterials</i> , 2010, 31, 6772-6781.	11.4	282
4	The Superficial Masseter and Gape in Mammals. <i>American Naturalist</i> , 1974, 108, 561-576.	2.1	218
5	Strain in the braincase and its sutures during function. <i>American Journal of Physical Anthropology</i> , 2000, 112, 575-593.	2.1	205
6	Physiology of feeding in miniature pigs. <i>Journal of Morphology</i> , 1973, 141, 427-460.	1.2	203
7	Osteoprotegerin, a Crucial Regulator of Bone Metabolism, Also Regulates B Cell Development and Function. <i>Journal of Immunology</i> , 2001, 166, 1482-1491.	0.8	174
8	Craniofacial sutures: Morphology, growth, and in vivo masticatory strains. <i>Journal of Morphology</i> , 1999, 242, 167-179.	1.2	173
9	Neural organization of the masseter muscle in the pig. <i>Journal of Comparative Neurology</i> , 1989, 280, 563-576.	1.6	139
10	Regulation of sarcomere number in skeletal muscle: A comparison of hypotheses. <i>Muscle and Nerve</i> , 1984, 7, 161-173.	2.2	136
11	In vivo strain in cranial sutures: The zygomatic arch. <i>Journal of Morphology</i> , 1991, 207, 225-239.	1.2	128
12	The Ontogeny of Mammalian Mastication. <i>American Zoologist</i> , 1985, 25, 339-350.	0.7	125
13	Sutures "a tool in functional cranial analysis. <i>Cells Tissues Organs</i> , 1972, 83, 222-247.	2.3	122
14	Mechanical Influences on Suture Development and Patency. <i>Frontiers of Oral Biology</i> , 2008, , 41-56.	1.5	115
15	The dynamics of mastication in pigs. <i>Archives of Oral Biology</i> , 1976, 21, 473-480.	1.8	109
16	Linguistic and Critical Analysis of Computer-Mediated Communication: Some Ethical and Scholarly Considerations. <i>Information Society</i> , 1996, 12, 153-168.	2.9	102
17	Biomechanics of the rostrum and the role of facial sutures. <i>Journal of Morphology</i> , 2003, 257, 33-44.	1.2	101
18	Botulinum toxin in masticatory muscles: Short- and long-term effects on muscle, bone, and craniofacial function in adult rabbits. <i>Bone</i> , 2012, 50, 651-662.	2.9	95

#	ARTICLE	IF	CITATIONS
19	Formation of the Vertebrate Face Epigenetic and Functional Influences. American Zoologist, 1993, 33, 472-483.	0.7	82
20	The Role of Canine Morphology in the Evolutionary Divergence of Pigs and Peccaries. Journal of Mammalogy, 1972, 53, 500-512.	1.3	81
21	Development of the masseter muscle and oral behavior in the pig. The Journal of Experimental Zoology, 1986, 237, 191-207.	1.4	81
22	Trabecular and cortical bone as risk factors for orthodontic relapse. American Journal of Orthodontics and Dentofacial Orthopedics, 2006, 130, 476-484.	1.7	79
23	Modulation of mandibular loading and bite force in mammals during mastication. Journal of Experimental Biology, 2007, 210, 1046-1063.	1.7	74
24	Functional Morphology of Mammalian Mastication. American Zoologist, 1993, 33, 289-299.	0.7	70
25	Patterns of bone strain in the zygomatic arch. , 1996, 246, 446-457.		60
26	XROMM analysis of tooth occlusion and temporomandibular joint kinematics during feeding in juvenile miniature pigs. Journal of Experimental Biology, 2015, 218, 2573-84.	1.7	59
27	Mechanical influences on suture development and patency. Frontiers of Oral Biology, 2008, 12, 41-56.	1.5	56
28	Effects of Intraoral Splint Wear on Proteoglycans in the Temporomandibular Joint Disc. Archives of Biochemistry and Biophysics, 2000, 379, 64-70.	3.0	55
29	Masticatory muscles and the skull: A comparative perspective. Archives of Oral Biology, 2007, 52, 296-299.	1.8	53
30	Movement of temporomandibular joint tissues during mastication and passive manipulation in miniature pigs. Archives of Oral Biology, 2002, 47, 293-305.	1.8	52
31	A biometric study of suture fusion and skull growth in peccaries. Anatomy and Embryology, 1974, 146, 167-180.	1.5	49
32	Morphological Correlates of Masticatory Patterns in Peccaries and Pigs. Journal of Mammalogy, 1985, 66, 603-617.	1.3	48
33	Loading of the Temporomandibular Joint: Anatomical and in vivo Evidence from the Bones. Cells Tissues Organs, 2001, 169, 193-200.	2.3	48
34	Ontogeny of oral function in hamsters(Mesocricetus auratus). Journal of Morphology, 1980, 165, 237-254.	1.2	45
35	Functional Design of Cranial Muscles Comparative and Physiological Studies in Pigs. American Zoologist, 1980, 20, 283-293.	0.7	41
36	Load transmission in the nasofrontal suture of the pig, Sus scrofa. Journal of Biomechanics, 2007, 40, 837-844.	2.1	41

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37	Mastication and Maturity: A Longitudinal Study in Pigs. <i>Journal of Dental Research</i> , 1977, 56, 1377-1382.	5.2	36
38	Anatomy and embryology in cephalothoracopagus twins. <i>Teratology</i> , 1981, 23, 159-173.	1.6	33
39	Bone and cartilage changes in rabbit mandibular condyles after 1 injection of botulinum toxin. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , 2015, 148, 999-1009.	1.7	31
40	Cell replication in craniofacial periosteum: appositional vs. resorptive sites. <i>Journal of Anatomy</i> , 2011, 218, 285-297.	1.5	28
41	Compressive loading on bone surfaces from muscular contraction: an in vivo study in the miniature pig, <i>Sus scrofa</i> . <i>Journal of Morphology</i> , 1998, 238, 71-80.	1.2	26
42	Intracranial pressure changes during mouse development. <i>Journal of Biomechanics</i> , 2016, 49, 123-126.	2.1	26
43	Activity Patterns within the Genioglossus during Suckling in Domestic Dogs and Pigs: Interspecific and Intraspecific Plasticity. <i>Brain, Behavior and Evolution</i> , 1987, 30, 249-262.	1.7	25
44	Cellular proliferation in the nasal septal cartilage of juvenile minipigs. <i>Journal of Anatomy</i> , 2014, 225, 604-613.	1.5	24
45	The buccinator during mastication: A functional and anatomical evaluation in minipigs. <i>Archives of Oral Biology</i> , 2010, 55, 627-638.	1.8	23
46	Alterations of morphology and microdensity in the condyle after mandibular osteodistraction in the rat. <i>Journal of Oral and Maxillofacial Surgery</i> , 2003, 61, 918-927.	1.2	22
47	The facial musculature of the suidae. <i>Journal of Morphology</i> , 1972, 137, 49-62.	1.2	21
48	Stereological analysis of bone architecture in the pig zygomatic arch. <i>The Anatomical Record</i> , 1997, 248, 205-213.	1.8	21
49	Soft Tissue Mechanics of the Temporomandibular Joint. <i>Cells Tissues Organs</i> , 2005, 180, 36-43.	2.3	21
50	Ontogeny of bone strain: the zygomatic arch in pigs. <i>Journal of Experimental Biology</i> , 2005, 208, 4509-4521.	1.7	20
51	Alveolar ridge reduction after tooth extraction in adolescents: An animal study. <i>Archives of Oral Biology</i> , 2013, 58, 813-825.	1.8	20
52	Real-time monitoring of the growth of the nasal septal cartilage and the nasofrontal suture. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , 2013, 143, 773-783.	1.7	19
53	The effect of periosteal injury and masticatory micromovement on the healing of a mandibular distraction osteogenesis site. <i>Archives of Oral Biology</i> , 2009, 54, 205-215.	1.8	18
54	Deformation of nasal septal cartilage during mastication. <i>Journal of Morphology</i> , 2009, 270, 1209-1218.	1.2	18

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55	Somatotopic Organization of Perioral Musculature Innervation within the Pig Facial Motor Nucleus. <i>Brain, Behavior and Evolution</i> , 2005, 66, 22-34.	1.7	17
56	Cell proliferation and osteogenic differentiation of growing pig cranial sutures. <i>Journal of Anatomy</i> , 2007, 211, 280-289.	1.5	17
57	Compressive and tensile mechanical properties of the porcine nasal septum. <i>Journal of Biomechanics</i> , 2014, 47, 154-161.	2.1	17
58	Bone growth and periosteal migration control masseter muscle orientation in pigs ( <i>Sus scrofa</i> ). <i>The Anatomical Record</i> , 1993, 235, 215-222.	1.8	16
59	Mastication and the Postorbital Ligament: Dynamic Strain in Soft Tissues. <i>Integrative and Comparative Biology</i> , 2011, 51, 297-306.	2.0	14
60	Changes in growth and morphology of the condyle following mandibular distraction in minipigs: Overloading or underloading?. <i>Archives of Oral Biology</i> , 2007, 52, 967-976.	1.8	13
61	Bone volume, tooth volume, and incisor relapse: A 3-dimensional analysis of orthodontic stability. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , 2010, 138, 778-786.	1.7	12
62	Mandibular Mechanics After Osteotomy and Distraction Appliance Placement I: Postoperative Mobility of the Osteotomy Site. <i>Journal of Oral and Maxillofacial Surgery</i> , 2006, 64, 610-619.	1.2	11
63	Masticatory mechanics of a mandibular distraction osteogenesis site: Interfragmentary micromovement. <i>Bone</i> , 2007, 41, 188-196.	2.9	11
64	Rigid fixation and strain patterns in the pig zygomatic arch and suture. <i>Journal of Oral and Maxillofacial Surgery</i> , 1997, 55, 496-504.	1.2	10
65	Mandibular Mechanics Following Osteotomy and Appliance Placement II: Bone Strain on the Body and Condylar Neck. <i>Journal of Oral and Maxillofacial Surgery</i> , 2006, 64, 620-627.	1.2	10
66	Botulinum neurotoxin type A in the masseter muscle: Effects on incisor eruption in rabbits. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , 2013, 143, 499-506.	1.7	10
67	A Nonprimate Model for the Fused Symphysis: In Vivo Studies in the Pig. , 2008, , 19-37.		10
68	Periosteal migration in the growing mandible: An animal model. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , 1995, 108, 22-29.	1.7	8
69	Differential response of pig masseter to botulinum neurotoxin serotypes a and b. <i>Muscle and Nerve</i> , 2015, 52, 88-93.	2.2	7
70	The Periosteum of the Zygomatic Arch: Vascularization and Growth. <i>Anatomical Record</i> , 2016, 299, 1661-1670.	1.4	7
71	An unusual function for the medial pterygoid muscle in the guinea pig. <i>Archives of Oral Biology</i> , 1986, 31, 781-783.	1.8	6
72	Cyclic loading effects on craniofacial strain and sutural growth in pigs. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , 2018, 154, 270-282.	1.7	5

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73	Histological Development of the Fused Mandibular Symphysis in the Pig. <i>Anatomical Record</i> , 2019, 302, 1372-1388.	1.4	5
74	Muscle Logic: New Knowledge Resource for Anatomy Enables Comprehensive Searches of the Literature on the Feeding Muscles of Mammals. <i>PLoS ONE</i> , 2016, 11, e0149102.	2.5	5
75	Polymorphous geniohyoid muscles of mice, rats and hamsters. <i>Archives of Oral Biology</i> , 1987, 32, 421-427.	1.8	4
76	Can cephalometric parameters be measured reproducibly using reduced-dose cone-beam computed tomography?. <i>Journal of the World Federation of Orthodontists</i> , 2019, 8, 43-50.	2.3	4
77	Functional tooth mobility in young pigs. <i>Journal of Biomechanics</i> , 2020, 104, 109716.	2.1	4
78	Botulinum toxin in the masseter muscle: Lingering effects of denervation. <i>Anatomical Record</i> , 2021, , .	1.4	4
79	Mechanobiology of bone and suture “ Results from a pig model. <i>Orthodontics and Craniofacial Research</i> , 2019, 22, 82-89.	2.8	2
80	Repeated botulinum treatment of rabbit masseter causes cumulative tissue damage. <i>Archives of Oral Biology</i> , 2022, 141, 105480.	1.8	2
81	Concluding Remarks: Trends in Vertebrate Morphology. <i>Animal Biology</i> , 1989, 40, 403-408.	0.4	1
82	Authors' response. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , 2016, 149, 443-445.	1.7	1
83	4th International Congress of Vertebrate Morphology. <i>Journal of Paleontology</i> , 1993, 67, 327-328.	0.8	0