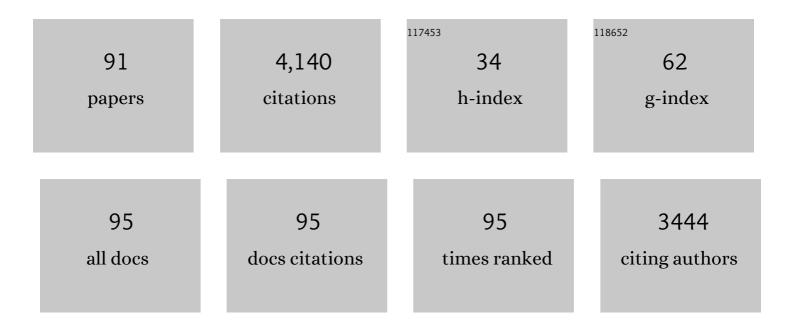
## Paul C Dechow

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Fibroblast growth factor 21 promotes bone loss by potentiating the effects of peroxisome proliferator-activated receptor Î3. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 3143-3148.	3.3	331
2	Modeling elastic properties in finite-element analysis: How much precision is needed to produce an accurate model?. The Anatomical Record Part A: Discoveries in Molecular, Cellular, and Evolutionary Biology, 2005, 283A, 275-287.	2.0	243
3	The feeding biomechanics and dietary ecology of <i>Australopithecus africanus</i> . Proceedings of the United States of America, 2009, 106, 2124-2129.	3.3	232
4	PGC1Î <sup>2</sup> Mediates PPARÎ <sup>3</sup> Activation of Osteoclastogenesis and Rosiglitazone-Induced Bone Loss. Cell Metabolism, 2010, 11, 503-516.	7.2	216
5	Finite element analysis in functional morphology. The Anatomical Record Part A: Discoveries in Molecular, Cellular, and Evolutionary Biology, 2005, 283A, 259-274.	2.0	203
6	Biphasic and Dosage-Dependent Regulation of Osteoclastogenesis by β-Catenin. Molecular and Cellular Biology, 2011, 31, 4706-4719.	1.1	161
7	Material properties of the human cranial vault and zygoma. The Anatomical Record, 2003, 274A, 785-797.	2.3	157
8	Occlusal force and craniofacial biomechanics during growth in rhesus monkeys. American Journal of Physical Anthropology, 1990, 83, 219-237.	2.1	132
9	Elastic properties and masticatory bone stress in the Macaque mandible. American Journal of Physical Anthropology, 2000, 112, 553-574.	2.1	124
10	Modeling masticatory muscle force in finite element analysis: Sensitivity analysis using principal coordinates analysis. The Anatomical Record Part A: Discoveries in Molecular, Cellular, and Evolutionary Biology, 2005, 283A, 288-299.	2.0	121
11	The Feeding Biomechanics and Dietary Ecology of <scp><i>P</i></scp> <i>aranthropus boisei</i> . Anatomical Record, 2015, 298, 145-167.	0.8	100
12	Masticatory biomechanics and its relevance to early hominid phylogeny: An examination of palatal thickness using finite-element analysis. Journal of Human Evolution, 2007, 52, 585-599.	1.3	98
13	Viewpoints: Diet and dietary adaptations in early hominins: The hard food perspective. American Journal of Physical Anthropology, 2013, 151, 339-355.	2.1	89
14	In vivo bone strain and finite-element modeling of the craniofacial haft in catarrhine primates. Journal of Anatomy, 2011, 218, 112-141.	0.9	83
15	Material properties of the inner and outer cortical tables of the human parietal bone. The Anatomical Record, 2002, 268, 7-15.	2.3	82
16	Material properties of the dentate maxilla. The Anatomical Record Part A: Discoveries in Molecular, Cellular, and Evolutionary Biology, 2006, 288A, 962-972.	2.0	76
17	The Structural Rigidity of the Cranium of <i>Australopithecus africanus:</i> Implications for Diet, Dietary Adaptations, and the Allometry of Feeding Biomechanics. Anatomical Record, 2010, 293, 583-593.	0.8	70
18	Inheritance of sutural pattern at the pterion in rhesus monkey skulls. The Anatomical Record Part A: Discoveries in Molecular, Cellular, and Evolutionary Biology, 2006, 288A, 1042-1049.	2.0	66

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19	In vitro strain measurements in the condylar process of the human mandible. Archives of Oral Biology, 1994, 39, 853-867.	0.8	65
20	Elastic properties of external cortical bone in the craniofacial skeleton of the rhesus monkey. American Journal of Physical Anthropology, 2006, 131, 402-415.	2.1	61
21	Fusion patterns of craniofacial sutures in rhesus monkey skulls of known age and sex from Cayo Santiago. American Journal of Physical Anthropology, 2006, 131, 469-485.	2.1	57
22	A method of bite force measurement in primates. Journal of Biomechanics, 1983, 16, 797-802.	0.9	55
23	A comparison of cortical elastic properties in the craniofacial skeletons of three primate species and its relevance to the study of human evolution. Journal of Human Evolution, 2006, 51, 375-382.	1.3	51
24	Adaptation of the suprahyoid muscle complex to mandibular advancement surgery. American Journal of Orthodontics and Dentofacial Orthopedics, 1987, 92, 134-143.	0.8	50
25	Biomechanical Implications of Intraspecific Shape Variation in Chimpanzee Crania: Moving Toward an Integration of Geometric Morphometrics and Finite Element Analysis. Anatomical Record, 2015, 298, 122-144.	0.8	47
26	Edentulation Alters Material Properties of Cortical Bone in the Human Craniofacial Skeleton: Functional Implications for Craniofacial Structure in Primate Evolution. Anatomical Record, 2010, 293, 618-629.	0.8	45
27	An investigation of the oral pathologies occurring in bulimia nervosa. International Journal of Eating Disorders, 1990, 9, 191-199.	2.1	43
28	Mechanical evidence that Australopithecus sediba was limited in its ability to eat hard foods. Nature Communications, 2016, 7, 10596.	5.8	43
29	Human feeding biomechanics: performance, variation, and functional constraints. PeerJ, 2016, 4, e2242.	0.9	43
30	Regional, ontogenetic, and sexâ€related variations in elastic properties of cortical bone in baboon mandibles. American Journal of Physical Anthropology, 2010, 141, 526-549.	2.1	41
31	Osteoclast Progenitors Reside in the Peroxisome Proliferator-Activated Receptor Î <sup>3</sup> -Expressing Bone Marrow Cell Population. Molecular and Cellular Biology, 2011, 31, 4692-4705.	1.1	41
32	HDAC7 Inhibits Osteoclastogenesis by Reversing RANKL-Triggered Î <sup>2</sup> -Catenin Switch. Molecular Endocrinology, 2013, 27, 325-335.	3.7	40
33	Orexin Regulates Bone Remodeling via a Dominant Positive Central Action and a Subordinate Negative Peripheral Action. Cell Metabolism, 2014, 19, 927-940.	7.2	38
34	How does the amount of surgical insult affect bone around moving teeth?. American Journal of Orthodontics and Dentofacial Orthopedics, 2014, 145, S92-S99.	0.8	38
35	Material properties of mandibular cortical bone in the American alligator, Alligator mississippiensis. Bone, 2010, 46, 860-867.	1.4	36
36	In vivo bone strain and finite element modeling of a rhesus macaque mandible during mastication. Zoology, 2017, 124, 13-29.	0.6	36

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37	Bone strain following application of a rigid bone plate: An in vitro study in human mandibles. Journal of Oral and Maxillofacial Surgery, 1992, 50, 1066-1073.	0.5	34
38	A finite element analysis of masticatory stress hypotheses. American Journal of Physical Anthropology, 2011, 145, 1-10.	2.1	34
39	Review of <i>In Vivo</i> Bone Strain Studies and Finite Element Models of the Zygomatic Complex in Humans and Nonhuman Primates: Implications for Clinical Research and Practice. Anatomical Record, 2016, 299, 1753-1778.	0.8	32
40	Probabilistic finite element analysis of a craniofacial finite element model. Journal of Theoretical Biology, 2012, 300, 242-253.	0.8	30
41	Twist1 Is Essential for Tooth Morphogenesis and Odontoblast Differentiation. Journal of Biological Chemistry, 2015, 290, 29593-29602.	1.6	28
42	Ontogeny and diachronic changes in sexual dimorphism in the craniofacial skeleton of rhesus macaques from Cayo Santiago, Puerto Rico. Journal of Human Evolution, 2007, 53, 350-361.	1.3	27
43	Additional fossilTheropithecus from Hopefield, South Africa: A comparison with other African sites and a reevaluation of its taxonomic status. American Journal of Physical Anthropology, 1984, 63, 405-435.	2.1	26
44	Occlusal force after mandibular advancement in adult rhesus monkeys. Journal of Oral and Maxillofacial Surgery, 1986, 44, 887-893.	0.5	24
45	Microwear, mechanics and the feeding adaptations of Australopithecus africanus. Journal of Human Evolution, 2012, 62, 165-168.	1.3	24
46	Short-term stability and muscle adaptation after mandibular advancement surgery with and without suprahyoid myotomy in juvenile Macaca mulatta. Oral Surgery, Oral Medicine, and Oral Pathology, 1989, 68, 135-149.	0.6	23
47	Force level and strain patterns during bilateral mandibular osteodistraction. Journal of Oral and Maxillofacial Surgery, 2000, 58, 171-178.	0.5	23
48	Two distalization methods compared in a novel patient-specific finite element analysis. American Journal of Orthodontics and Dentofacial Orthopedics, 2019, 156, 326-336.	0.8	23
49	Biomechanical Strain and Morphologic Changes with Age in Rat Calvarial Bone and Sutures. Plastic and Reconstructive Surgery, 2007, 119, 2167-2178.	0.7	22
50	Estimation of body weights from craniometric variables in baboons. American Journal of Physical Anthropology, 1983, 60, 113-123.	2.1	21
51	Biomechanical implications of cortical elastic properties of the macaque mandible. Zoology, 2017, 124, 3-12.	0.6	20
52	Craniofacial Strain Patterns During Premolar Loading: Implications for Human Evolution. , 2008, , 173-198.		20
53	<scp>T</scp> he <scp>B</scp> iomechanics of <scp>B</scp> ony <scp>F</scp> acial " <scp>B</scp> uttresses―in <scp>S</scp> outh <scp>A</scp> frican <scp>A</scp> ustralopiths: <scp>A</scp> n <scp>E</scp> xperimental <scp>S</scp> tudy <scp>U</scp> sing <scp>F</scp> inite <scp>E</scp> lement <scp>A</scp> nalysis. Anatomical Record. 2017. 300. 171-195.	0.8	19
54	Surface Strain on Bone and Sutures in a Monkey Facial Skeleton: An In Vitro Approach and its Relevance to Finite Element Analysis. , 2008, , 149-172.		19

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55	A comparison of stimulated bite force after mandibular advancement using rigid and nonrigid fixation. Journal of Oral and Maxillofacial Surgery, 1988, 46, 26-32.	0.5	18
56	The mandibles of castrated male rhesus macaques ( <scp><i>M</i></scp> <i>acaca mulatta</i> ): The effects of orchidectomy on bone and teeth. American Journal of Physical Anthropology, 2016, 159, 31-51.	2.1	18
57	Effects of latency on the quality and quantity ofÂbone produced by dentoalveolar distraction osteogenesis. American Journal of Orthodontics and Dentofacial Orthopedics, 2011, 140, 470-478.	0.8	17
58	Biomechanics of the mandible of Macaca mulatta during the power stroke of mastication: Loading, deformation, and strain regimes and the impact of food type. Journal of Human Evolution, 2020, 147, 102865.	1.3	17
59	Structural properties of mandibular bone following application of a bone plate. Journal of Oral and Maxillofacial Surgery, 1995, 53, 1044-1051.	0.5	16
60	Elastic anisotropy and off-axis ultrasonic velocity distribution in human cortical bone. Journal of Anatomy, 2011, 218, 26-39.	0.9	14
61	The Winds of Change Revisited: Progress Towards Building a Culture of Evidenceâ€Based Dentistry. Journal of Dental Education, 2015, 79, 499-509.	0.7	14
62	Biomechanical effects of fixed partial denture therapy on strain patterns of the mandible. Journal of Prosthetic Dentistry, 2006, 95, 55-62.	1.1	13
63	Development, Structure, and Function of the Zygomatic Bones: What is New and Why Do We Care?. Anatomical Record, 2016, 299, 1611-1615.	0.8	12
64	Electromyography of the suprahyoid musculature following mandibular advancement with and without rigid fixation. Journal of Oral and Maxillofacial Surgery, 1990, 48, 49-53.	0.5	11
65	Three-Dimensional Evaluation of Mandibular Bone Regenerated By Bone Transport Distraction Osteogenesis. Calcified Tissue International, 2011, 89, 43-52.	1.5	10
66	Architecture and Microstructure of Cortical Bone in Reconstructed Canine Mandibles After Bone Transport Distraction Osteogenesis. Calcified Tissue International, 2011, 89, 379-388.	1.5	10
67	Relationship Between Three-Dimensional Microstructure and Elastic Properties of Cortical Bone in the Human Mandible and Femur. , 2008, , 265-292.		10
68	Biomechanical Configurations of Mandibular Transport Distraction Osteogenesis Devices. Tissue Engineering - Part B: Reviews, 2010, 16, 273-283.	2.5	9
69	Bone Regeneration and Docking Site Healing After Bone Transport Distraction Osteogenesis in the Canine Mandible. Journal of Oral and Maxillofacial Surgery, 2012, 70, 429-439.	0.5	9
70	Elevation of a full-thickness mucoperiosteal flap alone accelerates orthodontic tooth movement. American Journal of Orthodontics and Dentofacial Orthopedics, 2017, 152, 49-57.	0.8	9
71	<scp>D</scp> ivided <scp>Z</scp> ygomatic <scp>B</scp> one in <scp>P</scp> rimates <scp>W</scp> ith <scp>I</scp> mplications of <scp>S</scp> kull <scp>M</scp> orphology and <scp>B</scp> iomechanics. Anatomical Record, 2016, 299, 1801-1829.	0.8	8
72	Creating an evidence-based dentistry culture at Baylor College of Dentistry: the winds of change. Journal of Dental Education, 2011, 75, 279-90.	0.7	8

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73	Elastic Properties of Chimpanzee Craniofacial Cortical Bone. Anatomical Record, 2016, 299, 1718-1733.	0.8	7
74	Divided zygoma in Holocene human populations from Northern China. American Journal of Human Biology, 2019, 31, e23314.	0.8	6
75	Biomechanical characteristics of regenerated cortical bone in the canine mandible. Journal of Tissue Engineering and Regenerative Medicine, 2011, 5, 551-559.	1.3	5
76	Internal Bone Architecture in the Zygoma of Human and <i>Pan</i> . Anatomical Record, 2016, 299, 1704-1717.	0.8	5
77	The winds of change revisited: progress towards building a culture of evidence-based dentistry. Journal of Dental Education, 2015, 79, 499-509.	0.7	5
78	Changes in Biomechanical Strain and Morphology of Rat Calvarial Sutures and Bone After Tgfâ€Î²3 Inhibition of Posterior Interfrontal Suture Fusion. Anatomical Record, 2012, 295, 928-938.	0.8	4
79	Odontogenic abscesses in rhesus macaques ( <scp><i>Macaca mulatta</i></scp> ) of Cayo Santiago. American Journal of Physical Anthropology, 2018, 167, 441-457.	2.1	4
80	Dentate Transport Discs Can Be Used to Reconstruct Large Segmental Mandibular Defects. Journal of Oral and Maxillofacial Surgery, 2015, 73, 745-758.	0.5	3
81	Masticatory properties in pre-modern Holocene populations from Northern China. HOMO- Journal of Comparative Human Biology, 2019, 70, 15-30.	0.3	3
82	Osseointegration of Dental Implants Placed into Canine Mandibular Bone Regenerated by Bone Transport Distraction Osteogenesis. International Journal of Oral and Maxillofacial Implants, 2013, 28, 677-686.	0.6	2
83	Vacuum-induced Suction Stimulates Increased Numbers of Blood Vessels in Healthy Dog Gingiva. Wounds, 2012, 24, 99-109.	0.2	2
84	Mechanical compensation in the evolution of the early hominin feeding apparatus. Proceedings of the Royal Society B: Biological Sciences, 2022, 289, .	1.2	2
85	Changes in Mandibular Cortical Bone Density and Elastic Properties during Growth. , 2017, , 128-147.		1
86	Biomechanics of the Canine Mandible During Bone Transport Distraction Osteogenesis. Journal of Biomechanical Engineering, 2014, 136, .	0.6	0
87	In Vitro Mechanical Evaluation of Mandibular Bone Transport Devices. Journal of Medical Devices, Transactions of the ASME, 2014, 8, .	0.4	0
88	Biomechanical characteristics of cortical bone regenerate after mandibular distraction osteogenesis in dogs. FASEB Journal, 2009, 23, 650.3.	0.2	0
89	Considering the constrained lever model: Feeding biomechanics of OH 5 assessed using finite element analysis. FASEB Journal, 2013, 27, 520.6.	0.2	0
90	Regional material heterogeneity in craniofacial cortical bone of the genus Pan. FASEB Journal, 2013, 27, 756.7.	0.2	0

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91	The Vulnerability of the Temporomandibular Joint in Recent Northern China Populations. FASEB Journal, 2018, 32, 514.3.	0.2	0