

J G M Thewissen

List of Publications by Year in descending order

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96
papers

4,223
citations

101384

36
h-index

123241

61
g-index

103
all docs

103
docs citations

103
times ranked

2537
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Whales originated from aquatic artiodactyls in the Eocene epoch of India. <i>Nature</i> , 2007, 450, 1190-1194. | 13.7 | 276 |
| 2 | Skeletons of terrestrial cetaceans and the relationship of whales to artiodactyls. <i>Nature</i> , 2001, 413, 277-281. | 13.7 | 255 |
| 3 | Vestibular evidence for the evolution of aquatic behaviour in early cetaceans. <i>Nature</i> , 2002, 417, 163-166. | 13.7 | 202 |
| 4 | Fossil Evidence for the Origin of Aquatic Locomotion in Archaeocete Whales. <i>Science</i> , 1994, 263, 210-212. | 6.0 | 166 |
| 5 | Morphoregulation of teeth: modulating the number, size, shape and differentiation by tuning Bmp activity. <i>Evolution & Development</i> , 2005, 7, 440-457. | 1.1 | 159 |
| 6 | Developmental basis for hind-limb loss in dolphins and origin of the cetacean bodyplan. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 8414-8418. | 3.3 | 148 |
| 7 | From Land to Water: the Origin of Whales, Dolphins, and Porpoises. <i>Evolution: Education and Outreach</i> , 2009, 2, 272-288. | 0.3 | 125 |
| 8 | Early Eocene warming events and the timing of terrestrial faunal exchange between India and Asia. <i>Geology</i> , 2011, 39, 15-18. | 2.0 | 110 |
| 9 | Cranial anatomy of <i>Ignacius graybullianus</i> and the affinities of the Plesiadapiformes. <i>American Journal of Physical Anthropology</i> , 1992, 89, 477-498. | 2.1 | 100 |
| 10 | Locomotor evolution in the earliest cetaceans: functional model, modern analogues, and paleontological evidence. <i>Paleobiology</i> , 1997, 23, 482-490. | 1.3 | 93 |
| 11 | The Early Radiations of Cetacea (Mammalia): Evolutionary Pattern and Developmental Correlations. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2002, 33, 73-90. | 6.7 | 93 |
| 12 | Sound transmission in archaic and modern whales: Anatomical adaptations for underwater hearing. <i>Anatomical Record</i> , 2007, 290, 716-733. | 0.8 | 89 |
| 13 | Phylogenetic aspects of Cetacean origins: A morphological perspective. <i>Journal of Mammalian Evolution</i> , 1994, 2, 157-184. | 1.0 | 88 |
| 14 | A Retroposon Analysis of Afrotherian Phylogeny. <i>Molecular Biology and Evolution</i> , 2005, 22, 1823-1833. | 3.5 | 88 |
| 15 | Origin of underwater hearing in whales. <i>Nature</i> , 1993, 361, 444-445. | 13.7 | 85 |
| 16 | Eocene evolution of whale hearing. <i>Nature</i> , 2004, 430, 776-778. | 13.7 | 85 |
| 17 | Olfaction and brain size in the bowhead whale (<i>Balaena mysticetus</i>). <i>Marine Mammal Science</i> , 2011, 27, 282-294. | 0.9 | 80 |
| 18 | Distinctive cranial and cervical innervation of wing muscles: new evidence for bat monophyly. <i>Science</i> , 1991, 251, 934-936. | 6.0 | 76 |

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|----|--|------|-----------|
| 19 | Eocene mammal faunas from northern Indo-Pakistan. <i>Journal of Vertebrate Paleontology</i> , 2001, 21, 347-366. | 0.4 | 76 |
| 20 | The role of phenacodontids in the origin of the modern orders of ungulate mammals. <i>Journal of Vertebrate Paleontology</i> , 1992, 12, 494-504. | 0.4 | 75 |
| 21 | Fossil sirenian of the west Atlantic and Caribbean region. V. The most primitive known sirenian, <i>Prorastomus sirenioides</i> Owen, 1855. <i>Journal of Vertebrate Paleontology</i> , 1994, 14, 427-449. | 0.4 | 73 |
| 22 | Evolution of cetacean osmoregulation. <i>Nature</i> , 1996, 381, 379-380. | 13.7 | 72 |
| 23 | Anthracobunids from the Middle Eocene of India and Pakistan Are Stem Perissodactyls. <i>PLoS ONE</i> , 2014, 9, e109232. | 1.1 | 63 |
| 24 | Development and evolution of the unique cetacean dentition. <i>PeerJ</i> , 2013, 1, e24. | 0.9 | 59 |
| 25 | Isotopic Approaches to Understanding the Terrestrial-to-Marine Transition of the Earliest Cetaceans. , 1998, , 399-422. | | 51 |
| 26 | Ankle Morphology of the Earliest Cetaceans and Its Implications for the Phylogenetic Relations among Ungulates. <i>Systematic Biology</i> , 1999, 48, 21-30. | 2.7 | 48 |
| 27 | Whale Origins as a Poster Child for Macroevolution. <i>BioScience</i> , 2001, 51, 1037. | 2.2 | 47 |
| 28 | Evolutionary aspects of the development of teeth and baleen in the bowhead whale. <i>Journal of Anatomy</i> , 2017, 230, 549-566. | 0.9 | 47 |
| 29 | Skull and endocranial cast of <i>Eoryctes melanus</i> , a new palaeoryctid (Mammalia: Insectivora) from the early Eocene of western North America. <i>Journal of Vertebrate Paleontology</i> , 1989, 9, 459-470. | 0.4 | 45 |
| 30 | Additional holotype remains of <i>Ambulocetus natans</i> (Cetacea, Ambulocetidae), and their implications for locomotion in early whales. <i>Journal of Vertebrate Paleontology</i> , 2002, 22, 405-422. | 0.4 | 43 |
| 31 | Evolution of dental wear and diet during the origin of whales. <i>Paleobiology</i> , 2011, 37, 655-669. | 1.3 | 43 |
| 32 | An analysis of von Economo neurons in the cerebral cortex of cetaceans, artiodactyls, and perissodactyls. <i>Brain Structure and Function</i> , 2015, 220, 2303-2314. | 1.2 | 43 |
| 33 | Intervertebral and Epiphyseal Fusion in the Postnatal Ontogeny of Cetaceans and Terrestrial Mammals. <i>Journal of Mammalian Evolution</i> , 2015, 22, 93-109. | 1.0 | 43 |
| 34 | Postcranial Osteology of the most Primitive Artiodactyl: <i>Diacodexis pakistanensis</i> (Dichobunidae). <i>Journal of Veterinary Medicine Series C: Anatomia Histologia Embryologia</i> , 1990, 19, 37-48. | 0.3 | 41 |
| 35 | Even-toed fingerprints on whale ancestry. <i>Nature</i> , 1997, 388, 622-623. | 13.7 | 39 |
| 36 | Sensory Hairs in the Bowhead Whale, <i>Balaena mysticetus</i> (Cetacea, Mammalia). <i>Anatomical Record</i> , 2015, 298, 1327-1335. | 0.8 | 39 |

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|----|---|------|-----------|
| 37 | Cranial anatomy of middle Eocene <i>Remingtonocetus</i> (Cetacea, Mammalia) from Kutch, India. <i>Journal of Paleontology</i> , 2011, 85, 703-718. | 0.5 | 38 |
| 38 | Severe Bone Loss as Part of the Life History Strategy of Bowhead Whales. <i>PLoS ONE</i> , 2016, 11, e0156753. | 1.1 | 38 |
| 39 | New skeletal material of <i>Andrewsiphius</i> and <i>Kutchicetus</i> , two Eocene cetaceans from India. <i>Journal of Paleontology</i> , 2009, 83, 635-663. | 0.5 | 37 |
| 40 | The Origin of Flight in Bats. <i>BioScience</i> , 1992, 42, 340-345. | 2.2 | 35 |
| 41 | A NEW NEAR-SHORE MARINE FAUNA AND FLORA FROM THE EARLY NEOGENE OF NORTHWESTERN VENEZUELA. <i>Journal of Paleontology</i> , 2000, 74, 957-968. | 0.5 | 34 |
| 42 | Paleobiogeography of Indo-Pakistan: A Response to Briggs, Patterson, and Owen. <i>Systematic Biology</i> , 1992, 41, 248-251. | 2.7 | 33 |
| 43 | Cranial anatomy of Pakicetidae (Cetacea, Mammalia). <i>Journal of Vertebrate Paleontology</i> , 2006, 26, 746-759. | 0.4 | 33 |
| 44 | Eocene and Oligocene sirenians (Mammalia) from Kachchh, India. <i>Journal of Vertebrate Paleontology</i> , 2006, 26, 400-410. | 0.4 | 32 |
| 45 | Mammalian frontal diploic vein and the human foramen caecum. <i>The Anatomical Record</i> , 1989, 223, 242-244. | 2.3 | 31 |
| 46 | Beyond thermoregulation: metabolic function of cetacean blubber in migrating bowhead and beluga whales. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2017, 187, 235-252. | 0.7 | 30 |
| 47 | Whale ankles and evolutionary relationships. <i>Nature</i> , 1998, 395, 452-452. | 13.7 | 29 |
| 48 | Evolutionary changes of the importance of olfaction in cetaceans based on the olfactory marker protein gene. <i>Gene</i> , 2012, 492, 349-353. | 1.0 | 27 |
| 49 | Enamel microstructure of <i>Pakicetus</i> (Mammalia: Archaeoceti). <i>Journal of Paleontology</i> , 1995, 69, 1154-1163. | 0.5 | 26 |
| 50 | Middle Eocene Cetaceans from the Harudi and Subathu Formations of India. , 1998, , 213-233. | | 26 |
| 51 | Development of the Skull of the Pantropical Spotted Dolphin (<i>Stenella attenuata</i>). <i>Anatomical Record</i> , 2011, 294, 1743-1756. | 0.8 | 26 |
| 52 | Adhesive Devices on the Thumb of Vespertilionoid Bats (Chiroptera). <i>Journal of Mammalogy</i> , 1995, 76, 925. | 0.6 | 25 |
| 53 | The origin and early evolution of whales: macroevolution documented on the Indian Subcontinent. <i>Journal of Biosciences</i> , 2009, 34, 673-686. | 0.5 | 25 |
| 54 | Validation of Growth Layer Group (GLG) depositional rate using daily incremental growth lines in the dentin of beluga (<i>Delphinapterus leucas</i> (Pallas, 1776)) teeth. <i>PLoS ONE</i> , 2018, 13, e0190498. | 1.1 | 24 |

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|----|---|-----|-----------|
| 55 | Developmental biology enriches paleontology. <i>Journal of Vertebrate Paleontology</i> , 2012, 32, 1223-1234. | 0.4 | 23 |
| 56 | Enigmatic new ungulates from the Early Middle Eocene of central Anatolia, Turkey. <i>Journal of Vertebrate Paleontology</i> , 2001, 21, 578-590. | 0.4 | 22 |
| 57 | Review and experimental evaluation of the embryonic development and evolutionary history of flipper development and hyperphalangy in dolphins (Cetacea: Mammalia). <i>Genesis</i> , 2018, 56, e23076. | 0.8 | 22 |
| 58 | A New Miocene Sirenian from Kutch, India. <i>Acta Palaeontologica Polonica</i> , 2009, 54, 7-13. | 0.4 | 21 |
| 59 | Temporal data in phylogenetic systematics: an example from the mammalian fossil record. <i>Journal of Paleontology</i> , 1992, 66, 1-8. | 0.5 | 19 |
| 60 | Eocene actinopterygian fishes from Pakistan, with the description of a new genus and species of channid (channiformes). <i>Journal of Vertebrate Paleontology</i> , 2008, 28, 41-52. | 0.4 | 19 |
| 61 | Allometric patterns of fetal head growth in mysticetes and odontocetes: Comparison of <i>Balaena mysticetus</i> and <i>Stenella attenuata</i> . <i>Marine Mammal Science</i> , 2011, 27, 819-827. | 0.9 | 19 |
| 62 | <i>Attockicetus praecursor</i> , A New Remingtonocetid Cetacean from Marine Eocene Sediments of Pakistan. , 2000, 7, 133-146. | | 18 |
| 63 | The Implications of the Propatagial Muscles of Flying and Gliding Mammals for Archontan Systematics. , 1993, , 91-109. | | 17 |
| 64 | <i>Indocetus</i> (Cetacea, Mammalia) endocasts from Kachchh (India). <i>Journal of Vertebrate Paleontology</i> , 1996, 16, 582-584. | 0.4 | 17 |
| 65 | Dental morphology of Remingtonocetidae (Cetacea, Mammalia). <i>Journal of Paleontology</i> , 2001, 75, 463-465. | 0.5 | 17 |
| 66 | DENTAL MORPHOLOGY OF REMINGTONOCETIDAE (CETACEA, MAMMALIA). <i>Journal of Paleontology</i> , 2001, 75, 463-465. | 0.5 | 14 |
| 67 | Organization and distribution of glomeruli in the bowhead whale olfactory bulb. <i>PeerJ</i> , 2015, 3, e897. | 0.9 | 14 |
| 68 | Limb Osteology and function of the primitive Paleocene ungulate <i>Pleuraspidotherium</i> with notes on <i>Tricuspidon</i> and <i>Dissacus</i> (Mammalia). <i>Geobios</i> , 1991, 24, 483-495. | 0.7 | 13 |
| 69 | Comments and Reply on "Paleontological view of the ages of the Deccan Traps, the Cretaceous/Tertiary boundary, and the India-Asia collision". <i>Geology</i> , 1990, 18, 185. | 2.0 | 12 |
| 70 | Comparative and Functional Anatomy of Balance in Aquatic Mammals. , 2008, , 257-284. | | 11 |
| 71 | Skull of <i>Megalohyrax eocaenus</i> (Hyracoidea, Mammalia) from the Oligocene of Egypt. <i>Journal of Vertebrate Paleontology</i> , 2001, 21, 98-106. | 0.4 | 10 |
| 72 | LATERAL MANDIBULAR WALL THICKNESS IN <i>TURSIOPS TRUNCATUS</i> : VARIATION DUE TO SEX AND AGE. <i>Marine Mammal Science</i> , 2004, 20, 491-497. | 0.9 | 10 |

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|----|--|------|-----------|
| 73 | A new Isectolophid Tapiromorph (Perissodactyla, Mammalia) from the Early Eocene of Pakistan. <i>Journal of Paleontology</i> , 2001, 75, 407-417. | 0.5 | 9 |
| 74 | Age estimation in bowhead whales using tympanic bulla histology and baleen isotopes. <i>Marine Mammal Science</i> , 2018, 34, 347-364. | 0.9 | 9 |
| 75 | Ontogeny of the Orbital Glands and Their Environs in the Pantropical Spotted Dolphin (<i>Stenella</i>). <i>Tj ETQq1 1 0.784314 rgBT /Overl</i> | 0.8 | 9 |
| 76 | New Oligocene mustelid from western India. <i>Journal of Vertebrate Paleontology</i> , 2008, 28, 565-567. | 0.4 | 7 |
| 77 | The spiral ganglion and Rosenthal's canal in beluga whales. <i>Journal of Morphology</i> , 2015, 276, 1455-1466. | 0.6 | 7 |
| 78 | Cetacean Origins. , 1998, , 451-464. | | 6 |
| 79 | A NEW ISECTOLOPHID TAPIROMORPH (PERISSODACTYLA, MAMMALIA) FROM THE EARLY EOCENE OF PAKISTAN. <i>Journal of Paleontology</i> , 2001, 75, 407-417. | 0.5 | 6 |
| 80 | The Physics of Sound in Air and Water. , 2008, , 174-181. | | 6 |
| 81 | Structure of the external auditory meatus of the Bowhead whale (<i>Balaena mysticetus</i>) and its relation to their seasonal migration. <i>Journal of Anatomy</i> , 2019, 234, 201-215. | 0.9 | 6 |
| 82 | Thewissen et al. reply. <i>Nature</i> , 2009, 458, E5-E5. | 13.7 | 5 |
| 83 | Unique Biochemical and Mineral Composition of Whale Ear Bones. <i>Physiological and Biochemical Zoology</i> , 2014, 87, 576-584. | 0.6 | 5 |
| 84 | Unexpected evolutionary patterns of dental ontogenetic traits in cetartiodactyl mammals. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2019, 286, 20182417. | 1.2 | 5 |
| 85 | The Endocranial Cast of Indohyus (Artiodactyla, Raoellidae): The Origin of the Cetacean Brain. <i>Journal of Mammalian Evolution</i> , 2021, 28, 831-843. | 1.0 | 5 |
| 86 | The pattern of brain-size change in the early evolution of cetaceans. <i>PLoS ONE</i> , 2021, 16, e0257803. | 1.1 | 5 |
| 87 | Indohyus, Endemic Radiation of Raoellid Artiodactyls in the Eocene of India and Pakistan. <i>Vertebrate Paleobiology and Paleoanthropology</i> , 2020, , 337-346. | 0.1 | 5 |
| 88 | Olfactory epithelium and ontogeny of the nasal chambers in the bowhead whale (<sc><i>Balaena</i>). <i>Tj ETQq0 0 0 rgBT /Overl</i> | 0.8 | 4 |
| 89 | Orycteropus afer. <i>Mammalian Species</i> , 0, , . | 0.4 | 2 |
| 90 | Paleobiogeography of Indo-Pakistan: A Response to Briggs, Patterson, and Owen. <i>Systematic Biology</i> , 1992, 41, 248. | 2.7 | 2 |

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|----|---|-----|-----------|
| 91 | Carpal Morphology and Function in the Earliest Cetaceans. <i>Journal of Vertebrate Paleontology</i> , 2020, 40, e1833019. | 0.4 | 2 |
| 92 | Introduction On Becoming Aquatic. , 2008, , 1-25. | | 1 |
| 93 | The role of desmosomes in the ear plug formation in the bowhead whale (<i>Balaena mysticetus</i>). <i>Anatomical Record</i> , 2020, 303, 3035-3043. | 0.8 | 1 |
| 94 | Toward an Integrative Approach. , 2008, , 333-340. | | 0 |
| 95 | Berta, A.2012. <i>Return to the Sea: the Life and Evolutionary Times of Marine Mammals</i> . University of California Press, Berkeley, California, 205 pp. ISBN 978-0-520-27057-2, price (hardbound), \$31.26. <i>Journal of Mammalogy</i> , 2013, 94, 1179-1179. | 0.6 | 0 |
| 96 | 3D models related to the publication: The endocranial cast of <i>Indohyus</i> (Artiodactyla, Raoellidae): the origin of the cetacean brain. <i>MorphoMuseuM</i> , 2021, 7, e137. | 0.1 | 0 |