

### 3. References cited

Bennett, S.C.

Taxonomy and Systematics of the Late Cretaceous pterosaur Pteranodon (Pterosauria, Pterodactyloidea)  
*Occasional Papers of the Museum of Natural History University of Kansas*; 1994; no.169, p.1-70

Bennett, S.C.

A statistical study of Rhamphorhynchus from the Solnhofen Limestone of Germany: Year-classes of a single large species

*Journal of Paleontology*; 1995; v.69, no.3, p.569-580

Bennett, S.C.

Pterosaur Flight: The Role of Actinofibrils in Wing Function,  
*Historical Biology*, Vol. 14, 2000, pp. 255-284.

Bennett, S.C.

The Osteology and Functional Morphology of the Late Cretaceous Pterosaur Pteranodon, Parts I and II,  
*Palaeontographica Abt. A*, 260, Lfg. 1-6, pp 1-112, 113-153, January 2001.

Birch, JM; Dickinson, MH

The influence of wing-wake interactions on the production of aerodynamic forces in flapping flight.

*Journal of Experimental Biology*; July 2003; v.206, no.13, p.2257-2272

Birch, JM; Dickson, WB; Dickinson, MH

Force production and flow structure of the leading edge vortex on flapping wings at high and low Reynolds numbers

*Journal of Experimental Biology*; March 2004; v.207, no.7, p.1063-1072

Bramwell, C

Aerodynamics of Pteranodon,

*Biological Journal of the Linnean Society*; 1971; v.3, no.4, p.313-328

Bramwell, C

Flying Ability of Archaeopteryx, D

*Nature*; 1971; v.231, no.5298, p.128-&

Bramwell, C ; Whitfield, G

Flight of Pteranodon,

*Biological Journal of the Linnean Society*; 1973; v.5, no.4, p.359

Bramwell, C ; Whitfield, G

Biomechanics of Pteranodon,

*Philosophical Transactions of the Royal Society of London B Biological Sciences*; 1974; v.267, no.890, p.503-581

A.N. Brooks, P.B. MacCready, P.B.S. Lissaman and W.R. Morgan,

Development of a Wing-Flapping Flying Replica of the Largest Pterosaur, AeroVironment Inc.

*AIAA/SAE/ASME/ASEE 21st Joint Propulsion Conference*, July 1985 Monterey, CA.

AIAA-85-1446

- Chatterjee, S. and R.J. Templin  
Posture, Locomotion, and Paleoecology of Pterosaurs,  
*Geological Society of America Special Paper 376*, 68 Pages, 2004  
ISBN 0-8137-2376-0
- Delp, SL; Loan, JP  
A graphics-based software system to develop and analyze models of musculoskeletal structures,  
*Computers in Biology and Medicine*; Jan. 1995; vol.25, no.1, p.21-34
- Dickinson, MH; Lehmann, FO; Sane, SP  
Wing rotation and the aerodynamic basis of insect flight  
*Science*; 18 June 1999; vol.284, no.5422, p.1954-60
- Dudley, R.  
The biomechanics of insect flight: Form, function, evolution  
*The biomechanics of insect flight: Form, function, evolution*; 2000; p.i-xii, 1-476
- Hankin, E.H., and D.M.S. Watson,  
On the flight of pterodactyls.  
*Aeronautical Journal*, 1914, 18: 324-335.
- Hazlehurst, G. A. and Rayner, J. M. V.  
An unusual flight mechanism in the Pterosauria  
*Palaeontology (Durham)*; 1992; v.35, no.4, p.927-941
- Hazlehurst, G. A. and Rayner, J. M. V.  
Flight characteristics of Triassic and Jurassic Pterosauria: An appraisal based on wing shape  
*Paleobiology*; 1992; v.18, no.4, p.447-463
- Hutchinson, J., Anderson, F. Clay and Delp, S. L.  
A 3-D dynamic analysis of musculoskeletal contributions to body support during bipedal locomotion.  
*Journal of Vertebrate Paleontology*; 12 September, 2003; v.23, no.3 Supplement, p.64A  
Conference: Sixty-Third Annual Meeting of the Society of Vertebrate Paleontology; October 15-18,  
2003; St. Paul, MN, USA
- Hutchinson, JR  
Biomechanical modeling and sensitivity analysis of bipedal running ability. I. Extant taxa  
*Journal of Morphology*; October 2004a; v.262, no.1, p.421-440
- Hutchinson, JR  
Biomechanical modeling and sensitivity analysis of bipedal running ability. II. Extinct taxa  
*Journal of Morphology*; October 2004b; v.262, no.1, p.441-461
- Hutchinson, J. R., Anderson, F.C., Blemker, S. S., Delp, S. L.,  
Musculoskeletal geometry and running ability of the Tyrannosaurus,  
*Paleobiology* (in press)
- Inman, DJ; Gern, FH; Robertshaw, HH; Kapania, RK; Pettit, G.; Natarajan, A.; Sulaeman, E.  
Comments on prospects of fully adaptive aircraft wings  
*Proceedings of the SPIE - The International Society for Optical Engineering*; 2001; vol.4332, p.1-9

Conference: Smart Structures and Materials 2001-Industrial and Commercial Applications of Smart Structures Technologies-; Mar 5-8 2001; Newport Beach, CA, United States

Jex, H.  
Making Pterodactyls Fly,  
*TWITT Meeting*, July 15th 2000

Kamakoti, R., Berg M., Ljungqvist, D., Shyy, W.  
A Computational Study for Biological Flapping Wing Flight,  
*Transactions of the Aeronautical and Astronautical Society of the Republic of China*,  
Vol.32, No.4, pp.265-279(2000)

Kellner A.W. A.; Tomida Y.  
Description of a new species of Anhangueridae (Pterodactyloidea) with comments on the Pterosaur Fauna from the Santana Formation (Aptian-Albian), Northeastern Brazil,  
*National Science Museum Monographs* No. 17, January 2000, ISSN 1342-9574

Kudva, JN; Sanders, B.; Pinkerton-Florance, J.; Garcia, E.  
The DARPA/AFRL/NASA Smart wing program - Final overview  
*Proceedings of the SPIE - The International Society for Optical Engineering*; 2002; vol.4698, p.37-43  
Conference: Smart Structures and Materials 2002: Industrial and Commercial Applications of Smart Structures Technologies; Mar 18-21 2002; San Diego, CA, United States

Kunz P., Kroo I.,  
Analysis, Design and Testing of Airfoils for Use in Ultra-Low Reynolds Numbers  
*Proceedings of a Workshop on Fixed and Flapping Flight at Low Reynolds Number*, Notre Dame, June 2000.

DeLaurier, J.,  
The Development and Testing of a Full-Scale Piloted Ornithopter,  
*Canadian Aeronautical and Space Jour.*, Vol. 45, No.2, June 1999, pp.72-82.

Livne, E; Weisshaar, TA  
Aeroelasticity of nonconventional airplane configurations - Past and future,  
Source: *Journal of Aircraft*; November/December 2003; v.40, no.6, p.1047-1065

MacCready P.,  
The Feasibility of Constructing a Flying Replica of the Quetzalcoatlus northropi -- The Largest of the Pterosaurs,  
*Aerovironment, Inc.*, AV-FR-84/599, 1984

MacCready P.,  
The Great Pterodactyl Project,  
*Engineering & Science*, 49(2), pp18-24, 1985.

McMasters J. H.; Cummings R. M.  
Airplane Design and the Biomechanics of Flight – A More Completely Multi-Disciplinary Perspective  
*AIAA 2004-0532*; 42nd Aerospace Sciences Meeting, 5-8 January, 2004, Reno, Nevada

Padian, K.  
A functional analysis of flying and walking in pterosaurs

*Paleobiology*; 1983a, 9, pp. 218-239.

Padian, K.

Osteology and functional morphology of *Dimorphodon macronyx* (Buckland) (Pterosauria: Rhamphorhynchoidea) based on new material in the Yale Peabody Museum  
*Postilla*; 1983b, 189, pp. 1-44.

Padian, K.

A comparative phylogenetic and functional approach to the origin of vertebrate flight.  
In Fenton, B., Racey, P.A., J.M.V. Rayner (eds.), *Recent Advances in the Study of Bats* (Cambridge University Press), 1987, pp. 3-22.

Padian, K.

Pterosaurs: were they functional birds or functional bats?  
In Rayner, J.M.V., and Wootton R.J. (eds.), *Biomechanics and Evolution*. (Cambridge University Press), 1991, Pp. 145-160

Padian, K.; Rayner, J. M. V.

The wings of pterosaurs  
*American Journal of Science*; 1993, 293-A, pp. 91-166.

Padian, K.; Rayner, J. M. V.

Structural fibers of the pterosaur wing: Anatomy and aerodynamics  
*Naturwissenschaften*; 1993; v.80, no.8, p.361-364

Pennycuik, C.J.

On the reconstruction of Pterosaurs and their manner of flight with notes on vortex wakes,  
*Biological Review*, 63 : 299-331, 1988.

Piazza, S.J., Delp, S.L.

Three-dimensional dynamic simulation of total knee replacement motion during a stepup task, *ASME Journal of Biomechanical Engineering*, vol. 123, pp. 599-606, 2001

Sane, S.P.; Dickinson, M.H.

The control of flight force by a flapping wing: Lift and drag production  
*Journal of Experimental Biology*; August, 2001; v.204, no.15, p.2607-2626

Sane, S.P.; Dickinson, M.H.

The aerodynamic effects of wing rotation and a revised quasi-steady model of flapping flight  
*Journal of Experimental Biology*; April, 2002; v.205, no.8, p.1087-1096

San Francisco Chronicle

Teens help expert build replica of flying reptile, Ulysses Torassa, *San Francisco Chronicle*, pp. B1 & B4, July 12th 2004

Stanewsky, E.

Aerodynamic benefits of adaptive wing technology  
*Aerospace Science and Technology*; Oct 2000; v.4, no.7, p.439-452

Stanewsky, E.

Adaptive wing and flow control technology

*Progress in Aerospace Sciences*; October 2001; v.37, no.7, p.583-667

Templin, R.J.

The spectrum of animal flight: insects to pterosaurs,

*Progress in Aerospace Sciences*, 36 (2000) 393-436

Thelen, DG; Anderson, FC; Delp, SL

Generating dynamic simulations of movement using computed muscle control,

*Journal of Biomechanics*; March 2003; vol.36, no.3, p.321-8

Tischlinger, H, and E. Frey.

Ein Rhamphorhynchus (Pterosauria, Reptilia) mit ungewöhnlicher Flughauterhaltung aus dem Solnhofener Plattenkalk.

*Archaeopteryx* 2002: 1-20.

Unwin, D. M.; Martill, D. M.; Bakhurina, N. N.

The structure of the wing membrane in pterosaurs,

*Journal of Vertebrate Paleontology*; 1993; v.13, no.3 SUPPL., p.61A

Conference: Fifty-third Annual Meeting of the Society of Vertebrate Paleontology; October 13-16, 1993; Albuquerque, New Mexico, USA

Unwin, D. M.; Bakhurina, N. N.; Martill, D.M.; Frey, E.

The Structure, Function and Evolutionary History of the Pterosaur Flight Apparatus

*Journal of Vertebrate Paleontology*; 1996; v.16, no.3

Unwin, DM

Pterosaurs: Back to the traditional model?,

*Trends in Ecology and Evolution*; July, 1999; v.14, no.7, p.263-268

Wang, ZJ; Birch, JM; Dickinson, MH

Unsteady forces and flows in low Reynolds number hovering flight: Two-dimensional computations vs robotic wing experiments.

*Journal of Experimental Biology*; January 2004; v.207, no.3, p.449-460

Warrick, D.R. and K.P Dial,

Kinematic, aerodynamic and anatomical mechanisms in the slow, maneuvering flight of pigeons,

*The Journal of Experimental Biology* 201:655-672, 1998.

Wellnhofer P., *Prehistoric Flying Reptiles*

Barnes & Nobles, 1991, ISBN 0-7607-0154-7

Witmer, L.M., Chatterjee, S., Franzosa, J. and Rowe, T.,

Neuroanatomy of Flying Reptiles and Implications for Flight, Posture and Behavior,

*Nature*, Vol. 425, 30 Oct. 2003, pp. 950-3.