

DAFTAR PUSTAKA

- Andersen, S. O., & Weis-Fogh, T. (1964). Resilin: A rubberlike protein in arthropod cuticle. *Adv. Insect Physiol.* 2, 1-65 .
- Andersen, S. O. (1963). Characterization of a new type of cross-linkage in resilin, a rubber-like protein. *Biochim. Biophys. Acta* 69, 249-262.
- Azuma, A. and T. Watanabe, (1988). Flight performance of a dragonfly. *J. exp. Biol.* 137: 221-252.
- Bao L., H.J. Song, Y.Y. Liang, P. Cheng, B. Xu, and B.G. Tong, (2006). Viscoelastic constitutive model related to deformation of insect wing under loading in flapping motion. *Applied Mathematics & Mechanics* 26 (1), 741-748.
- Brodsky, A.K., (1994). *The Evolution of Insect Flight*. Oxford University Press. New York.
- Buskirk, R.E. and Sherman, K.J., (1984). The influence of larval ecology on oviposition and mating strategies in dragonflies. *Insect behaviour Ecology* 39-51.
- Chen, Y., X. Wang, H. Ren, and L. XuDong, (2011). An organic junction between the vein and membrane of the dragonfly wing. *Chinese Science Bulletin* 56 (16), 1658-1660.
- Chen, Y., X. Wang, H. Ren, H. Ying, and S. Jia, (2012). Hierarchical dragonfly wing: microstructure-biomechanical behavior relations. *Journal of Bionic Engineering* 9, 185-191.
- Combes, S.A. and T.L. Daniel, (2003). Flexural stiffness in insect wings: I. Scaling and the influence of wing venation. *Journal of Experimental Biology* 206, 2979-2987.
- Corbet, P.S., (1962). *A Biology of Dragonflies*. H.F. & G. Witherby LTD. London. page: 67-75.
- Corbet, P.S., (1999). *Dragonflies: Behavior and Ecology of Odonata*. Cornell University Press, Ithaca, New York.
- Demayo, G., S.A. Harun, and. M.A.J. Torres, (2011). Prostectus analysis of wing shape divergence among sibling species of Neurothemis dragonflies. *Australian Journal Of Basic and Applied Sciences* 5(6): 748-759.
- Demayo, G., M.J. Rico, and. M.A.J. Torres, (2013). Relative warp analysis variations in the fore-and hindwings of selected population of male Neurothemis terminata terminata (ris, 1911). *Sci. Int (Lahore)* 25(2): 277-284.
- Donoughe, S., J.D. Crall, R.A. Merz, and S.T. Combes, (2011). Resilin in dragonfly and damselfly wings and its implications for wing flexibility. *Journal of Morphology* 000,000-000.
- Dunkle, S.W., (2000). *Dragonflies through Binoculars: A Field Guide to Dragonflies of North America*. China: Oxford University Press.
- Ellington, C.P., (1984). The aerodynamics of hovering insect flight, Part VI: Lift and power requirements. *Phil. Trans. R. Soc. Lond. B* 305, 145-181

- Engel, M.S. & Grimaldi, D.A., (2004). New light shed on the oldest insect. *Nature* 427, 627-630.
- Ennos, A.R., (1988). The importance of torsion in the design of insect wings. *J. exp. Biol.* 140: 137-160.
- Fincke, O.M., (1986). Underwater oviposition in a damselfly (Odonata: Coenagrionidae) favors male vigilance, and multiple mating by females. *Behaviour Ecology and Sociobiology* 18(6): 405-412.
- Gillot, C., (2005). *Entomology*. Third edition. Netherland: Springer.
- Gordon, J. E. (1978). *Structures: Why Things Don't Fall Down*. New York: Penguin Books.
- Gorb, S., (1999). Serial elastic elements in the damselfly wing: mobile vein joints contain resilin. *Naturwissenschaften* V 86, I 11, 525-555.
- Gorb, S.N., A. Kesel, J. Berger, (2000). Microsculpture of the wing surface in Odonata: evidence for cuticular wax covering. *Arthropod Structure and Development* 29, 129-135
- Grimaldi, D. & Engel, M.S., (2005). *Evolution of the Insects*. Cambridge Univ. Press, Cambridge.
- Haas, F., S. Gorb, and R. Blickhan, (2000). The function of resilin in the beetle wings. *Proc. R. Soc. Lond. B* 267, 1375-1381.
- Heckman, C.W., (2006). *Encyclopedia of South American Aquatic Insect: Odonata-Anisoptera*. Netherlands: Springer Pub.
- Hovmöller, R. (2006). *Molecular Phylogenetics and Taxonomic Issue in Dragonfly Systematics (Insecta: Odonata)*. Stockholm. US-AB.
- Hsin, C.C., K.T. Kuen, C.K. Tsan, (2009). Study on Nano mechanical properties of dragonfly wings. *Advanced Materials Research* 79-82, 1325-1328.
- Huai-Hui, R., W. Xi-Shu, C. Ying-Long, and L. Xu-Dong, (2011). Biomechanical behaviors of dragonfly wing: relationship between configuration and deformation. *Chin. Phys. B* 21 (3), 1674-1056.
- Johansson, F., M. Söderquist, and F. Bokma., (2009). Insect wing shape evolution: independent effects of migratory and mate guarding flight on dragonfly wings. *Biological Journal of the Linnean Society* 97, 362-372.
- Johnson, L., B.L. Mantle, J.L. Gardner, and P.L. Backwell, (2013). Morphometric measurements of dragonfly wings: the accuracy of pinned, scanned and detached measurement methods. *ZooKeys* 276: 77-84.
- Kesel, A.B., Philippi, U., and Nachtigall, W., (1998). Biomechanical aspects of the insect wing: an analysis using the finite element method. *Computers in Biology and Medicine*, 28 (4), 424-437.
- Kreuz, P., W. Arnold, and A.B. Kesel, (2001). Acoustic microscopic analysis of the biological structure of Insect wing membranes with emphasis on their waxy surface. *Annals of Biomedical Engineering* 29, 1054-1058.
- Kunigal, N.S. and S. Lingaiah, (2007). Ultra Lightweight Materials for BioInspired Microsystems. Presented at the 16th *International Conference on Composite Materials*, July8-13.
- Li, Z., (2008). *Investigation of Tribolium castaneum Resilin, A Rubber-Like Insect Cuticular Protein*. Thesis. Manhattan: Kansas State University.

- Li, Z., W. Shen, G. Tong, J. Tian, and L. Vu-Quoc., (2009). On the vein-stiffening membrane structure of a dragonfly hind wing. *Journal of Zhejiang Univ. Sci. A* 10 (1), 72-81.
- Lockey, K.H., (1988). Lipid of the insect cuticle: origin composition and function. *Comp. Biochem. Physiol B, Biochem Mol Biol.* 89: 595-645
- Marcus, J.M., (2001). The development and evolution of cross-veins in insect wings. *Journal of Anatomy* 199, 211-216.
- Marocco, J., L. Demasi, and S. Venkataraman, (2010). *Investigating the Structural Dynamics Implication of Flexible Resilin Joints on Dragonfly Wings*. Access Proceeding. AP10-09.
- Newman, D.J.S., (1982). *The Function Wing Morphology of Some Odonata*. Thesis, University of Exeter, UK.
- Norberg, R.A. (1972). The pterostigma of insect wings an inertial regulator of the wing pitch. *Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology* 81 (1), 9-22.
- Okamoto, M., Yasuda, K., and Azuma, A., (1996). Aerodynamic characteristics of the wings and body of a dragonfly. *Journal of Experimental Biology*, 199 (2), 281-294.
- Orlowski, C.T., A.R. Girard, and W. Shyy, (2010). Four wing flapping micro air-vehicles dragonflies or x-wings?. *AIAA Guidance, Navigation, and Control Conference*. Toronto, Ontario Canada.
- Paulson, D., (2009). *Dragonflies and Damselflies of the West*. China: Princeton University Press.
- Rahadi, W.S., B. Feriwibisono, M.P. Nugrahani, B. Putri, and T. Makitan, (2013). *Naga Terbang Wendit*. Indonesia: Indonesia Dragonfly Society Press.
- Renay, S.-C. Su, Y. Kim, and J.C.Liu, (2014). Resilin: Protein-based elastomeric biomaterials. *Acta Biomaterialia* 10, 1601-1611.
- Riek, E.F. and Peck, J.K., (1984). A new interpretation of dragonfly wing venation based upon early upper carboniferous fossils from Argentina (Insecta: Odonatoidea) and basic character states in pterygote wings. *Can. J. Zool.* 62: 1150-1166.
- Ryan, K.J. and S. Salvaggio, (2012). *A Feature-Based Classifier For Dragonflies And Damselflies*. Rochester Institute of Technology, College of Science, Center for Imaging Science, Rochester, New York, United States.
- Song, F., K.W. Xiao, K. Bai., and Y.L. Bai, (2007). Microstructure and nanomechanical properties of the wing membrane of dragonfly. *Materials Science & Engineering A* 457, 254-260.
- Suhling, F. and A. Martens., (2007). *Dragonflies and Damselflies of Namibia*. Namibia: Gamsberg Macmillan Publishers.
- Sun, J.Y., C.X. Pan, J. Tong, J.Zhang, (2010). Coupled model analysis of the structure and Nano mechanical properties of dragonfly wings. *IET Nanobiotechnol* 4 (1), 10-18.
- Talucdher, R., Y. Sergey, and K.N. Shivakumar, (2011). Measurement of mechanical properties of NC dragonfly wing by nanoindentation. *Proceedings of the International Conference on Mechanical Engineering*. 18-20 December.

- Tanaka. H., J.P. Whitney, and R.J. Wood, (2011). Symposium “*Bioinspiration: Applying Mechanical Design to Experimental Biology*” presented at the annual meeting of the Society for Integrative and Comparative Biology. Utah, Oxford University Press.
- Theischinger, G., (1940). *Identification Guide to the Australian Odonata*. Victoria. Department Of Environment, Climate, and Water. pp: 111-127.
- Tillyard, R.J., (1915). On the development of the wing venation in zygopterous dragonflies, with special reference to the calopterygidae. *Proceeding of the Linnean Society of New South Wales*. Part 2.
- Tillyard, R.J., (1917). *The Biology of Dragonflies*. Cambridge. University Press. page: 26-41.
- Triplehorn, C.A. and Johnson, F.J., (2005). *Borror and Delong’s Introduction to The Study of Insect*. 7th edition. USA: Thonson Learning. Inc. page: 197.
- Wagner, T. C. Neinhuis, and W. Barhlott, (1996). Wettability and contaminability of insect wings as a function of their surface sculptures. *Acta Zoologica* 77, 213-225.
- Wang, X.S., Li Y., and Shi Y.F., (2008). Effect of sandwich microstructure on mechanical behaviors of dragonfly wing vein. *Composites Science Technology* 68, 186-192.
- Wakeling, J.M. and C.P. Ellington, (1997). Dragonfly flight. *Journal of Experimental Biology* 200, 543-556.
- Weis-Fogh, T., (1960). *A Rubber-Like Protein in Insect Cuticle*. Department of Zoology, Cambridge University, England, and Zoophysiological Laboratory B, University of Copenhagen, Denmark.
- Wootton, R.J., (1981). Support and deformability in insect wings. *Journal of Zoology* 193, 447-468.
- Wootton, R.J., (1991). The functional morphology of the wings of dragonfly. *Fluid Dyn. Res.* 37, 21-39.
- Wootton, R.J., (1992). Functional morphology of insect wings. *Annu Rev Entomology* 37, 113–140.
- Wootton, R.J., Evans K.E., Herbert R., et al., (2000). The mechanical properties and functioning of the membrane. *Journal of Experimental Biology V* 203(119), 2933-2943.
- Xiao, K., K. Bai, W. Wang, and F. Song, (2007). Experimental study on the microstructure and nanomechanical properties of the wing membrane of dragonfly. *Acta Mech Sin* 23, 281-285.
- Zeng, L.J., Matsumoto, H., and Kawaichi, K., (1996). Simultaneous measurement of the shape and thickness of a dragonfly wing. *Measurement Science and Technology* 7 (12), 1728-1732.
- Zhao, H.X., Y.J. Yin, and Z. Zhong, (2011). Multi-levels, multi-scales and multi-function in the fine structure of the wing veins in the dragonfly *Pantala flavescens* (fabricius) (Anisoptera: Libellulidae). *Odonatologica* 41 (2), 161-172.
- Vukusic, P. and R. Sambles, (2003). Photonic structures in biology. *Nature* 424, 852-855.