



DAFTAR PUSTAKA

- [1] D. Rus and M. Tolley, "Design, fabrication and control of soft robots," *Nature*, vol. 521, pp. 467–75, 05 2015.
- [2] A. D. Marchese, C. D. Onal, and D. Rus, "Autonomous soft robotic fish capable of escape maneuvers using fluidic elastomer actuators," *Soft Robotics*, vol. 1, no. 1, pp. 75–87, 2014, pMID: 27625912. [Online]. Available: <https://doi.org/10.1089/soro.2013.0009>
- [3] R. W. Byard, C. Winskog, A. Machado, and W. Boardman, "The assessment of lethal propeller strike injuries in sea mammals," *Journal of Forensic and Legal Medicine*, vol. 19, no. 3, pp. 158–161, 2012. [Online]. Available: <https://www.sciencedirect.com/science/article/pii/S1752928X11002393>
- [4] B. Molony, A. Ford, A. Sequeira, A. Borja, A. Zivian, C. Robinson, C. Lønborg, E. Escobar-Briones, E. Lorenzo, J. Andersen, M. Müller, M. Devlin, P. Failler, S. Villasante, S. Libralato, and T. Fortibuoni, "Editorial: Sustainable development goal 14 - life below water: Towards a sustainable ocean," *Frontiers in Marine Science*, vol. 8, 02 2022.
- [5] P. Valdivia y Alvarado and K. Youcef-Toumi, "Design of Machines With Compliant Bodies for Biomimetic Locomotion in Liquid Environments," *Journal of Dynamic Systems, Measurement, and Control*, vol. 128, no. 1, pp. 3–13, 09 2005. [Online]. Available: <https://doi.org/10.1115/1.2168476>
- [6] S. C. van den Berg, "Design of a high speed soft robotic fish," M.S. thesis, Faculty Industrial Design Eng., Delft University of Technology, Delft, Netherlands, July 2019, available at <https://resolver.tudelft.nl/uuid:b55658e2-1786-4eed-87a7-291d84e1b838>.
- [7] Z. Chen, X. Tian, X. Chen, B. Wen, and X. Li, "An experimental study of the wire-driven compliant robotic fish," *Ocean Engineering*, vol. 279, p. 114433, 2023. [Online]. Available: <https://www.sciencedirect.com/science/article/pii/S002980182300817X>
- [8] I. Ju and D. Yun, "Hydraulic variable stiffness mechanism for swimming locomotion optimization of soft robotic fish," *Ocean Engineering*, vol. 286, p. 115551, 2023. [Online]. Available: <https://www.sciencedirect.com/science/article/pii/S0029801823019352>
- [9] T. Zou, X. Jian, M. Al-Tamimi, X. Wu, and J. Wu, "Development of a Low-Cost Soft Robot Fish With Biomimetic Swimming Performance," *Journal of Mechanisms and Robotics*, vol. 16, no. 6, p. 061004, 08 2023. [Online]. Available: <https://doi.org/10.1115/1.4063037>
- [10] R. K. Katzschmann, A. D. Marchese, and D. Rus, *Hydraulic Autonomous Soft Robotic Fish for 3D Swimming*. Cham: Springer International Publishing, 2016, pp. 405–420. [Online]. Available: https://doi.org/10.1007/978-3-319-23778-7_27



- [11] M. Longstreth, V. Sambucci, A. T. Siniscalco, S. Bakrania, M. Trkov, C. S. E. Jamison, and W. Xue, “Byoe: Soft robotic fish project,” in *Proceedings of the 2024 ASEE Annual Conference & Exposition*. Portland, Oregon: ASEE Conferences, June 2024. [Online]. Available: <https://peer.asee.org/48437>
- [12] X. Yi, A. Chakarvarthy, and Z. Chen, “Cooperative collision avoidance control of servo/ipmc driven robotic fish with back-relaxation effect,” *IEEE Robotics and Automation Letters*, vol. 6, no. 2, pp. 1816–1823, 2021.
- [13] N. Doan and K. K. Ahn, “Analysis and experiment on a self-sensing ionic polymer–metal composite actuator,” *Smart Materials and Structures*, vol. 23, p. 074007, 06 2014.
- [14] M. A. Schilling, “Toward a general modular systems theory and its application to interfirm product modularity,” *The Academy of Management Review*, vol. 25, no. 2, pp. 312–334, 2000. [Online]. Available: <http://www.jstor.org/stable/259016>
- [15] C. Zhang, P. Zhu, Y. Lin, Z. Jiao, and J. Zou, “Modular soft robotics: Modular units, connection mechanisms, and applications,” *Advanced Intelligent Systems*, vol. 2, no. 6, p. 1900166, 2020. [Online]. Available: <https://advanced.onlinelibrary.wiley.com/doi/abs/10.1002/aisy.201900166>
- [16] S. Kurumaya, B. Phillips, K. Becker, M. Rosen, D. Gruber, K. Galloway, K. Suzumori, and R. Wood, “A modular soft robotic wrist for underwater manipulation,” *Soft Robotics*, vol. 5, 04 2018.
- [17] A. Vergara, Y.-s. Lau, R.-F. Mendoza-Garcia, and J. C. Zagal, “Soft modular robotic cubes: Toward replicating morphogenetic movements of the embryo,” *PLOS ONE*, vol. 12, no. 1, pp. 1–17, 01 2017. [Online]. Available: <https://doi.org/10.1371/journal.pone.0169179>
- [18] L. Wang and F. Iida, “Towards “soft” self-reconfigurable robots,” in *2012 4th IEEE RAS & EMBS International Conference on Biomedical Robotics and Biomechanics (BioRob)*, 2012, pp. 593–598.
- [19] Z. Jiao, C. Zhang, W. Wang, M. Pan, H. Yang, and J. Zou, “Advanced artificial muscle for flexible material-based reconfigurable soft robots,” *Advanced Science*, vol. 6, no. 21, p. 1901371, 2019. [Online]. Available: <https://advanced.onlinelibrary.wiley.com/doi/abs/10.1002/advs.201901371>
- [20] T. D. Ngo, A. Kashani, G. Imbalzano, K. T. Nguyen, and D. Hui, “Additive manufacturing (3d printing): A review of materials, methods, applications and challenges,” *Composites Part B: Engineering*, vol. 143, pp. 172–196, 2018. [Online]. Available: <https://www.sciencedirect.com/science/article/pii/S1359836817342944>
- [21] A. D. Marchese, R. K. Katzschmann, and D. Rus, “A recipe for soft fluidic elastomer robots,” *Soft Robotics*, vol. 2, pp. 7 – 25, 2015. [Online]. Available: <https://api.semanticscholar.org/CorpusID:6622844>
- [22] N. A. Che Sidik and T. W. Yen, “Hydrodynamical analysis of the effect of fish fins morphology,” in *IOP Conference Series: Materials Science and Engineering*,



vol. 50, no. 1. IOP Publishing Ltd, jul 2013, p. 012013, 2nd International Conference on Mechanical Engineering Research (ICMER 2013), 1–4 July 2013, Kuantan, Pahang, Malaysia.

- [23] Oregon Department of Fish & Wildlife, “Marine sport fish identification key – glossary of terms,” <https://www.dfw.state.or.us/mrp/fishid/FishIDGlossary.asp>, 2024, last accessed: Aug 23, 2024.
- [24] Breder and C. Marcus, “The locomotion of fishes,” *Zoologica : scientific contributions of the New York Zoological Society*, vol. 4, pp. 159–297, 1926-09-29. [Online]. Available: <https://www.biodiversitylibrary.org/part/203769>
- [25] J. Jezov, “Pressure sensitive lateral line for underwater robot,” Ph.D. dissertation, Tallinn University of Technology, Tallinn, Estonia, October 2013.
- [26] W. S. Hoar and D. J. Randall, *Fish Physiology*, vii ed. New York, United States of America: Academic Press, Inc., 1978.
- [27] M. H. Dickinson, C. T. Farley, R. J. Full, M. A. R. Koehl, R. Kram, and S. L. Lehman, “How animals move: an integrative view.” *Science*, vol. 288 5463, pp. 100–6, 2000. [Online]. Available: <https://api.semanticscholar.org/CorpusID:7360345>
- [28] K. Erdoğan and N. Yılmaz, “Shifting colors to overcome not realizing objects problem due to color vision deficiency,” December 2014, p. 12.
- [29] Royal Society of Chemistry. (2025) Periodic table. Accessed: Jan. 1, 2025. [Online]. Available: <https://periodic-table.rsc.org/>
- [30] C. D. Lewis, *Industrial and Business Forecasting Methods*, i ed. London, United Kingdom: Butterworth Scientific, 1982.