

DAFTAR PUSTAKA

- [1] F. Mazunga and A. Nechibvute, 'Ultra-low power techniques in energy harvesting wireless sensor networks: Recent advances and issues', *Sci. African*, vol. 11, p. e00720, 2021, doi: 10.1016/j.sciaf.2021.e00720.
- [2] A. Chowdhury and D. De, 'Energy-Efficient Coverage Optimization in Wireless Sensor Networks based on Voronoi-Glowworm Swarm Optimization-K-means algorithm', *Ad Hoc Networks*, vol. 122, no. August, p. 102660, 2021, doi: 10.1016/j.adhoc.2021.102660.
- [3] A. A. Babayo, M. H. Anisi, and I. Ali, 'A Review on energy management schemes in energy harvesting wireless sensor networks', *Renew. Sustain. Energy Rev.*, vol. 76, no. October 2016, pp. 1176–1184, 2017, doi: 10.1016/j.rser.2017.03.124.
- [4] C. Prommak and S. Modhirun, 'Optimal Wireless Sensor Network Design for Efficient Energy Utilization', in *2011 IEEE Workshops of International Conference on Advanced Information Networking and Applications*, Mar. 2011, pp. 814–819, doi: 10.1109/WAINA.2011.89.
- [5] S. Balaji, M. Anitha, D. Rekha, and D. Arivudainambi, 'Energy efficient target coverage for a wireless sensor network', *Meas. J. Int. Meas. Confed.*, vol. 165, p. 108167, 2020, doi: 10.1016/j.measurement.2020.108167.
- [6] S. Saravanan and M. Madheswaran, 'Design of low power multiplier with reduced spurious transition activity technique for wireless sensor network', in *2008 Fourth International Conference on Wireless Communication and Sensor Networks*, Dec. 2008, pp. 36–39, doi: 10.1109/WCSN.2008.4772678.
- [7] Q. Tan *et al.*, 'Energy harvesting aware topology control with power adaptation in wireless sensor networks', *Ad Hoc Networks*, vol. 27, pp. 44–56, 2015, doi: 10.1016/j.adhoc.2014.11.022.
- [8] S. Sachan, R. Sharma, and A. Sehgal, 'Energy efficient scheme for better connectivity in sustainable mobile wireless sensor networks', *Sustain. Comput. Informatics Syst.*, vol. 30, no. June 2020, p. 100504, 2021, doi: 10.1016/j.suscom.2020.100504.
- [9] Z. Huang, Q. Niu, S. Xiao, and T. Li, 'Energy harvesting algorithm considering max flow problem in wireless sensor networks', *Comput. Commun.*, vol. 150, no. October 2019, pp. 626–633, 2020, doi: 10.1016/j.comcom.2019.12.008.
- [10] J. Ortiz, N. Zabala, P. Monje, V. Cokonaj, and G. Aranguren, 'Energy generation based on piezoelectric transducers', *Renew. Energy Power Qual.*

J., vol. 1, no. 11, pp. 245–250, Mar. 2013, doi: 10.24084/repqj11.268.

- [11] B. Khemmanee and D. Isarakorn, ‘Low-cost energy management circuit base on primary feedback self-oscillating flyback converter for piezoelectric energy harvesting’, *2015 18th Int. Conf. Electr. Mach. Syst. ICEMS 2015*, pp. 1035–1038, 2016, doi: 10.1109/ICEMS.2015.7385190.
- [12] L. B. Kong, T. Li, H. H. Hng, F. Boey, T. Zhang, and S. Li, *Waste Energy Harvesting*, vol. 24. Berlin, Heidelberg: Springer Berlin Heidelberg, 2014.
- [13] R. Hamid and M. R. Yuce, ‘A wearable energy harvester unit using piezoelectric–electromagnetic hybrid technique’, *Sensors Actuators, A Phys.*, vol. 257, pp. 198–207, 2017, doi: 10.1016/j.sna.2017.02.026.
- [14] G. J. Song *et al.*, ‘Development of a pavement block piezoelectric energy harvester for self-powered walkway applications’, *Appl. Energy*, vol. 256, no. April, p. 113916, 2019, doi: 10.1016/j.apenergy.2019.113916.
- [15] G. J. Song *et al.*, ‘Performance of a speed bump piezoelectric energy harvester for an automatic cellphone charging system’, *Appl. Energy*, vol. 247, no. March, pp. 221–227, 2019, doi: 10.1016/j.apenergy.2019.04.040.
- [16] J. Y. Cho *et al.*, ‘A multifunctional road-compatible piezoelectric energy harvester for autonomous driver-assist LED indicators with a self-monitoring system’, *Appl. Energy*, vol. 242, no. March, pp. 294–301, 2019, doi: 10.1016/j.apenergy.2019.03.075.
- [17] W. Hwang *et al.*, ‘Watts-level road-compatible piezoelectric energy harvester for a self-powered temperature monitoring system on an actual roadway’, *Appl. Energy*, vol. 243, no. February, pp. 313–320, 2019, doi: 10.1016/j.apenergy.2019.03.122.
- [18] E. Blokhina, A. El Aroudi, E. Alarcon, and D. Galayko, *Nonlinearity in Energy Harvesting Systems*. Cham: Springer International Publishing, 2016.
- [19] I. Patel, ‘Ceramic Based Intelligent Piezoelectric Energy Harvesting Device’, in *Advances in Ceramics - Electric and Magnetic Ceramics, Bioceramics, Ceramics and Environment*, no. 2, InTech, 2011, pp. 133–155.
- [20] D. Susilo, E. Firmansyah, and Litasari, ‘Sistem Pemanen Energi dengan Transduser Piezoelektrik untuk Perangkat Daya Rendah’, vol. 9, no. 1, pp. 292–300, 2014.
- [21] F. H. Widodo, M. R. Kirom, and A. Qurthobi, ‘PERANCANGAN SISTEM DAN MONITORING SUMBER ARUS LISTRIK DARI LANTAI PIEZOELECTRIC UNTUK PENGISIAN BATERAI System Design And Monitoring Current Power Generated by Piezoelectric Floor for Battery Charging’, vol. 4, no. 1, pp. 795–802, 2017.

- [22] X.-D. Do, S.-K. Han, and S.-G. Lee, 'Optimization of piezoelectric energy harvesting systems by using a MPPT method', in *2014 IEEE Fifth International Conference on Communications and Electronics (ICCE)*, Jul. 2014, pp. 309–312, doi: 10.1109/CCE.2014.6916720.
- [23] I. M. Darmayuda, C. Tshun, C. Kevin, and J. Minkyu, 'Modified Buck Boost Circuit for Linear and Non- Linear Piezoelectric Energy Harvesting', vol. 7, no. 9, pp. 705–709, 2013, [Online]. Available: <http://www.waset.org/publications/16656>.
- [24] Y. Supriandani and E. Ekawati, 'Perancangan dan Implementasi Karpet Piezoelektrik untuk Pemanenan Energi', pp. 145–152, 2015.
- [25] C. W. Wang, T. K. Hsu, J. H. Wu, J. H. Cheng, C. W. Yang, and T. C. Yeh, 'An Optimal Rapid Energy-Storing Design for the Stackable Piezoelectric Power Generation Devices', *Adv. Mater. Res.*, vol. 590, pp. 189–194, Nov. 2012, doi: 10.4028/www.scientific.net/AMR.590.189.
- [26] W. A. Ching, M. J. Geotina, N. S. Gora, R. J. Sucayre, R. V. M. Santiago, and J. M. Martinez, 'Implementation of piezoelectric generator for harvesting energy for different types of staircases with automatic switching mechanism', *2018 IEEE 10th Int. Conf. Humanoid, Nanotechnology, Inf. Technol. Commun. Control. Environ. Manag. HNICEM 2018*, pp. 1–6, 2019, doi: 10.1109/HNICEM.2018.8666232.
- [27] T. N. Le, A. Pegatoquet, O. Berder, and O. Sentieys, 'Energy-Efficient Power Manager and MAC Protocol for Multi-Hop Wireless Sensor Networks Powered by Periodic Energy Harvesting Sources', *IEEE Sens. J.*, vol. 15, no. 12, pp. 7208–7220, Dec. 2015, doi: 10.1109/JSEN.2015.2472566.
- [28] K. Praveen, M. Pudipeddi, and M. Sivaramakrishna, 'Design, development and analysis of energy harvesting system for wireless pulsating sensors', *2016 IEEE Annu. India Conf. INDICON 2016*, 2017, doi: 10.1109/INDICON.2016.7838931.
- [29] M. M. Amiri and S. M. H. Andargoli, 'Life time maximization in the Wireless Sensor Network with energy harvesting', in *2017 IEEE 4th International Conference on Knowledge-Based Engineering and Innovation (KBEI)*, Dec. 2017, pp. 0412–0417, doi: 10.1109/KBEI.2017.8325012.
- [30] A. Jushi, A. Pegatoquet, and T. N. Le, 'Wind Energy Harvesting for Autonomous Wireless Sensor Networks', in *2016 Euromicro Conference on Digital System Design (DSD)*, Aug. 2016, pp. 301–308, doi: 10.1109/DSD.2016.43.
- [31] M. Ayaz, E. Farjah, and T. Ghanbari, 'An efficient power supply for Wireless Sensor Networks through environmental energy harvesting', in *2016 Iranian*

Conference on Renewable Energy & Distributed Generation (ICREDG), Apr. 2016, pp. 1–6, doi: 10.1109/ICREDG.2016.7875895.

- [32] A. Somov, Z. J. Chew, T. Ruan, M. Zhu, and S. P. Platt, ‘Ultra-low-power RADFET sensing circuit for wireless sensor networks powered by energy harvesting’, in *2016 IEEE SENSORS*, Oct. 2016, pp. 1–3, doi: 10.1109/ICSENS.2016.7808753.
- [33] Z. J. Chew and M. Zhu, ‘Low power adaptive power management with energy aware interface for wireless sensor nodes powered using piezoelectric energy harvesting’, *2015 IEEE SENSORS - Proc.*, pp. 5–8, 2015, doi: 10.1109/ICSENS.2015.7370663.
- [34] T. Ruan, Z. J. Chew, and M. Zhu, ‘Energy-Aware Approaches for Energy Harvesting Powered Wireless Sensor Nodes’, *IEEE Sens. J.*, vol. 17, no. 7, pp. 2165–2173, Apr. 2017, doi: 10.1109/JSEN.2017.2665680.
- [35] Wei Liu, Zhengqiang Wang, Shaohua Qu, and Rong Luo, ‘Vibration energy harvesting and management for wireless sensor networks in bridge structural monitoring’, in *2015 IEEE SENSORS*, Nov. 2015, pp. 1–4, doi: 10.1109/ICSENS.2015.7370561.
- [36] A. Patil, M. Jadhav, S. Joshi, E. Britto, and A. Vasaikar, ‘Energy harvesting using piezoelectricity’, in *2015 International Conference on Energy Systems and Applications*, Oct. 2015, no. Icesa, pp. 517–521, doi: 10.1109/ICESA.2015.7503403.
- [37] W. Dargie and C. Poellabauer, *Fundamentals of Wireless Sensor Networks*, no. January. Chichester, UK: John Wiley & Sons, Ltd, 2010.
- [38] R. Selmic, V. Phoha, and A. Serwadda, *Wireless Sensor Networks: Security, Coverage, and Localization*, vol. 65, no. 7. 2016.