

DAFTAR PUSTAKA

- Abah, O., Roßnagel, J., Jacob, G., Deffner, S., Schmidt-Kaler, F., Singer, K., Lutz, E. 2012. Single-ion heat engine at maximum power. *Physical Review Letters*. 109.
- Abdillah, F., Saputra, Y.D. 2020. Quantum-Mechanical Brayton Engine for the Nonrelativistic Particle Trapped in a Symmetric Potential Box. *POSITRON*. 10:20.
- Alecce, A., Galve, F., Gullo, N. Lo, Dell'Anna, L., Plastina, F., Zambrini, R. 2015. Quantum Otto cycle with inner friction: Finite-time and disorder effects. *New Journal of Physics*. 17.
- Altintas, F. 2019. Comparison of the coupled quantum Carnot and Otto cycles. *Physica A: Statistical Mechanics and its Applications*. 523:40–47.
- Anderson, M.H., Ensher, J.R., Matthews, M.R., Wieman, C.E., Cornell, E.A. 1995. Observation of Bose-Einstein Condensation in a Dilute Atomic Vapor. *Science*. 269:198–201.
- Anderson, M.H., Ensher, J.R., Matthews, M.R., Wieman, C.E., Cornell, E.A. 2008. Observation of bose-einstein condensation in a dilute atomic vapor. In: *Collected Papers of Carl Wieman*. World Scientific Publishing Co., pp. 453–456.
- Aveline, D.C., Williams, J.R., Elliott, E.R., Dutenhoffer, C., Kellogg, J.R., Kohel, J.M., Lay, N.E., Oudrhiri, K., Shotwell, R.F., Yu, N., Thompson, R.J. 2020. Observation of Bose–Einstein condensates in an Earth-orbiting research lab. *Nature*. 582:193–197.
- Baghelani, M., Hasan-Nejad, O., Daneshmand, M. 2021. Highly Sensitive Microwave Sensor for High Precision Sensing of Water Contamination in Mineral Oil. *IEEE Sensors Journal*. 21:13247–13254.
- Bagnato, V., Pritchard, D.E., Kleppner, D. 1987a. Bose-Einstein condensation in an external potential. *Physical Review A*. 35.
- Bender, C.M., Brody, D.C., Meister, B.K. 2000. Quantum mechanical Carnot engine. *Journal of Physics A: Mathematical and General*. 33.
- Berrin Erbay, L., Yavuz, H. 1997. Analysis of the stirling heat engine at maximum power conditions. *Energy*. 22:645–650.
- Borgnakke, R.E.S. and C. 2001. *Introduction to Engineering Thermodynamics*. John Wiley and Sons, Inc.
- Bose 1924. Plancks Gesetz und Lichtquantenhypothese. *Zeitschrift für Physik*. 26:178–181.

- Bradley, C.C., Sackett, C.A., Hulet, R.G. 1997. Bose-Einstein Condensation of Lithium: Observation of Limited Condensate Number, *PHYSICAL REVIEW LETTERS*.
- Bradley, C.C., Sackett, C.A., Tollett, J.J., Hulet, R.G. 1995. Evidence of Bose-Einstein Condensation in an Atomic Gas with Attractive Interactions The minimum is offset by a uniform bias field of 823 G. *Physical Review Letters*. 75:1687–1690.
- Çakmak, B., Müstecaplıoğlu, Ö.E. 2019. Spin quantum heat engines with shortcuts to adiabaticity. *Physical Review E*. 99:1–10.
- Çakmak, S., Altintas, F., Gençten, A., Müstecaplıoğlu, Ö.E. 2017. Irreversible work and internal friction in a quantum Otto cycle of a single arbitrary spin. *European Physical Journal D*. 71:1–10.
- Callen, H.B., Scott, H.L. 1998. Thermodynamics and an Introduction to Thermostatistics, 2nd ed. *American Journal of Physics*. 66:164–167.
- Camati, P.A., Santos, J.F.G., Serra, R.M. 2019. Coherence effects in the performance of the quantum Otto heat engine. *Physical Review A*. 99:40–43.
- Çengel, Y.A. 2008. Thermodynamics : an Engineering Approach. McGraw-Hill Higher Education.
- Chamberlin, R. V. 2015. The big world of nanothermodynamics. *Entropy*. 17:52–73.
- Chand, S., Dasgupta, S., Biswas, A. 2021. Finite-time performance of a single-ion quantum Otto engine. *Physical Review E*. 103:1–9.
- Curzon, F.L., Ahlborn, B. 1975. Efficiency of a Carnot engine at maximum power output. *American Journal of Physics*. 43:22–24.
- Davis, K.B., Mewes, M.O., Andrews, M.R., Van Druten, N.J., Durfee, D.S., Kurn, D.M., Ketterle, W. 1995. Bose-Einstein condensation in a gas of sodium atoms. *Physical Review Letters*. 75.
- Deffner, S. 2018. Efficiency of harmonic quantum Otto engines at maximal power. *Entropy*. 20.
- Deffner, S., Campbell, S. 2019. Quantum Thermodynamics. Morgan & Claypool Publishers.
- Donley, E.A., Claussen, N.R., Thompson, S.T., Wieman, C.E. 2008. Atom-molecule coherence in a bose-einstein condensate. *Collected Papers of Carl Wieman*. 621–625.
- Einstein, A. 1925. Quantentheorie des einatomigen idealen Gases. *Sitzungsberichte der Preussischen Akademie der Wissenschaften*.

- Fahriza, A., Sutantyo, T.E.P. 2022. Effects of State Degeneration in 3D Quantum Lenoir Engine Performance. *Jurnal Ilmu Fisika / Universitas Andalas*. 14:95–107.
- Fahriza, A., Sutantyo, T.E.P., Abdullah, Z. 2022. Optimizations of multilevel quantum engine with N noninteracting fermions based on Lenoir cycle. *European Physical Journal Plus*. 137.
- Fialko, O., Hallwood, D.W. 2012. Isolated quantum heat engine. *Physical Review Letters*. 108.
- Flamini, F., Spagnolo, N., Sciarrino, F. 2019. Photonic quantum information processing: a review. *Reports on Progress in Physics*. 82:016001.
- Gaunt, A.L., Schmidutz, T.F., Gotlibovych, I., Smith, R.P., Hadzibabic, Z. 2013. Bose-einstein condensation of atoms in a uniform potential. *Physical Review Letters*. 110.
- Gluza, M., Sabino, J., Ng, N.H.Y., Vitagliano, G., Pezzutto, M., Omar, Y., Mazets, I., Huber, M., Schmiedmayer, J., Eisert, J. 2021. Quantum Field Thermal Machines. *PRX Quantum*. 2.
- Griffiths, D.J., Schroeter, D.F. 2018. Introduction to Quantum Mechanics. Cambridge University Press.
- Hoffmann, K.H. 2008. An introduction to endoreversible thermodynamics. In: AAPP Atti Della Accademia Peloritana Dei Pericolanti, Classe Di Scienze Fisiche, Matematiche e Naturali.
- Huang, K. 2009. Introduction to Statistical Physics, Introduction to Statistical Physics. Chapman and Hall/CRC.
- Ketterle, W. 2002. Nobel lecture: When atoms behave as waves: Bose-Einstein condensation and the atom laser. *Reviews of Modern Physics*.
- Ketterle, W., Miesner, H.J. 1997. Coherence properties of Bose-Einstein condensates and atom lasers. *Physical Review A - Atomic, Molecular, and Optical Physics*. 56:3291–3293.
- Kim, Jinuk, Oh, S., Yang, D., Kim, Junki, Lee, M., An, K. 2022. A photonic quantum engine driven by superradiance. *Nature Photonics*. 16:707–711.
- Kosloff, R., Rezek, Y. 2017. The Quantum Harmonic Otto Cycle. *Entropy*. 19:136.
- Leff, H.S. 1987. Thermal efficiency at maximum work output: New results for old heat engines. *American Journal of Physics*. 55.
- Li, J., Fogarty, T., Campbell, S., Chen, X., Busch, T. 2018. An efficient nonlinear Feshbach engine. *New Journal of Physics*. 20.

- Li, J., Sherman, E.Y., Ruschhaupt, A. 2022. Quantum heat engine based on a spin-orbit- and Zeeman-coupled Bose-Einstein condensate. *Physical Review A*. 106.
- Li, Lunan, Li, H., Yu, W., Hao, Y., Li, Lei, Zou, J. 2021. Shortcut-to-adiabaticity quantum tripartite Otto cycle. *Journal of Physics B: Atomic, Molecular and Optical Physics*. 54:215501.
- Mahajan, S. 2020. Quantum mechanics in power-law potentials. *American Journal of Physics*. 88:431–432.
- Mann, R. 2009. An Introduction to Particle Physics and the Standard Model. CRC Press, Boca Raton.
- Melo, F. V., Sá, N., Roditi, I., Landi, G.T., Souza, A.M., Oliveira, I.S., Sarthour, R.S. 2022. Implementation of a two-stroke quantum heat engine with a collisional model 1–8.
- Myers, Nathan M., Abah, O., Deffner, S. 2022a. Quantum thermodynamic devices: from theoretical proposals to experimental reality.
- Myers, N.M., Deffner, S. 2020. Bosons outperform fermions: The thermodynamic advantage of symmetry. *Physical Review E*. 101.
- Myers, Nathan M, Peña, F.J., Cortés, N., Vargas, P. 2022. Multilayer Graphene as an Endoreversible Otto Engine.
- Myers, Nathan M., Peña, F.J., Negrete, O., Vargas, P., De Chiara, G., Deffner, S. 2022b. Boosting engine performance with Bose-Einstein condensation. *New Journal of Physics*. 24.
- Papadatos, N. 2021. The Quantum Otto Heat Engine with a Relativistically Moving Thermal Bath. *International Journal of Theoretical Physics*. 60:4210–4223.
- Pathria, R.K., Beale, P.D. 2011. *Statistical Mechanics, Statistical Mechanics*.
- Peña, F.J., Myers, N.M., Órdenes, D., Albarrán-Arriagada, F., Vargas, P. 2023. Enhanced Efficiency at Maximum Power in a Fock–Darwin Model Quantum Dot Engine. *Entropy*. 25:518.
- Pitaevskii, Lev, and S.S. 2016. Bose-Einstein condensation and superfluidity. Oxford University Press.
- Quan, H.T., Liu, Y.X., Sun, C.P., Nori, F. 2007. Quantum thermodynamic cycles and quantum heat engines. *Physical Review E - Statistical, Nonlinear, and Soft Matter Physics*. 76.
- Reppy, J.D., Crooker, B.C., Hebral, B., Corwin, A.D., He, J., Zassenhaus, G.M. 2000. Density dependence of the transition temperature in a homogeneous bose-einstein condensate. *Physical Review Letters*. 84:2060–2063.

- Rezek, Y., Kosloff, R. 2006. Irreversible performance of a quantum harmonic heat engine. *New Journal of Physics*. 8.
- Roncaglia, A.J., Cerisola, F., Paz, J.P. 2014. Work measurement as a generalized quantum measurement. *Physical Review Letters*. 113:1–4.
- Roßnagel, J., Abah, O., Schmidt-Kaler, F., Singer, K., Lutz, E. 2014. Nanoscale heat engine beyond the carnot limit. *Physical Review Letters*. 112.
- Schroeder, D. V., Pribram, J.K. 1999. An Introduction to Thermal Physics. *American Journal of Physics*. 67:1284–1285.
- Scovil, H.E.D., Schulz-Dubois, E.O. 1959. Three-level masers as heat engines. *Physical Review Letters*. 2:262–263.
- Setyo, D.P., Latifah, E., Hidayat, A., Wisodo, H. 2018. Quantum Relativistic Diesel Engine with Single Massless Fermion in 1 Dimensional Box System. *Jurnal Penelitian Fisika dan Aplikasinya (JPFA)*. 8:25.
- Singh, S., Rebari, S. 2020. Multi-level quantum diesel engine of non-interacting fermions in a one-dimensional box. *The European Physical Journal B*. 93:150.
- Smith, Z., Pal, P.S., Deffner, S. 2020. Endoreversible Otto Engines at Maximal Power. *Journal of Non-Equilibrium Thermodynamics*. 45:305–310.
- Sutantyo, T.E.P. 2020. Three-State Quantum Heat Engine Based on Carnot Cycle. *Jurnal Fisika Unand*. 9:142–149.
- Sutantyo, T.E.P., Belfaqih, I.H., Prayitno, T.B. 2015. Quantum-Carnot engine for particle confined to cubic potential. p. 040011.
- Vukosavic, S.N., Peric, L.S. 2015. High-Precision Sensing of DC Bias in AC Grids. *IEEE Transactions on Power Delivery*. 30:1179–1186.
- Wang, H., Liu, S., He, J. 2009. Performance analysis and parametric optimum criteria of a quantum Otto heat engine with heat transfer effects. *Applied Thermal Engineering*. 29:706–711.
- Wang, J., Wu, Z., He, J. 2012. Quantum Otto engine of a two-level atom with single-mode fields. *Physical Review E - Statistical, Nonlinear, and Soft Matter Physics*. 85:1–6.
- Wang, R., Wang, J., He, J., Ma, Y. 2012. Performance of a multilevel quantum heat engine of an ideal N-particle Fermi system. *Physical Review E*. 86:021133.
- Wang, R., Wang, J., He, J., Ma, Y. 2013. Efficiency at maximum power of a heat engine working with a two-level atomic system. *Physical Review E - Statistical, Nonlinear, and Soft Matter Physics*. 87:1–8.
- Wendin, G. 2017. Quantum information processing with superconducting circuits:

a review. *Reports on Progress in Physics*. 80:106001.

Yin, Y., Chen, L., Wu, F. 2018. Performance of quantum Stirling heat engine with numerous copies of extreme relativistic particles confined in 1D potential well. *Physica A: Statistical Mechanics and its Applications*. 503:58–70.

Zettili, N., Zahed, I. 2003. Quantum Mechanics: Concepts and Applications. *American Journal of Physics*. 71:93–93.

Zheng, Y., Poletti, D. 2014. Work and efficiency of quantum Otto cycles in power-law trapping potentials. *Physical Review E - Statistical, Nonlinear, and Soft Matter Physics*. 90:1–6.

