

## REFERENCES

1. Ahmed, R., I. A. Galal, A., & R. EL-Sharkawy, M. (2020). WASTE HEAT RECOVERY FOR HYBRID ELECTRIC VEHICLES USING THERMOELECTRIC GENERATION SYSTEM. *Journal of Advanced Engineering Trends*, 38(2), 173–184. <https://doi.org/10.21608/jaet.2020.73077>
2. Assadian, F., Fekri, S., & Hancock, M. (2012). Hybrid electric vehicles challenges: Strategies for advanced engine speed control. *2012 IEEE International Electric Vehicle Conference*, 1–8. <https://doi.org/10.1109/IEVC.2012.6183280>
3. Belbachir, R. Y., An, Z., & Ono, T. (2014). Thermal investigation of a micro-gap thermionic power generator. *Journal of Micromechanics and Microengineering*, 24(8), 1–9. <https://doi.org/10.1088/0960-1317/24/8/085009>
4. Bellucci, A., Mastellone, M., Serpente, V., Girolami, M., Kaciulis, S., Mezzi, A., Trucchi, D. M., Antolín, E., Villa, J., Linares, P. G., Martí, A., & Datas, A. (2020). Photovoltaic Anodes for Enhanced Thermionic Energy Conversion. *ACS Energy Letters*, 5(5), 1364–1370. <https://doi.org/10.1021/acsenergylett.0c00022>
5. Berjoza, D., Pīrs, V., & Šmigins, R. (2020). Investigation in fuel consumption of a hybrid and conventional vehicle. *Agronomy Research*, 18(S1), 1027–1035. <https://doi.org/10.15159/ar.20.050>
6. Bickerton, I., & Fox, N. A. (2017). Improving the Efficiency of a Thermionic Energy Converter Using Dual Electric Fields and Electron Beaming. *Frontiers in Mechanical Engineering*, 3, 1–4. <https://doi.org/10.3389/fmech.2017.00014>
7. Borges, C. F. M., Jerez, M. A., & Parizat, A. (2019). Testing an indirectly heated cathode ion source: Temperature and thermionic emission. *AIP Advances*, 9(10), 105202-1-105202–105208. <https://doi.org/10.1063/1.5123553>

8. Chokri Mahmoudi, Aymen Flah, & Lassaad Sbita. (2014). An overview of electric Vehicle concept and power management strategies. *2014 International Conference on Electrical Sciences and Technologies in Maghreb (CISTEM)*, 1–8. <https://doi.org/10.1109/CISTEM.2014.7077026>
9. Chou, S., Voss, J., Bargatin, I., Abild-Pedersen, F., Vojvodic, A., Pianetta, P., Nørskov, J. K., & Howe, R. T. (n.d.). *Discovering Materials with Ultra-low Work Functions for Energy Conversion Applications: Orbital-Overlap Model*. Global Climate and Energy Project Research Symposium.
10. *CO2 emissions from transport (% of total fuel combustion) | Data*. (n.d.). Retrieved October 18, 2019, from <https://data.worldbank.org/indicator/EN.CO2.TRAN.ZS>
11. *Compression-ignition engine from intake to exhaust port—Simulink—MathWorks India*. (n.d.). Retrieved August 21, 2020, from <https://in.mathworks.com/help/autoblks/ref/cicoreengine.html>
12. Cook, N., Vay, J.-L., Hall, C., & Edelen, J. (2018). *Self-Consistent Simulation and Optimization of Space-Charge Limited Thermionic Energy Converters*. 543–545. <https://doi.org/10.18429/JACoW-IPAC2018-MOPML060>
13. Cubito, C., Millo, F., Boccardo, G., Di Pierro, G., Ciuffo, B., Fontaras, G., Serra, S., Otura Garcia, M., & Trentadue, G. (2017). Impact of Different Driving Cycles and Operating Conditions on CO2 Emissions and Energy Management Strategies of a Euro-6 Hybrid Electric Vehicle. *Energies*, *10*(10), 1590, 1–18. <https://doi.org/10.3390/en10101590>
14. Datas, A., & Vaillon, R. (2019). Thermionic-enhanced near-field thermophotovoltaics for medium-grade heat sources. *Applied Physics Letters*, *114*(13), (133501)1-5. <https://doi.org/10.1063/1.5078602>

15. De, D. K., & Olawole, O. C. (2019). A three-dimensional model for thermionic emission from graphene and carbon nanotube. *Journal of Physics Communications*, 3(1), (015004)1-26. <https://doi.org/10.1088/2399-6528/aaf281>
16. De, D. K., Olawole, O. C., Oyedepo, S. O., Joel, E. S., Olawole, O. F., Emetere, M. E., Omeje, M., Ikono, U. I., & Nguyen, H. M. (2019). Highly Improved Thermionic Energy Converter. *Journal of Physics: Conference Series*, 1378, (022001)1-11. <https://doi.org/10.1088/1742-6596/1378/2/022001>
17. Deheeger, A., Badulescu, C., Mathias, J. D., & Grédiac, M. (2009). Experimental study of thermal stresses in a bonded joint. *Journal of Physics: Conference Series*, 181, (012041)1-6. <https://doi.org/10.1088/1742-6596/181/1/012041>
18. Donateo, T. (2012). Intelligent Usage of Internal Combustion Engines in Hybrid Electric Vehicles. In *Internal Combustion Engines* (pp. 133–160). <https://www.intechopen.com/books/internal-combustion-engines/intelligent-usage-of-internal-combustion-engines-in-hybrid-electric-vehicles>
19. Fairbanks, J. (n.d.). *Automotive Thermoelectric Generators and HVAC*. 29.
20. Fairchild, S. B., Back, T. C., Murray, P. T., Cahay, M. M., & Shiffler, D. A. (2011). Low work function CsI coatings for enhanced field emission properties. *Journal of Vacuum Science & Technology A*, 29(3), (031402)1-6. <https://doi.org/10.1116/1.3581058>
21. Fontaras, G., Pistikopoulos, P., & Samaras, Z. (2008). Experimental evaluation of hybrid vehicle fuel economy and pollutant emissions over real-world simulation driving cycles. *Atmospheric Environment*, 42(18), 4023–4035. <https://doi.org/10.1016/j.atmosenv.2008.01.053>
22. Fu, Y., Hansson, J., Liu, Y., Chen, S., Zehri, A., Samani, M. K., Wang, N., Ni, Y., Zhang, Y., Zhang, Z.-B., Wang, Q., Li, M., Lu, H., Sledzinska, M., Torres,

- C. M. S., Volz, S., Balandin, A. A., Xu, X., & Liu, J. (2019). Graphene related materials for thermal management. *2D Materials*, 7(1), (012001)1-42. <https://doi.org/10.1088/2053-1583/ab48d9>
23. Go, D. B., Haase, J. R., George, J., Mannhart, J., Wanke, R., Nojeh, A., & Nemanich, R. (2017). Thermionic Energy Conversion in the Twenty-first Century: Advances and Opportunities for Space and Terrestrial Applications. *Frontiers in Mechanical Engineering*, 3, 1–13. <https://doi.org/10.3389/fmech.2017.00013>
24. Hannan, M. A., Azidin, F. A., & Mohamed, A. (2014). Hybrid electric vehicles and their challenges: A review. *Renewable and Sustainable Energy Reviews*, 29, 135–150. <https://doi.org/10.1016/j.rser.2013.08.097>
25. Harold Schock, Eldon Case, Jonathan D'Angelo, Andrew Hartsig, & Tim Hogan. (2007). *Thermoelectric Conversion of Waste Heat to Electricity in an IC Engine Powered Vehicle*. <https://www.energy.gov/eere/vehicles/downloads/thermoelectric-conversion-waste-heat-electricity-ic-engine-powered-vehicle-7>
26. Ho, K. H., Newman, S. T., Rahimifard, S., & Allen, R. D. (2004). State of the art in wire electrical discharge machining (WEDM). *International Journal of Machine Tools and Manufacture*, 44(12), 1247–1259. <https://doi.org/10.1016/j.ijmachtools.2004.04.017>
27. Huang, J., Xu, Z., & Yang, Y. (2007). Low-Work-Function Surface Formed by Solution-Processed and Thermally Deposited Nanoscale Layers of Cesium Carbonate. *Advanced Functional Materials*, 17(12), 1966–1973. <https://doi.org/10.1002/adfm.200700051>
28. Humphrey, T. E., O'Dwyer, M. F., & Shakouri, A. (2005). A further comparison of solid-state thermionic and thermoelectric refrigeration. *ICT 2005. 24th*

- International Conference on Thermoelectrics, 2005.*, 211–214.  
<https://doi.org/10.1109/ICT.2005.1519921>
29. *Internal combustion engine with throttle and rotational inertia and time lag—MATLAB - MathWorks India.* (n.d.). Retrieved August 21, 2020, from <https://in.mathworks.com/help/physmod/sdl/ref/genericengine.html>
  30. *International Energy Statistics.* (n.d.). Retrieved October 18, 2019, from <https://www.eia.gov/beta/international/data/browser/#/?c=41000000020000600000000000g000200000000000000001&vs=INTL.44-1-AFRC-QBTU.A&vo=0&v=H&start=1980&end=2016>
  31. *International—U.S. Energy Information Administration (EIA).* (n.d.). Retrieved September 8, 2021, from <https://www.eia.gov/international/data/world>
  32. Janevska, G., Kostov, M., & Stojanovski, G. (2019). *Mathematical Modeling and Simulation of Hybrid Electric Vehicle.* 325–328. <https://icestconf.org/>
  33. Jarman, J. T., Khalil, E. E., & Khalaf, E. (2013). Energy Analyses of Thermoelectric Renewable Energy Sources. *Open Journal of Energy Efficiency*, 2(4), 143–153. <https://doi.org/10.4236/ojee.2013.24019>
  34. Jensen, D., Ghashami, M., & Park, K. (2019). Revisiting Submicron-Gap Thermionic Power Generation Based on Comprehensive Charge and Thermal Transport Modeling. *ArXiv:1907.06161 [Cond-Mat, Physics:Physics]*. <http://arxiv.org/abs/1907.06161>
  35. Johri, R., Yamazaki, M. S., Wang, X., Meyer, J., Doering, J. A., & Kuang, M. L. (2017). *Hybrid electric vehicle* (United States Patent No. US9637109B1). <https://patents.google.com/patent/US9637109B1/en>
  36. Kamarul Aizat Abdul Khalid. (2016). Review on Thermionic Energy Converters. *IEEE Transactions on Electron Devices*, 63(6), 2231–2241. <https://doi.org/10.1109/TED.2016.2556751>

37. Kanazaki, M., Morikawa, M., Obayashi, S., & Nakahashi, K. (2003). Exhaust Manifold Design for a Car Engine Based on Engine Cycle Simulation. In K. Matsuno, A. Ecer, N. Satofuka, J. Periaux, & P. Fox (Eds.), *Parallel Computational Fluid Dynamics 2002* (pp. 475–482). North-Holland. <https://doi.org/10.1016/B978-044450680-1/50060-7>
38. Ketan Warake, S.R. Bahulikar, & N. V. Satpute. (2018). Review of Regenerative Braking in Electric Vehicles. *International Journal of Engineering Science and Computing*, 8(6), 18351–18353.
39. Khalid, K. A. A., Leong, T. J., & Mohamed, K. (2016). Review on Thermionic Energy Converters. *IEEE Transactions on Electron Devices*, 63(6), 2231–2241. <https://doi.org/10.1109/TED.2016.2556751>
40. King, D. B., Sadwick, L. P., & Wernsman, B. R. (2001). *Microminiature thermionic converters* (United States Patent No. US6294858B1). <https://patents.google.com/patent/US6294858B1/en>
41. Kodihal, K., & Sagar, A. (2019a). Prototype design of a small scale thermionic energy generator for waste heat recovery in hybrid electric vehicle. *SAE Technical Paper*, 2019-28–0027, 1–5. <https://doi.org/10.4271/2019-28-0027>
42. Kodihal, K., & Sagar, A. (2019b). A Study and mathematical analysis of thermionic energy conversion materials based on their solid state emission properties. *SAE Technical Paper*, 2019-28–0084, 1–5. <https://doi.org/10.4271/2019-28-0084>
43. Koeck, F. A. M., Nemanich, R. J., Lazea, A., & Haenen, K. (2009). Thermionic electron emission from low work-function phosphorus doped diamond films. *Diamond and Related Materials*, 18(5), 789–791. <https://doi.org/10.1016/j.diamond.2009.01.024>

44. Lee, J. H., Bargatin, I., Gwinn, T. O., Vincent, M., Littau, K. A., Maboudian, R., Shen, Z.-X., Melosh, N. A., & Howe, R. T. (2012). Microfabricated silicon carbide thermionic energy converter for solar electricity generation. *2012 IEEE 25th International Conference on Micro Electro Mechanical Systems (MEMS)*, 1261–1264. <https://doi.org/10.1109/MEMSYS.2012.6170386>
45. Lee, J.-H., Bargatin, I., Melosh, N. A., & Howe, R. T. (2012). Optimal emitter-collector gap for thermionic energy converters. *Applied Physics Letters*, *100*(17), (173904)1-4. <https://doi.org/10.1063/1.4707379>
46. Liao, T. (2019). Improved Design of a Photon Enhanced Thermionic Energy Converter. *IEEE Electron Device Letters*, *40*(1), 115–118. <https://doi.org/10.1109/LED.2018.2881739>
47. Liao, Y. S., Huang, J. T., & Chen, Y. H. (2004). A study to achieve a fine surface finish in Wire-EDM. *Journal of Materials Processing Technology*, *149*(1), 165–171. <https://doi.org/10.1016/j.jmatprotec.2003.10.034>
48. Littau, K. A., Sahasrabudde, K., Barfield, D., Yuan, H., Shen, Z.-X., Howe, R. T., & Melosh, N. A. (2013). Microbead-separated thermionic energy converter with enhanced emission current. *Physical Chemistry Chemical Physics*, *15*(34), 14442–14446. <https://doi.org/10.1039/C3CP52895B>
49. Liu, Y., Raza, H., & Fisher, T. S. (2008). *Simulation of Thermionic Emission From a Quantum Wire Using the Non-Equilibrium Green's Function Method*. 53–60. <https://doi.org/10.1115/IMECE2004-59730>
50. Lo, F. S., Lu, P. S., Ragan-Kelley, B., Minnich, A. J., Lee, T. H., Lin, M. C., & Verboncoeur, J. P. (2014). Modeling a thermionic energy converter using finite-difference time-domain particle-in-cell simulations. *Physics of Plasmas*, *21*(2), (023510)1-6. <https://doi.org/10.1063/1.4865828>

51. Lu, L., Han, X., Li, J., Hua, J., & Ouyang, M. (2013). A review on the key issues for lithium-ion battery management in electric vehicles. *Journal of Power Sources*, 226, 272–288. <https://doi.org/10.1016/j.jpowsour.2012.10.060>
52. McCune, R. C., & Weber, G. A. (2001). Automotive Engine Materials. In K. H. J. Buschow, R. W. Cahn, M. C. Flemings, B. Ilshner, E. J. Kramer, S. Mahajan, & P. Veyssi re (Eds.), *Encyclopedia of Materials: Science and Technology* (pp. 426–434). Elsevier. <https://doi.org/10.1016/B0-08-043152-6/00086-3>
53. McLaren, J., Miller, J., O’Shaughnessy, E., Wood, E., & Shapiro, E. (2016). *Emissions Associated with Electric Vehicle Charging: Impact of Electricity Generation Mix, Charging Infrastructure Availability, and Vehicle Type* (NREL/TP-6A20-64852). National Renewable Energy Lab. (NREL), Golden, CO (United States). <https://doi.org/10.2172/1247645>
54. Meir, S., Stephanos, C., Geballe, T. H., & Mannhart, J. (2013). Highly-efficient thermoelectronic conversion of solar energy and heat into electric power. *Journal of Renewable and Sustainable Energy*, 5(4), (043127)1-15. <https://doi.org/10.1063/1.4817730>
55. Millner, A., Judson, N., Ren, B., Johnson, E., & Ross, W. (2010). Enhanced plug-in hybrid electric vehicles. *2010 IEEE Conference on Innovative Technologies for an Efficient and Reliable Electricity Supply*, 333–340. <https://doi.org/10.1109/CITRES.2010.5619783>
56. Mishra, S. K., Kahaly, M. U., & Misra, S. (2017). Efficient utilization of multilayer graphene towards thermionic convertors. *International Journal of Thermal Sciences*, 121, 358–368. <https://doi.org/10.1016/j.ijthermalsci.2017.07.018>
57. *Models.particle.planar\_diode.pdf*. (n.d.).

58. Mohammadi, F., Nazri, G.-A., & Saif, M. (2019). Modeling, Simulation, and Analysis of Hybrid Electric Vehicle Using MATLAB/Simulink. *2019 International Conference on Power Generation Systems and Renewable Energy Technologies (PGSRET)*, 1–5. <https://doi.org/10.1109/PGSRET.2019.8882686>
59. Moyzhes, B. Y., & Geballe, T. H. (2005). The thermionic energy converter as a topping cycle for more efficient heat engines—New triode designs with a longitudinal magnetic field. *Journal of Physics D: Applied Physics*, *38*(5), 782–786. <https://doi.org/10.1088/0022-3727/38/5/017>
60. Naghdi, S., & Sanchez-Arriaga, G. (2019). Work function tuning of graphene oxide by using cesium applied to low work function tethers. *Proceedings of the 2019 International Conference on Tethers in Space*, 1–6.
61. NOAA ESRL Global Monitoring Division. (n.d.). Retrieved October 18, 2019, from <https://www.esrl.noaa.gov/gmd/>
62. Nojeh, A. (2019). Thermionic Energy Conversion: Fundamentals and Recent Progress Enabled by Nanotechnology. *2019 19th International Conference on Micro and Nanotechnology for Power Generation and Energy Conversion Applications (PowerMEMS)*, 1–6. <https://doi.org/10.1109/PowerMEMS49317.2019.82063209528>
63. O. C. Olawole, D. K. De, O. F. Olawole, E. S. Joel, & S. O. Oyedepo. (2020). Current status of thermionic conversion of solar energy. *Current Science*, *118*(4), 543–552. <https://doi.org/10.18520/cs/v118/i4/543-552>
64. Olawole, O. C., & De, D. K. (2016). Modeling thermionic emission from carbon nanotubes with modified Richardson-Dushman equation. *Nanoengineering: Fabrication, Properties, Optics, and Devices XIII*, 9927, (992716)1-8. <https://doi.org/10.1117/12.2231357>

65. Olawole, O. C., & De, D. K. (2018). Theoretical studies of thermionic conversion of solar energy with graphene as emitter and collector. *Journal of Photonics for Energy*, 8(01), 1–20. <https://doi.org/10.1117/1.JPE.8.018001>
66. Olawole, O. C., De, D. K., & Oyedepo, S. O. (2016). Energy dynamics of solar thermionic power conversion with emitter of graphene. *Carbon Nanotubes, Graphene, and Emerging 2D Materials for Electronic and Photonic Devices IX*, 9932, (99320S)1-8. <https://doi.org/10.1117/12.2231361>
67. Panagiotidis, M., Delagrammatikas, G., & Assanis, D. N. (2000). Development and Use of a Regenerative Braking Model for a Parallel Hybrid Electric Vehicle. *SAE Technical Paper*, 1–14. <https://doi.org/10.4271/2000-01-0995>.
68. Parametric Optimum Design of a Graphene-Based Thermionic Energy Converter. (2017). *IEEE Transactions on Electron Devices*, 64(11), 4594–4598. <https://doi.org/10.1109/TED.2017.2747586>
69. Park, K., Choi, B., Lee, K., Kim, K., & Earmme, Y. (2006). Modelling and design of an exhaust manifold under thermomechanical loading. *Proceedings of The Institution of Mechanical Engineers Part D-Journal of Automobile Engineering - PROC INST MECH ENG D-J AUTO*, 220, 1755–1764. <https://doi.org/10.1243/09544070D06404>
70. Pham, V. H., Cuong, T. V., Hur, S. H., Shin, E. W., Kim, J. S., Chung, J. S., & Kim, E. J. (2010). Fast and simple fabrication of a large transparent chemically-converted graphene film by spray-coating. *Carbon*, 48(7), 1945–1951. <https://doi.org/10.1016/j.carbon.2010.01.062>
71. Piao, C., Jang, H., Lim, T., Kim, H., Choi, H. R., Hao, Y., & Suk, J. W. (2019). Enhanced dynamic performance of twisted and coiled soft actuators using graphene coating. *Composites Part B: Engineering*, 178, (107499)1-26. <https://doi.org/10.1016/j.compositesb.2019.107499>

72. Rajat Dhawan, Russell Hensley, Neeraj Huddar, Ramesh Mangaleswaran, Balaji Iyer, & Shivanshu Gupta. (n.d.). *The future of mobility in India: Challenges and opportunities for the auto component industry* / McKinsey. Retrieved October 21, 2019, from <https://www.mckinsey.com/industries/automotive-and-assembly/our-insights/the-future-of-mobility-in-india-challenges-and-opportunities-for-the-auto-component-industry>
73. Rajurkar, K. P., Sundaram, M. M., & Malshe, A. P. (2013). Review of Electrochemical and Electrodischarge Machining. *Procedia CIRP*, 6, 13–26. <https://doi.org/10.1016/j.procir.2013.03.002>
74. Reddy, K. S., Aravindhana, S., & Mallick, T. K. (2017). Techno-Economic Investigation of Solar Powered Electric Auto-Rickshaw for a Sustainable Transport System. *Energies*, 10(6), (754)1-15. <https://doi.org/10.3390/en10060754>
75. Regan, W., Byrnes, S., Gannett, W., Ergen, O., Vazquez-Mena, O., Wang, F., & Zettl, A. (2012). Screening-Engineered Field-Effect Solar Cells. *Nano Letters*, 12(8), 4300–4304. <https://doi.org/10.1021/nl3020022>
76. Ryan Smith, J. (2013). Increasing the efficiency of a thermionic engine using a negative electron affinity collector. *Journal of Applied Physics*, 114(16), (164514)1-7. <https://doi.org/10.1063/1.4826202>
77. Schwede, J. W., & Hess, L. H. (2019). *System and method for work function reduction and thermionic energy conversion* (United States Patent No. US20190115520A1). <https://patents.google.com/patent/US20190115520A1/en>
78. Serpente, V., Bellucci, A., Girolami, M., Mastellone, M., Mezzi, A., Kaciulis, S., Carducci, R., Polini, R., Valentini, V., & Trucchi, D. M. (2020). Ultra-thin films of barium fluoride with low work function for thermionic-thermophotovoltaic

- applications. *Materials Chemistry and Physics*, 249, (122989)1-6.  
<https://doi.org/10.1016/j.matchemphys.2020.122989>
79. Shikha Rokadiya. (n.d.). *Hybrid and electric vehicles in India: Current scenario and market incentives | International Council on Clean Transportation*. Retrieved October 18, 2019, from <https://theicct.org/publications/hybrid-and-electric-vehicles-in-india-current-scenario>
80. Silvas, E., Hofman, T., Murgovski, N., Etman, L. F. P., & Steinbuch, M. (2017). Review of Optimization Strategies for System-Level Design in Hybrid Electric Vehicles. *IEEE Transactions on Vehicular Technology*, 66(1), 57–70.  
<https://doi.org/10.1109/TVT.2016.2547897>
81. *Spark-ignition engine from intake to exhaust port—Simulink—MathWorks India*. (n.d.). Retrieved August 21, 2020, from <https://in.mathworks.com/help/autoblks/ref/sicoreengine.html>
82. Spitsov, O. (2013). *Heat transfer inside internal combustion engine: Modelling and comparison with experimental data* [Master's thesis, LAPPEENRANTA UNIVERSITY OF TECHNOLOGY]. <https://lutpub.lut.fi/handle/10024/90641>
83. Sun, T., Koeck, F. A. M., Zhu, C., & Nemanich, R. J. (2011). Combined visible light photo-emission and low temperature thermionic emission from nitrogen doped diamond films. *Applied Physics Letters*, 99(20), (202101)1-3.  
<https://doi.org/10.1063/1.3658638>
84. Szántó, A., & Szíki, G. Á. (2020). Review of Modern Vehicle Powertrains and Their Modelling and Simulation in MATLAB/Simulink. *Műszaki És Menedzsment Tudományi Közlemények*, 5(2), 232–250.  
<https://doi.org/10.21791/IJEMS.2020.2.29>
85. Thomas, J., Huff, S., West, B., & Chambon, P. (2017). Fuel Consumption Sensitivity of Conventional and Hybrid Electric Light-Duty Gasoline Vehicles

- to Driving Style. *SAE International Journal of Fuels and Lubricants*, 10(3), 672–689. <https://doi.org/10.4271/2017-01-9379>
86. Tiwari, A. K., Goss, J. P., Briddon, P. R., Horsfall, A. B., Wright, N. G., Jones, R., & Rayson, M. J. (2014). Unexpected change in the electron affinity of diamond caused by the ultra-thin transition metal oxide films. *EPL (Europhysics Letters)*, 108(4), (46005)1-6. <https://doi.org/10.1209/0295-5075/108/46005>
87. Tong, W., Deng, Y. D., Chen, S., Wang, W.-S., Xu, Y., & Su, C. (2014). A case study on compatibility of automotive exhaust thermoelectric generation system, catalytic converter and muffler. *Case Studies in Thermal Engineering*, 2, 62–66. <https://doi.org/10.1016/j.csite.2014.01.002>
88. Trucchi, D. M., & Melosh, N. A. (2017a). Electron-emission materials: Advances, applications, and models. *MRS Bulletin*, 42(7), 488–492. <https://doi.org/10.1557/mrs.2017.142>
89. Trucchi, D. M., & Melosh, N. A. (2017b). Electron-emission materials: Advances, applications, and models. *MRS Bulletin*, 42(7), 488–492. <https://doi.org/10.1557/mrs.2017.142>
90. Tsai, H.-L., & Lin, J.-M. (2010). Model Building and Simulation of Thermoelectric Module Using Matlab/Simulink. *Journal of Electronic Materials*, 39(9), 2105–2111. <https://doi.org/10.1007/s11664-009-0994-x>
91. *Two Mode Hybrid Transmission—MATLAB & Simulink—MathWorks India*. (n.d.). Retrieved August 21, 2020, from <https://in.mathworks.com/help/physmod/sdl/examples/two-mode-hybrid-transmission.html#d120e2226>
92. Uebbing, J. J., & James, L. W. (1970). Behavior of Cesium Oxide as a Low Work-Function Coating. *Journal of Applied Physics*, 41(11), 4505–4516. <https://doi.org/10.1063/1.1658489>

93. Vidhi, R., & Shrivastava, P. (2018). A Review of Electric Vehicle Lifecycle Emissions and Policy Recommendations to Increase EV Penetration in India. *Energies, 11*(3), 1–15. <https://doi.org/10.3390/en11030483>
94. Vogel, A., Ramachandran, D., Gupta, R., & Raux, A. (2012). Improving Hybrid Vehicle Fuel Efficiency Using Inverse Reinforcement Learning. *Twenty-Sixth AAAI Conference on Artificial Intelligence*, 384–390. <https://www.aaai.org/ocs/index.php/AAAI/AAAI12/paper/view/5143>
95. Von Paul Gao, Hans-Werner Kaas, Detlev Mohr, Dominik Wee, & Open interactive popup. (n.d.). *Automotive revolution – perspective towards 2030 / McKinsey*. Retrieved October 18, 2019, from <https://www.mckinsey.com/industries/automotive-and-assembly/our-insights/disruptive-trends-that-will-transform-the-auto-industry/de-de>
96. Wang, Y., Su, S., Lin, B., & Chen, J. (2013). Parametric design criteria of an irreversible vacuum thermionic generator. *Journal of Applied Physics, 114*(5), (053502)1-6. <https://doi.org/10.1063/1.4817084>
97. Wanke, R., Hassink, G. W. J., Stephanos, C., Rastegar, I., Braun, W., & Mannhart, J. (2016). Magnetic-field-free thermoelectronic power conversion based on graphene and related two-dimensional materials. *Journal of Applied Physics, 119*(24), (244507)1-4. <https://doi.org/10.1063/1.4955073>
98. Xin, Q. (2013a). 2—Durability and reliability in diesel engine system design. In Q. Xin (Ed.), *Diesel Engine System Design* (pp. 113–202). Woodhead Publishing. <https://doi.org/10.1533/9780857090836.1.113>
99. Xin, Q. (2013b). 13—Diesel engine air system design. In Q. Xin (Ed.), *Diesel Engine System Design* (pp. 860–908). Woodhead Publishing. <https://doi.org/10.1533/9780857090836.4.860>

100. Xing, Y., Ma, E. W. M., Tsui, K. L., & Pecht, M. (2011). Battery Management Systems in Electric and Hybrid Vehicles. *Energies*, 4(11), 1840–1857. <https://doi.org/10.3390/en4111840>
101. Yao Tong, Siva Bohm, & Mo Song. (n.d.). *Graphene based materials and their composites as coatings*. Retrieved February 4, 2020, from <https://austinpublishinggroup.com/nanomedicine-nanotechnology/fulltext/ajnn-v1-id1003.php>
102. Yuan, R., Sivasankaran, S., Dutta, N., Jansen, W., & Ebrahimi, K. (2020). Numerical investigation of buoyancy-driven heat transfer within engine bay environment during thermal soak. *Applied Thermal Engineering*, 164, (114525)1-8. <https://doi.org/10.1016/j.applthermaleng.2019.114525>
103. Zabek, D., & Morini, F. (2019). Solid state generators and energy harvesters for waste heat recovery and thermal energy harvesting. *Thermal Science and Engineering Progress*, 9, 235–247. <https://doi.org/10.1016/j.tsep.2018.11.011>
104. Zavadil, K. R., Battaile, C. C., Marshall, A. C., King, D. B., & Jennison, D. R. (2004). *Low work function material development for the microminiature thermionic converter*. (Report No. SAND2004-0555; pp. 1–115). <https://doi.org/10.2172/918773>
105. Zebarjadi, M. (2017). Solid-State Thermionic Power Generators: An Analytical Analysis in the Nonlinear Regime. *Phys. Rev. Applied*, 8(1), (014008)1-7. <https://doi.org/10.1103/PhysRevApplied.8.014008>
106. Zhang, Q., & Cen, S. (Eds.). (2016). 9—Multiphysics applications in automotive engineering. In *Multiphysics Modeling* (pp. 251–294). Academic Press. <https://doi.org/10.1016/B978-0-12-407709-6.00009-2>
107. Zhang, X., Ang, Y. S., Du, J.-Y., Chen, J., & Ang, L. K. (2017). Graphene-based thermionic-thermoradiative solar cells: Concept, efficiency limit, and optimum

design. *Journal of Cleaner Production*, 242, (118444)1-20.

<https://doi.org/10.1016/j.jclepro.2019.118444>