

รายการอ้างอิง

รายการอ้างอิง

- กรมการขนส่งทางบก. (2565). *กลุ่มสถิติการขนส่ง กองแผนงาน กรมการขนส่งทางบก*. สืบค้นจาก <https://web.dlt.go.th/statistics/>
- กรมควบคุมมลพิษ. (2563). *มลพิษจากรถยนต์ดีเซล – Pollution Control Department*. สืบค้นจาก <https://www.pcd.go.th/airandsound>
- ชญาพร พิซฟู, และ สุรัตน์ บัวเรศ. (2557). *การกระจายตัวตามขนาดของฝุ่นละอองนาโนในบรรยากาศ สำหรับพื้นที่เขตเมือง: กรุงเทพมหานคร Size Distribution of Ambient Nanosized Particulate Matters in Urban Area: Bangkok*. สืบค้นจาก <https://ph02.tci-thaijo.org/index.php/gskku/article/view/30956>
- พระราชบัญญัติควบคุมโรคจากการประกอบอาชีพและโรคจากสิ่งแวดล้อม. (2562). *ชื่อหรืออาการสำคัญของโรคจากสิ่งแวดล้อม*. สืบค้นจาก <https://ddc.moph.go.th/uploads/files/14720220324053247.PDF>
- ลีละหุด พิสน. (2565). *ทำความเข้าใจการมาตรฐานระยะทางของรถไฟฟ้าจาก EPA, NEDC และ WLTP*. สืบค้นจาก <https://www.autodeft.com/deftanswer/how-to-epa-nedc-wltp-test-electric-cars>
- อารีญา เอี่ยมบุญ. (2554). *การประเมินชั้นเคลือบแคลเซียม-ฟอสฟอรัสบนไทเทเนียมบริสุทธิ์ทางการค้าเพื่อใช้เป็นวัสดุชีวภาพ*. สืบค้นจาก http://thesis.swu.ac.th/swufac/Sci/Areeya_A_R418792.pdf
- Agarwal, A. K., Gupta, T., & Kothari, A. (2011). Particulate emissions from biodiesel vs diesel fuelled compression ignition engine. *Renewable and Sustainable Energy Reviews*, 15(6), 3278–3300. <https://doi.org/10.1016/j.rser.2011.04.002>
- Alam, K., Blaschke, T., Madl, P., Mukhtar, A., Hussain, M., Trautmann, T., & Rahman, S. (2011). Aerosol size distribution and mass concentration measurements in various cities of Pakistan. *Journal of Environmental Monitoring*, 13(7), 1944.
- American Conference of Governmental Industrial Hygienist. (2009). *Documentation of the threshold limit values for chemical substances*. <https://www.acgih.org/science/tlv-bei-guidelines/>
- American Lung Association. (2022). *Health Impact of Pollution | State of the Air*. Retrieved from <https://www.lung.org/research/sota/health-risks>
- Ashraful, A. M., Masjuki, H. H., & Kalam, M. A. (2015). Particulate matter, carbon emissions and elemental compositions from a diesel engine exhaust fuelled

- with diesel–biodiesel blends. *Atmospheric Environment*, 120, 463–474.
Retrieved from <https://doi.org/10.1016/j.atmosenv.2015.09.028>
- Bermúdez, V., Luján, J. M., Ruiz, S., Campos, D., & Linares, W. G. (2015). New European Driving Cycle assessment by means of particle size distributions in a light-duty diesel engine fuelled with different fuel formulations. *Fuel*, 140, 649–659.
Retrieved from <https://doi.org/10.1016/j.fuel.2014.10.016>
- Chatain, M., Alvarez, R., Ustache, A., Rivièrè, E., Favez, O., & Pallares, C. (2021). Simultaneous Roadside and Urban Background Measurements of Submicron Aerosol Number Concentration and Size Distribution (in the Range 20–800 nm), along with Chemical Composition in Strasbourg, France. *Atmosphere*, 12(1), Article 1. Retrieved from <https://doi.org/10.3390/atmos12010071>
- Deng, X., Feng, N., Zheng, M., Ye, X., Lin, H., Yu, X., Gan, Z., Fang, Z., Zhang, H., Gao, M., Zheng, Z.-J., Yu, H., Ding, W., & Qian, B. (2017). PM_{2.5} exposure-induced autophagy is mediated by lncRNA loc146880 which also promotes the migration and invasion of lung cancer cells. *Biochimica Et Biophysica Acta. General Subjects*, 1861(2), 112–125. Retrieved from <https://doi.org/10.1016/j.bbagen.2016.11.009>
- Deng, X., Zhang, F., Rui, W., Long, F., Wang, L., Feng, Z., Chen, D., & Ding, W. (2013). PM_{2.5}-induced oxidative stress triggers autophagy in human lung epithelial A549 cells. *Toxicology in Vitro: An International Journal Published in Association with BIBRA*, 27(6), 1762–1770. Retrieved from <https://doi.org/10.1016/j.tiv.2013.05.004>
- Dianna, S. (2020, April 2). *A Guide to Understanding Particulate Matter (PM)*. Retrieved from <https://learn.kaiterra.com/en/air-academy/particulate-matter-pm>
- ENVCO. (2023). *3080 Series Electrostatic Classifiers | Envco*. Envco global. Retrieved from <http://www.envcoglobal.com/catalog/air/particle-science/fine-particles/3080-series-electrostatic-classifiers>
- Fortoul, T. I., Rodriguez-Lara, V., Gonzalez-Villalva, A., Rojas-Lemus, M., Colin-Barenque, L., Bizarro-Nevarès, P., García-Peláez, I., Ustarroz-Cano, M., López-Zepeda, S., Cervantes-Yépez, S., López-Valdez, N., Meléndez-García, N., Espinosa-Zurutuza, M., Cano-Rodríguez, G. C.-G. and M. C., Fortoul, T. I., Rodriguez-Lara, V., Gonzalez-Villalva, A., Rojas-Lemus, M., Colin-Barenque, L., ... Cano-Rodríguez, G. C.-G. and M. C. (2015). Health Effects of Metals in Particulate Matter. In *Current Air Quality Issues*. IntechOpen. Retrieved from <https://doi.org/10.5772/59749>

- Fujitani, Y., Saitoh, K., Kondo, Y., Fushimi, A., Takami, A., Tanabe, K., & Kobayashi, S. (2016). Characterization of structure of single particles from various automobile engines under steady-state conditions. *Aerosol Science and Technology*, *50*(10), 1055–1067. Retrieved from <https://doi.org/10.1080/02786826.2016.1218438>
- Gani, S., Bhandari, S., Patel, K., Seraj, S., Soni, P., Arub, Z., Habib, G., Hildebrandt Ruiz, L., & Apte, J. S. (2020). *Particle number concentrations and size distribution in a polluted megacity: The Delhi Aerosol Supersite study* [Preprint]. Aerosols/Field Measurements/Troposphere/Physics (physical properties and processes). Retrieved from <https://doi.org/10.5194/acp-2020-6>
- Girão, A., Caputo, G., & Ferro, M. (2017). Application of Scanning Electron Microscopy-Energy Dispersive X-ray Spectroscopy (SEM-EDS). In *Comprehensive Analytical Chemistry*. Retrieved from <https://doi.org/10.1016/bs.coac.2016.10.002>
- GRIMM. (2010). *Portable Laser Aerosolspectrometer and Dust Monitor Model 1.108/1.109*. GRIMM areosol. Retrieved from <https://cires1.colorado.edu/jimenezgroup/Manuals/Grimm OPC Manual.pdf>
- Ha, S., Hu, H., Roussos-Ross, D., Haidong, K., Roth, J., & Xu, X. (2014). The effects of air pollution on adverse birth outcomes. *Environmental Research*, *134*, 198–204. Retrieved from <https://doi.org/10.1016/j.envres.2014.08.002>
- Habil, M., Massey, D. D., Taneja, A., Habil, M., Massey, D. D., & Taneja, A. (2019). Mass and Number and Its Chemical Composition Distribution of Particulate Matter in Different Microenvironments. In *Indoor Environment and Health*. IntechOpen. Retrieved from <https://doi.org/10.5772/intechopen.82801>
- Hamanaka, R. B., & Mutlu, G. M. (2018). Particulate Matter Air Pollution: Effects on the Cardiovascular System. *Frontiers in Endocrinology*, *9*. Retrieved from <https://www.frontiersin.org/articles/10.3389/fendo.2018.00680>
- IARC. (2012). *IARC: DIESEL ENGINE EXHAUST CARCINOGENIC*. https://www.iarc.who.int/wp-content/uploads/2018/07/pr213_E.pdf
- International Council on Clean Transportation. (2018). *EU: Light-duty: New European Driving Cycle | Transport Policy*. International Council on Clean Transportation. <https://www.transportpolicy.net/standard/eu-light-duty-new-european-driving-cycle/>
- ISO/TS 27687. (2008). *ISO/TS 27687:2008(en), Nanotechnologies—Terminology and definitions for nano-objects—Nanoparticle, nanofibre and nanoplate*. Retrieved from <https://www.iso.org/obp/ui/#iso:std:iso:ts:27687:ed-1:v2:en>

- Jankowska, E. (2010). Mass and Number Concentration and Size Distribution of Particles Emitted from Diesel Engine. *International Journal of Thermal and Environmental Engineering*, 3(2), 109–112. <https://doi.org/10.5383/ijtee.03.02.008>
- Jung, S., Lim, J., Kwon, S., Jeon, S., Kim, J., Lee, J., & Kim, S. (2017). Characterization of particulate matter from diesel passenger cars tested on chassis dynamometers. *Journal of Environmental Sciences*, 54, 21–32. Retrieved from <https://doi.org/10.1016/j.jes.2016.01.035>
- Kim, H., Sung, Y., Jung, K., Choi, B., & Lim, M. T. (2008). Size distributions and number concentrations of particles from the DOC and CDPF. *Journal of Mechanical Science and Technology*, 22(9), 1793–1799. <https://doi.org/10.1007/s12206-008-0610-7>
- Kim, K., Chung, W., Kim, M., Kim, C., Myung, C.-L., & Park, S. (2013). *Energies | Free Full-Text | Inspection of PN, CO2, and Regulated Gaseous Emissions Characteristics from a GDI Vehicle under Various Real-World Vehicle Test Modes | HTML*. Retrieved November 14, 2022, from <https://www.mdpi.com/1996-1073/13/10/2581/htm>
- Kotek, M., Jindra, P., & Prikner, P. (2017). *Comparison of PM production in gasoline and diesel engine exhaust gases*. Retrieved from https://agronomy.emu.ee/wp-content/uploads/2017/05/Vol15SP1_Kotek.pdf
- Kumar, A., Srivastava, D., Agrawal, M., & Goel, A. (2014). Snapshot of PM Loads Evaluated at Major Road and Railway Intersections in an Urban Locality. *International Journal of Environmental Protection*, 4. Retrieved from <https://home.iitk.ac.in/~anubha/Snapshot%20of%20PM.pdf>
- Li, N., Georas, S., Alexis, N., Fritz, P., Xia, T., Williams, M., Horner, W., & Nel, A. (2016). Why Ambient Ultrafine and Engineered Nanoparticles Should Receive Special Attention for Possible Adverse Health Outcomes in Humans. *Journal of Allergy and Clinical Immunology*, 138. Retrieved from <https://doi.org/10.1016/j.jaci.2016.02.023>
- Liati, A., Dimopoulos Eggenschwiler, P., Müller Gubler, E., Schreiber, D., & Aguirre, M. (2012). Investigation of diesel ash particulate matter: A scanning electron microscope and transmission electron microscope study. *Atmospheric Environment*, 49, 391–402. Retrieved from <https://doi.org/10.1016/j.atmosenv.2011.10.035>
- Liati, A., Schreiber, D., Arroyo Rojas Dasilva, Y., & Dimopoulos Eggenschwiler, P. (2018). Ultrafine particle emissions from modern Gasoline and Diesel vehicles: An

- electron microscopic perspective. *Environmental Pollution*, 239, 661–669. Retrieved from <https://doi.org/10.1016/j.envpol.2018.04.081>
- Lu, Z., Deng, S., Liu, X., Huang, L., Zhang, R., Song, H., & Li, G. (2021). Morphology and composition of particles emitted from conventional and alternative fuel vehicles. *Environmental Science and Pollution Research*, 28(16), 19810–19821. Retrieved from <https://doi.org/10.1007/s11356-020-11671-6>
- Mathis, U., Mohr, M., & Forss, A.-M. (2005). Comprehensive particle characterization of modern gasoline and diesel passenger cars at low ambient temperatures. *Atmospheric Environment*, 39(1), 107–117. Retrieved from <https://doi.org/10.1016/j.atmosenv.2004.09.029>
- Ning, Z. (2005). Measurement and dispersion prediction of gaseous and particle emissions from on-road vehicles in Hong Kong. Retrieved from https://www.researchgate.net/profile/Zhi-Ning-3/publication/277159059_Measurement_and_dispersion_prediction_of_gaseous_and_particle_emissions_from_onroad_vehicles_in_Hong_Kong
- Oberdörster, G., Oberdörster, E., & Oberdörster, J. (2005). NANOTOXICOLOGY: An emerging discipline evolving from studies of ultrafine particles. *Environmental Health Perspectives*, 113, 823–839. Retrieved from <https://doi.org/10.1289/ehp.7339>
- Office of industrial economics. (2022). *มาตรฐานสากลใน Ecosticker มีอะไรบ้าง*. OFFICE OF INDUSTRIAL ECONOMICS. Retrieved from <https://www.car.go.th/landing-page/article/what-is-international-standard>
- Orville, C. (2007). *Gasoline engine | Operation, Fuel, & Facts | Britannica*. Retrieved from <https://www.britannica.com/technology/gasoline-engine>
- OSHA. (2013). *OSHA-MSHA*. Retrieved from <https://www.osha.gov/sites/default/files/publications/OSHA-3590.pdf>
- OSHA. (2016). *Silica, Crystalline—Health Effects | Occupational Safety and Health Administration*. Retrieved from <https://www.osha.gov/silica-crystalline/health-effects>
- Peckham, M., Finch, A., Price, P., & Davies, M. (2011). Study of Particle Number Emissions from a Turbocharged Gasoline Direct Injection (GDI) Engine Including Data from a Fast-Response Particle Size Spectrometer. *SAE Technical Papers*. Retrieved from <https://doi.org/10.4271/2011-01-1224>
- Raza, M., Chen, L., Leach, F., & Ding, S. (2018). A Review of Particulate Number (PN) Emissions from Gasoline Direct Injection (GDI) Engines and Their Control Techniques. *Energies*, 6. Retrieved from <https://doi.org/10.3390/en11061417>

- Ristovski, Z. D., Miljevic, B., Surawski, N. C., Morawska, L., Fong, K. M., Goh, F., & Yang, I. A. (2012). Respiratory health effects of diesel particulate matter. *Respirology*, *17*(2), 201–212. Retrieved from <https://doi.org/10.1111/j.1440-1843.2011.02109.x>
- Rossomando, B., Meloni, E., De Falco, G., Sirignano, M., Arsie, I., & Palma, V. (2021). Experimental characterization of ultrafine particle emissions from a light-duty diesel engine equipped with a standard DPF. *Proceedings of the Combustion Institute*, *38*(4), 5695–5702. <https://doi.org/10.1016/j.proci.2020.09.011>
- Savic, N., Rahman, M. M., Miljevic, B., Saathoff, H., Naumann, K. H., Leisner, T., Riches, J., Gupta, B., Motta, N., & Ristovski, Z. D. (2016). Influence of biodiesel fuel composition on the morphology and microstructure of particles emitted from diesel engines. *Carbon*, *104*, 179–189. Retrieved from <https://doi.org/10.1016/j.carbon.2016.03.061>
- Shen, X., Shi, Y., Kong, L., Cao, X., Li, X., Wu, B., Yao, X., & Yao, Z. (2021). Particle number emissions from light-duty gasoline vehicles in Beijing, China. *Science of The Total Environment*, *773*, 145663. Retrieved from <https://doi.org/10.1016/j.scitotenv.2021.145663>
- STREC. (2023). *Field Emission Scanning Electron Microscope and Energy Dispersive X-ray Spectrometer – FESEM-EDS (7610F) – STREC*. Retrieved from <https://strec.chula.ac.th/equipments-rates/field-emission-scanning-electron-microscope-and-energy-dispersive-x-ray-spectrometer-fesem-eds-7610f>
- Taxell, P., & Santonen, T. (2017). Diesel Engine Exhaust: Basis for Occupational Exposure Limit Value. *Toxicological Sciences: An Official Journal of the Society of Toxicology*, *158*(2), 243–251. Retrieved from <https://doi.org/10.1093/toxsci/kfx110>
- TSI. (2023). *P-Trak Ultrafine Particle Counter 8525 | TSI*. Retrieved from <https://tsi.com/products/indoor-air-quality-meters-instruments/indoor-air-quality-meters/p-trak-ultrafine-particle-counter-8525/>
- UN. (2015). *UN R83*. UNITED NATIONS. Retrieved from <https://unece.org/fileadmin/DAM/trans/main/wp29/wp29regs/R083r5e.pdf>
- US EPA, O. (2016, March 7). *Particulate Matter (PM) Pollution* [Collections and Lists]. Retrieved from <https://www.epa.gov/pm-pollution>
- Verma, P., Pickering, E., Jafari, M., Guo, Y., Stevanovic, S., Fernando, J. F. S., Golberg, D., Brooks, P., Brown, R., & Ristovski, Z. (2019). Influence of fuel-oxygen content on morphology and nanostructure of soot particles. *Combustion and*

- Flame*, 205, 206–219. Retrieved from <https://doi.org/10.1016/j.combustflame.2019.04.009>
- Wang, S., Zhu, X., Somers, L. M. T., & de Goey, L. P. H. (2017). Effects of exhaust gas recirculation at various loads on diesel engine performance and exhaust particle size distribution using four blends with a research octane number of 70 and diesel. *Energy Conversion and Management*, 149, 918–927. Retrieved from <https://doi.org/10.1016/j.enconman.2017.03.087>
- Wang, Y., Liu, H., Li, T., Jiang, H., He, P., Liu, D., Zhang, J., Xiong, Q., & Liu, L. (2019). Characterization of the Morphology and Nanostructure of the Soot Particles Produced within Transient Diesel Reacting Jet Flame by Using Thermophoretic Sampling Technique. *Energy & Fuels*, 33(9), 9124–9137. Retrieved from <https://doi.org/10.1021/acs.energyfuels.9b00810>
- Weber, C., Sundvor, I., & Figenbaum, E. (2019). Comparison of regulated emission factors of Euro 6 LDV in Nordic temperatures and cold start conditions: Diesel- and gasoline direct-injection. *Atmospheric Environment*, 206, 208–217. Retrieved from <https://doi.org/10.1016/j.atmosenv.2019.02.031>
- WHO. (2013). *Health-effects-of-particulate-matter-final-Eng.pdf*. World health organization. Retrieved from https://www.euro.who.int/__data/assets/pdf_file/0006/189051/Health-effects-of-particulate-matter-final-Eng.pdf
- William, S. (2012, September 25). *Biomass Incinerators and Ultrafine Particles*. Retrieved from <https://www.saveamericasforests.org/Forests%20-%20Incinerators%20-%20Biomass/Documents/Briefing/Presentations/Presentations%20PDF/Ultrafine%20Particles.pdf>
- Winkel, A., Demeyer, P., Feilberg, A., Jørgensen, M., Puterflam, J., & Engel, P. (2014). *Measurement of particulate matter: Recommendations for the VERA test protocol on air cleaning technologies*. Retrieved from <https://edepot.wur.nl/320606>
- Woodford, C. (2022). *How do diesel engines work?* Explain That Stuff. Retrieved from <http://www.explainthatstuff.com/diesel-engines.html>
- Yang, H.-H., Dhital, N. B., Wang, L.-C., Hsieh, Y.-S., Lee, K.-T., Hsu, Y.-T., & Huang, S.-C. (2019). Chemical Characterization of Fine Particulate Matter in Gasoline and Diesel Vehicle Exhaust. *Aerosol and Air Quality Research*, 19(6), 1349–1449. Retrieved from <https://doi.org/10.4209/aaqr.2019.04.0191>

Yang, Z., Mahendran, R., Yu, P., Xu, R., Yu, W., Godellawattage, S., Li, S., & Guo, Y. (2022). Health Effects of Long-Term Exposure to Ambient PM_{2.5} in Asia-Pacific: A Systematic Review of Cohort Studies. *Current Environmental Health Reports*, 9(2), 130–151. Retrieved from <https://doi.org/10.1007/s40572-022-00344-w>