Zhenhong Lin

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EMPLOYMENT

Oak Ridge National Laboratory, Oak Ridge, TN
- Senior R&D Staff — 2013 to present
- R&D Staff — 2010 to 2013
- R&D Associate — 2008 to 2010

University of Tennessee, Knoxville, TN
- Associate Professor (joint faculty) of Industrial and Systems Engineering — 2015 to Present

California Air Resources Board, Sacramento, CA
- Air Resources Engineer — 01/2008 to 06/2008

Global Energy Decisions, Inc., Sacramento, CA
- Senior Consultant — 07/2007 to 12/2007

U.S. Environmental Protection Agency, Durham, NC
- Energy Analyst (intern) — 06/2006 to 09/2006

University of California, Davis, CA
- Graduate Student Researcher — 03/2003 to 06/2008

EDUCATION

University of California at Davis — Davis, CA, USA
- PhD in Civil & Environmental Engineering — 06/2008
- MS in Transportation Technology & Policy — 08/2004

Tsinghua University — Beijing, China
- MS in Power Machinery & Engineering — 07/2002
- BE in Automotive Engineering — 07/2000

TEACHING

Adjunct Professor (Engineering Economics), University of the Pacific, Stockton, CA — 2005

PROFESSIONAL AFFILIATIONS

Member, Editorial Board of World Electric Energy Journal, since 2020

Member, Editorial Board of Transportation Research Part D, since 2020

Member, U.S. National Academies of Sciences, Engineering, and Medicine, Committee on the Assessment of Technologies for Improving Fuel Economy of Light-Duty Vehicles – Phase 3, since 2018

Member, Alternative Transp. Fuels and Technologies Committee, Transportation Research Board, 2014-present

Young Member, Transportation Energy Committee, Transportation Research Board, 2011-2014

Senior Member, IEEE, since 2010

AWARDS & HONORS

2017 Department of Energy Vehicle Technologies Office Distinguished Achievement Award

2011 Department of Energy Vehicle Technologies Program R&D Award

2007 Best Paper by 2nd World Congress of Young Scientists on H2 Energy Systems

PUBLICATIONS

Peer-reviewed Articles

1. **Lin, Z.***, Xie, F. and Ou, S., 2020. Modeling the External Effects of Air Taxis in Reducing the Energy Consumption of Road Traffic. Transportation Research Record, p.0361198120952791.
2. Bi, Z., Reiner, M. A., Keoleian, G. A., Zhou, Y., Wang, M., & **Lin, Z.** (2020). Wireless charging and shared autonomous battery electric vehicles (W+ SABEV): synergies that accelerate sustainable mobility and greenhouse gas emission reduction. Mitigation and Adaptation Strategies for Global Change, 25(3), 397-411.
3. Dong, J., Wu, X., Liu, C., **Lin, Z.** and Hu, L., 2020. The impact of reliable range estimation on battery electric vehicle feasibility. International Journal of Sustainable Transportation, 14(11), pp.833-842.
4. Hao, X., **Lin, Z.***, Wang, H., Ou, S., & Ouyang, M. (2020). Range cost-effectiveness of plug-in electric vehicle for heterogeneous consumers: an expanded total ownership cost approach. Applied Energy, 275, 115394.
5. Hao, X., Wang, H., **Lin, Z.**, & Ouyang, M. (2020). Seasonal effects on electric vehicle energy consumption and driving range: A case study on personal, taxi, and ridesharing vehicles. *Journal of Cleaner Production*, *249*, 119403.
6. He, X., Ou, S., Gan, Y., Lu, Z., Przesmitzki, S.V., Bouchard, J.L., Sui, L., Amer, A.A., **Lin, Z.**, Yu, R. and Zhou, Y., 2020. Greenhouse gas consequences of the China dual credit policy. Nature Communications, 11(1), pp.1-10.
7. Li, S., Xie, F., Huang, Y., **Lin, Z.*** and Liu, C., 2020. Optimizing workplace charging facility deployment and smart charging strategies. Transportation Research Part D: Transport and Environment, 87, p.102481.
8. Ou, S., He, X., Ji, W., Chen, W, Sui, L., Gan, Y., Lu, Z., **Lin,. Z.**, Deng, S., Przesmitzki, S., and Bouchard, J. (2020). Machine learning model to project the impact of COVID-19 on US motor gasoline demand. Nature Energy. https://doi.org/10.1038/s41560-020-0662-1
9. Ou, S., **Lin, Z.***, He, X., Przesmitzki, S., & Bouchard, J. (2020). Modeling charging infrastructure impact on the electric vehicle market in China. *Transportation Research Part D: Transport and Environment*, *81*, 102248.
10. Ou, S., Gohlke, D., & **Lin, Z.*** (2020). Quantifying the Impacts of Micro-and Mild-Hybrid Vehicle Technologies on Fleetwide Fuel Economy and Electrification. *ETransportation*, 100058.
11. Wang, B., Li, S., Wang, Q. and **Lin, Z.**, 2020. Understanding travelers' mobility decisions in response to customer incentives. Transport Policy, 97, pp.113-120.
12. Ou, S., **Lin, Z.***, Xu, G., Hao, X., Li, H., Gao, Z., He, X., Przesmitzki, S., & Bouchard, J. (2020). The retailed gasoline price in China: Time-series analysis and future trend projection. Energy, 191, 116544.
13. Ou, S., Li, W., Li, J., **Lin, Z.***, He, X., Bouchard, J., and Przesmitzki, S. (2020). Relationships between Vehicle Pricing and Features: Data Driven Analysis of the Chinese Vehicle Market. Energies 13 (12), 1-25
14. Ou, S., Yu, R., **Lin, Z.***, Ren, H., He, X., Przesmitzki, S. and Bouchard, J., 2020. Intensity and daily pattern of passenger vehicle use by region and class in China: estimation and implications for energy use and electrification. Mitigation and Adaptation Strategies for Global Change, 25(3), pp.307-327.
15. Liu, N., Xie, F., **Lin, Z.***, & Jin, M. (2019). Evaluating national hydrogen refueling infrastructure requirement and economic competitiveness of fuel cell electric long-haul trucks. *Mitigation and Adaptation Strategies for Global Change*, 1–17.
16. Ou, S., Hao, X., **Lin, Z.**, Wang, H., Bouchard, J., He, X., Przesmitzki, S., Wu, Z., Zheng, J., Lv, R. and Qi, L., 2019. Light-duty plug-in electric vehicles in China: An overview on the market and its comparisons to the United States. Renewable and Sustainable Energy Reviews, 112, pp.747-761.
17. Hu, L., Dong, J. and **Lin, Z.**, 2019. Modeling charging behavior of battery electric vehicle drivers: A cumulative prospect theory based approach. Transportation Research Part C: Emerging Technologies, 102, pp.474-489.
18. Xie, F., Liu, N., Jin, M. and **Lin, Z.***, 2019. Impacts of the consumer heterogeneity in fuel economy valuation on compliance with fuel economy standards. Energy, 177, pp.167-174.
19. Maness, M., & **Lin, Z.*** (2019). Free Charging: Exploratory Study of Its Impact on Electric Vehicle Sales and Energy. Transportation Research Record. https://doi.org/10.1177/0361198119844966
20. Bi, Z., Keoleian, G.A., **Lin, Z.**, Moore, M.R., Chen, K., Song, L. and Zhao, Z., 2019. Life cycle assessment and tempo-spatial optimization of deploying dynamic wireless charging technology for electric cars. Transportation Research Part C: Emerging Technologies, 100, pp.53-67.

21. Kontou, E., Liu, C., Xie, F., Wu, X. and **Lin, Z.**, 2019. Understanding the linkage between electric vehicle charging network coverage and charging opportunity using GPS travel data. Transportation Research Part C: Emerging Technologies, 98, pp.1-13.
22. Xie F, **Lin Z.***, Podkaminer K. 2019. Could a bioenergy program stimulate electric vehicle market penetration? Potential impacts of biogas to electricity annual rebate program. GCB Bioenergy. 11(4):623–634.
23. Gao, Zhiming, **Zhenhong Lin**, Stacy Cagle Davis, Alicia K. Birky, 2018. "Quantitative Evaluation of MD/HD Vehicle Electrification using Statistical Data." Transportation Research Record, Vol. 2671(24), Pages 109-121.
24. Ou, Shiqi, **Zhenhong Lin***, Liang Qi, Jie Li, Xin He, Steven Przesmitzki, 2018. "The dual-credit policy: Quantifying the policy impact on plug-in electric vehicle sales and industry profits in China." Energy Policy, 121:597-610
25. McCollum, David L., Charlie Wilson, Michela Bevione, Samuel Carrara, Oreane Y. Edelenbosch, Johannes Emmerling, Celine Guivarch, Panagiotis Karkatsoulis, Ilkka Keppo, Volker Krey, **Zhenhong Lin**, Eoin O Broin, Leonidas Paroussos, Hazel Pettifor, Kalai Ramea, Keywan Riahi, Fuminori Sano, Baltazar Solano Rodriguez & Detlef P. van Vuuren , 2018. "Interaction of consumer preferences and climate policies in the global transition to low-carbon vehicles." Nature Energy, 3:664-673.
26. Gnann, Till, Thomas S. Stephens, **Zhenhong Lin**, Patrick Plotz, Changzheng Liu, Jens Brokate, 2018. "What drives the market for plug-in electric vehicles? - A review of international PEV market diffusion models." Renewable and Sustainable Energy Reviews, 93:158-164
27. Ou, Shiqi, **Zhenhong Lin***, Xin He, and Steven Przesmitzki, 2018. "Estimation of vehicle home parking availability in China and quantification of its potential impacts on plug-in electric vehicle ownership cost." Transport Policy, 68: 107-117
28. **Lin, Zhenhong***, Shiqi Ou, Amgad Elgowainy, Krishna Reddi, Mike Veenstra, Laura Verduzco. 2018. "A method for determining the optimal delivered hydrogen pressure for fuel cell electric vehicles." Applied Energy 216:183-194. doi: https://doi.org/10.1016/j.apenergy.2018.02.041
29. Hu, Liang, Jing Dong, **Zhenhong Lin**, and Jie Yang. 2018. "Analyzing battery electric vehicle feasibility from taxi travel patterns: The case study of New York City, USA." Transportation Research Part C: Emerging Technologies 87:91-104. doi: https://doi.org/10.1016/j.trc.2017.12.017
30. Xie, Fei, Changzheng Liu, Shengyin Li, **Zhenhong Lin**, and Yongxi Huang. 2018. "Long-term strategic planning of inter-city fast charging infrastructure for battery electric vehicles." Transportation Research Part E: Logistics and Transportation Review 109:261-276. doi: https://doi.org/10.1016/j.tre.2017.11.014.
31. Gao, Zhiming, **Zhenhong Lin**, and Oscar Franzese. 2017. "Energy Consumption and Cost Savings of Truck Electrification for Heavy-Duty Vehicle Applications." Transportation Research Record: Journal of the Transportation Research Board 2628:99-109. doi: 10.3141/2628-11.
32. Xie, Fei, **Zhenhong Lin***, and Rachael Nealer. 2017. "Performance, Cost, and Market Share of Conventional Vehicle Efficiency Technologies?" Transportation Research Record: Journal of the Transportation Research Board 2628:67-77. doi: 10.3141/2628-08.
33. Xie, Fei, and **Zhenhong Lin***. 2017. "Market-driven automotive industry compliance with fuel economy and greenhouse gas standards: Analysis based on consumer choice." Energy Policy 108:299-311. doi: https://doi.org/10.1016/j.enpol.2017.05.060.
34. Liu, Changzheng, and **Zhenhong Lin**. 2017. "How uncertain is the future of electric vehicle market: Results from Monte Carlo simulations using a nested logit model." International Journal of Sustainable Transportation 11 (4):237-247. doi: 10.1080/15568318.2016.1248583.
35. Gao, Z., **Z. Lin**, T.J. LaClair, C. Liu, J.-M. Li, A.K. Birky, J. Ward. 2017. "Battery capacity and recharging needs for electric buses in city transit service". Energy 122:588-600.
36. Yang, Jie, Jing Dong, **Zhenhong Lin**, Liang Hu. 2016. Predicting market potential and environmental benefits of deploying electric taxis in Nanjing, China, Transportation Research Part D: Transport and Environment, Vol 49, p 68-81.
37. Campbell, Russ; Zhou, Yan; **Lin, Zhenhong**; Ward, Jacob. 2016. "Analysis of Manufacturer Plug-In Electric Vehicle Incentives." World Electr. Veh. J. 8, no. 4: 846-857.
38. David L. McCollum, Charlie Wilson, Hazel Pettifor, Kalai Ramea, Volker Krey, Keywan Riahi, Christoph Bertram, **Zhenhong Lin**, Oreane Y. Edelenbosch, Sei Fujisawa, Improving the behavioral realism of global integrated assessment models: An application to consumers' vehicle choices, Transportation Research Part D: Transport and Environment, Available online 3 May 2016, ISSN 1361-9209, http://dx.doi.org/10.1016/j.trd.2016.04.003.
39. Liu, Changzheng; **Lin, Zhenhong**. 2015. "Early Hydrogen Station Economics Analysis." World Electr. Veh. J. 7, no. 4: 511-517.

40. Eleftheria Kontou, Yafeng Yin, **Zhenhong Lin**. 2015. Socially optimal electric driving range of plug-in hybrid electric vehicles, Transportation Research Part D: Transport and Environment, Volume 39, August 2015, Pages 114-125, ISSN 1361-9209, http://dx.doi.org/10.1016/j.trd.2015.07.002.
41. Xing Wu, Md. Aviquzzaman, **Zhenhong Lin**. 2015. Analysis of plug-in hybrid electric vehicles' utility factors using GPS-based longitudinal travel data, Transportation Research Part C: Emerging Technologies, Volume 57, August 2015, Pages 1-12, ISSN 0968-090X, http://dx.doi.org/10.1016/j.trc.2015.05.008.
42. **Lin, Z.***, Li, J. & Dong, J. (2014). Dynamic Wireless Charging: Potential Impact on Plug-in Electric Vehicle Adoption. Society of Automotive Engineers Technical Papers 2014-01-1965
43. Dong, Jing, **Lin, Zhenhong**, Liu, Changzheng, and Liu, Yanghe. (2014). "Assessing Grid Impact of Plug-in Electric Vehicle Charging Demand Using GPS-Based Longitudinal Travel Survey Data." *Society of Automotive Engineers Technical Papers* 2014-01-0343.
44. Wu, Xing, Jing Dong, and **Zhenhong Lin**. (2014). "Cost Analysis of Plug-in Hybrid Electric Vehicles Using GPS-Based Longitudinal Travel Data." *Energy Policy* 68: 206–17. doi: http://dx.doi.org/10.1016/j.enpol.2013.12.054.
45. Dong, Jing, & **Lin, Zhenhong**. (2014). Stochastic Modeling of Battery Electric Vehicle Driver Behavior: The Impact of Charging Infrastructure Deployment on BEV Feasibility. Transportation Research Record, 12/2014; 2454(-1):61-67. DOI: http://dx.doi.org/10.3141/2454-08 .
46. **Lin, Z.*** (2014). Battery Electric Vehicles: Range Optimization and Diversification for U.S. Drivers. *Transportation Science* 48(4):635-650. http://dx.doi.org/10.1287/trsc.2013.0516
47. Dong, J., Liu, C., & **Lin, Z**. (2014). Charging infrastructure planning for promoting battery electric vehicles: An activity-based approach using multiday travel data. *Transportation Research Part C: Emerging Technologies*, *38*(0), 44 – 55. doi: http://dx.doi.org/10.1016/j.trc.2013.11.001
48. Greene, D. L., **Lin, Z**., & Dong, J. (2013). Analyzing the sensitivity of hydrogen vehicle sales to consumers' preferences. *International Journal of Hydrogen Energy*, *38*(36), 15857 – 15867. doi: http://dx.doi.org/10.1016/j.ijhydene.2013.08.099
49. **Lin, Z.***, Dong, J., & Greene, D. L. (2013). Hydrogen vehicles: Impacts of DOE technical targets on market acceptance and societal benefits. *International Journal of Hydrogen Energy*, *38*(19), 7973–7985. doi: http://dx.doi.org/10.1016/j.ijhydene.2013.04.120
50. **Lin, Z.*** (2012). *Measuring Range Anxiety: the Substitution-Emergency-Detour (SED) Method.* World Electric Vehicles Journal 2012, 5, 8-13.
51. **Lin, Z.***, Dong, J., Liu, C., & Greene, D. (2012). Estimation of Energy Use by Plug-In Hybrid Electric Vehicles: Validating Gamma Distribution for Representing Random Daily Driving Distance *Transportation Research Record*, *2287*(1), 37-43. doi: http://dx.doi.org/10.3141/2287-05
52. Dong, Jing; **Lin, Zhenhong**. 2012. "Exploring the Paths to One Million Plug-in Electric Vehicles by 2015 Using MA3T Model." World Electr. Veh. J. 5, no. 4: 953-959.
53. **Lin, Z.*** (2012). Optimizing and Diversifying the Electric Range of Plug-in Hybrid Electric Vehicles for U.S. Drivers. *International Journal of Alternative Powertrains*, *1*(1), 108-194. doi: http://dx.doi.org/10.4271/2012-01-0817
54. Dong, J., & **Lin, Z.** (2012). Within-day recharge of plug-in hybrid electric vehicles: Energy impact of public charging infrastructure. *Transportation Research Part D: Transport and Environment*, *17*(5), 405-412. doi: http://dx.doi.org/10.1016/j.trd.2012.04.003
55. **Lin, Z.***, & Greene, D. L. (2011). Promoting the Market for Plug-In Hybrid and Battery Electric Vehicles: Role of Recharge Availability. *Transportation Research Record*, *2252*(1), 49-56. doi: http://dx.doi.org/10.3141/2252-07
56. **Lin, Z.***, & Greene, D. L. (2011). Assessing Energy Impact of Plug-In Hybrid Electric Vehicles: Significance of Daily Distance Variation over Time and Among Drivers. *Transportation Research Record*, *2252*(1), 99-106. doi: http://dx.doi.org/10.3141/2252-13
57. **Lin, Z.***, & Greene, D. (2011). Predicting Individual Fuel Economy. *SAE International Journal of Fuels and Lubricants*, *4*(1), 84-95. doi: http://dx.doi.org/10.4271/2011-01-0618
58. **Lin, Z.***, Ogden, J., Fan, Y., & Chen, C.-W. (2008). The Fuel-travel-back Approach to Hydrogen Station Siting. *International Journal of Hydrogen Energy*, *33*(12), 3096-3101. doi: http://dx.doi.org/10.1016/j.ijhydene.2008.01.040
59. **Lin, Z.***, Chen, C.-W., Ogden, J., & Fan, Y. (2008). The Least-cost Hydrogen for Southern California. *International Journal of Hydrogen Energy*, *33*(12), 3009-3014. doi: http://dx.doi.org/10.1016/j.ijhydene.2008.01.039
60. Sperling, D., Lin, Z., & Hamilton, P. (2005). Rural Vehicles in China: Appropriate Policy for Appropriate Technology. *Transport Policy*, *12*(2), 105-119. doi: http://dx.doi.org/10.1016/j.tranpol.2004.11.003

61. **Lin, Z.***, Zhou, M., & Ouyang, M. (2002). Improvement of Solenoid Controlled Valve for Electronic Diesel Injection System. *Automotive Engineering, 24*(3), 217-220. doi: http://dx.doi.org/10.3321/j.issn:1000-680X.2002.03.010
62. He, B., **Lin, Z**., & Ouyang, M. (2002). Simulation on Direct Hydrogen Fuel Cell Engine Performance. *Automotive Engineering, 24*(6), 494-498. doi: http://dx.doi.org/10.3321/j.issn:1000-680X.2002.06.008

Selected Conference Papers and Reports

1. **Lin, Zhenhong**, and Xie, Fei. 2018. Will Vehicle Automation Accelerate or Decelerate Electrification: Modeling Demand for Automated Electric Vehicles? 2018 Transportation Research Board Annual Meeting - Washington DC.
2. Kontou, Eleftheria, Holden, Jacob, Muratori, Matteo, Gonder, Jeffrey D, Stephens, Tom, Liu, Hao, Lu, Xiao-Yun, Shladover, Steven, Leiby, Paul, **Lin, Zhenhong**, Shabanpour, Ramin, and Mohammadian, Abolfazl. 2018. "National-Level Energy Impacts of Cooperative Adaptive Cruise Control (CACC) Systems". Automated Vehicles Symposium 2018, report # NREL/PO-5400-71880
3. Thomas S Stephens, Rebecca S Levinson, Aaron Brooker, Changzheng Liu, **Zhenhong Lin**, Alicia Birky, Eleftheria Kontou. 2017. Comparison of Vehicle Choice Models. Argonne National Laborator. ANL/ESD-17/19
4. F. Xie, **Z. Lin**, Y. Zhou, C. Rames, E. Wood and E. Kontou. 2018. "Will Advanced Public Charging Infrastructure Speed Up Electrification of Future Transportation?," 2018 21st International Conference on Intelligent Transportation Systems (ITSC), Maui, HI, pp. 1534-1539.
5. Ou, Shiqi, **Zhenhong Lin**, Zhixin Wu, Jihu Zheng, Renzhi Lyu, Steven Przesmitzki, and Xin He. 2017. A Study of China's *Explosive* Growth in the Plug-in Electric Vehicle Market. Oak Ridge National Laboratory. ORNL/TM-2016/750.
6. Podkaminer, Kara, Fei Xie, and **Zhenhong Lin**. 2017. Analyzing the impacts of a biogas-to-electricity purchase incentive on electric vehicle deployment with the MA3T vehicle choice model. Oak Ridge National Laboratory, ORNL/TM-2017/14.
7. Birky, Alicia, Laughlin, Michael, Tartaglia, Katie, Price, Rebecca, Lim, Brandon, and **Lin, Zhenhong**. 2017. "Electrification Beyond Light Duty: Class 2b-3 Commercial Vehicles". Oak Ridge National Laboratory, ORNL/TM-2017/744.
8. Tartaglia, Katie, Birky, Alicia, Laughlin, Michael, Price, Rebecca, and **Lin, Zhenhong**. 2017. "Transportation Electrification Beyond Light Duty: Technology and Market Assessment". Oak Ridge National Laboratory, ORNL/TM-2017/77-R1
9. Stephens, T. S., Gonder, Jeff, Chen, Yuche, **Lin, Z.**, Liu, C., and Gohlke, D. 2016. "Estimated Bounds and Important Factors for Fuel Use and Consumer Costs of Connected and Automated Vehicles". National Renewable Energy Lab, NREL/TP-5400-67216.
10. Lin, Z., Li, J.-M., & Dong, J. (2014). *Dynamic Wireless Power Transfer: Potential Impact on Plug-in Electric Vehicle Adoption*. SAE Technical Paper 2014-01-1965. https://doi.org/10.4271/2014-01-1965
11. Dong, J., Lin, Z., Liu, C., & Liu, Y. (2014). *Assessing Grid Impact of Battery Electric Vehicle Charging Demand Using GPS-Based Longitudinal Travel Survey Data.* SAE Technical Paper No. 2014-01–0343. https://doi.org/10.4271/2014-01-0343
12. Liu, C., **Lin, Z.**, Greene, D. L., Leiby, P. N., & Bowman, D. (2010). *Analyzing the Potential for Stationary Fuel Cells to Augment Hydrogen Availability in the Transition to Hydrogen Vehicles.* Paper presented at the 25th World Battery, Hybrid and Fuel Cell Electric Vehicle Symposium & Exhibition, Shenzhen, China, November 5-9, 2010.
13. **Lin, Z.**, & Greene, D. (2010). *Range Optimization for Fuel Cell Vehicles* (Hydrogen Program FY2010 Annual Progress Report No. III.21). Washington, DC: the U.S. Department of Energy.
14. **Lin, Z.**, & Greene, D. (2010). *A Plug-in Hybrid Consumer Choice Model with Detailed Market Segmentation.* Paper presented at the 89th Annual Meeting of Transportation Research Board, Washington, DC, January 10-14, 2010.
15. **Lin, Z.**, & Greene, D. (2010). *Who Will More Likely Buy PHEV: A Detailed Market Segmentation Analysis.* Paper presented at the 25th World Battery, Hybrid and Fuel Cell Electric Vehicle Symposium & Exhibition, Shenzhen, China, November 5-9, 2010.
16. **Lin, Z.**, & Greene, D. (2010). *Rethinking FCV/BEV Vehicle Range: A Consumer Value Trade-off Perspective.* Paper presented at the 25th World Battery, Hybrid and Fuel Cell Electric Vehicle Symposium & Exhibition, Shenzhen, China, November 5-9, 2010.

17. Greene, D. L., Leiby, P. N., **Lin, Z.**, & Bowman, D. (2010). *HyTrans Model: Analyzing the Potential for Stationary Fuel Cells to Augment Hydrogen Availability in the Transition to Hydrogen Vehicles* (Hydrogen Program FY2010 Annual Progress Report No. VII.4). Washington, DC: the U.S. Department of Energy.
18. Sikes, K. G., Gross, T. J., **Lin, Z.**, Sullivan, J. L., Cleary, T., & Ward, J. (2009). *The Plug-in Hybrid Electric Vehicle (PHEV) Market Introduction Study* (No. ORNL/TM-2009/019). Knoxville, TN: Oak Ridge National Laboratory.
19. **Lin, Z.**, Ogden, J., Fan, Y., & Sperling, D. (2006). *The Hydrogen Infrastructure Transition (HIT) Model and Its Application in Optimizing a 50-year Hydrogen Infrastructure for Urban Beijing.* Paper presented at the 85th Annual Meeting of Transport Research Board, Washington, DC, January 22-26, 2006.
20. Ogden, J., Yang, C., Johnson, N., Ni, J., & **Lin, Z.** (2005). *Technical and Economic Assessment of Transition Strategies toward Widespread Use of Hydrogen as an Energy Carrier* (No. UCD-ITS-RR-05-06). Davis, CA.: Institute of Transportation Studies, UC Davis.
21. Ogden, J., Johnson, N., Yang, C., Ni, J., **Lin, Z.**, Johnson, J., et al. (2005). *Conceptual Design of a Fossil Hydrogen Infrastructure with Capture and Sequestration of Carbon Dioxide: Case Study in Ohio.* Paper presented at the 4th Annual Conference on Carbon Capture and Sequestration, Alexandria, VA, May 2-5, 2005.
22. Johnson, N., Yang, C., Ni, J., Johnson, J., **Lin, Z.**, & Ogden, J. (2005). *Optimal Design of a Fossil Fuel-Based Hydrogen Infrastructure with Carbon Capture and Sequestration: Case Study in Ohio.* Paper presented at the 2005 Annual Meeting of National Hydrogen Association, Washington DC, March 29-31, 2005.
23. Sperling, D., **Lin, Z.**, & Hamilton, P. (2004). *Chinese Rural Vehicles: An Explanatory Analysis of Technology, Economics, Industrial Organization, Energy Use, Emissions, and Policy* (No. UCD-ITS-RR-04-01). Davis, CA: Institute of Transportation Studies, UC Davis.

Book Chapters

1. Ou S., **Z. Lin**, et al. (2020) China's Booming Plug-in Electric Vehicle Market—How Will It Continue?. In: Contestabile M., Tal G., Turrentine T. (eds) Who's Driving Electric Cars. Lecture Notes in Mobility. Springer, Cham
2. Thomas S. Stephens, Josh Auld, Yuche Chen, Jeffrey Gonder, Eleftheria Kontou, **Zhenhong Lin**, Fei Xie, Abolfazl (Kouros) Mohammadian, Ramin Shabanpour, David Gohlke. (2019) Assessing Energy Impacts of Connected and Automated Vehicles at the U.S. National Level—Preliminary Bounds and Proposed Methods. In: Meyer G., Beiker S. (eds) Road Vehicle Automation 5. Lecture Notes in Mobility. Springer, Cham
3. Sperling, D., & **Lin, Z.** (2004). Energy and Environmental Impacts of Rural Vehicles in China. In Chinese Academy of Engineering, Chinese Academy of Sciences, National Academy of Engineering & National Research Council (Eds.), *Urbanization, Energy, and Air Pollution in China: the Challenges Ahead* (pp. 95--106). Washington, DC: National Academies Press.

Invited Talks

1. "Consumers considerations – a focus on transportation energy." Coordinating Research Council "Fuels and Engines: The Road Ahead" Workshop. Virtual event. Oct 20, 2020
2. "Charging infrastructure optimization--power, location and number." Chengdu Forum of World Transport Convention, "Multimodal Transportation Planning for New Urban Infrastructure" session. Virtual, Oct 11, 2020