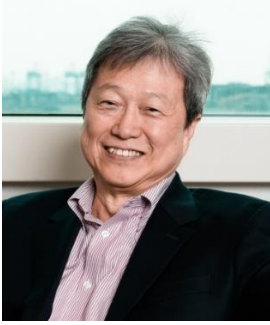


## Curriculum Vitae



**Name: CHOU Siaw Kiang (S.K. Chou)**

### ***Education***

1. 1977-80 Dip. D'Etudes Approfondies and Docteur-Ingenieur, Ecole Nationale Supérieure d'Arts et Metiers, Paris, France.
2. 1973-77 B.Eng., Mechanical Engineering, University of Singapore, Singapore.

### ***Employment History***

1. 1980 - Lecturer, Senior Lecturer, Associate Professor, Professor, Professor Adjunct, Department of Mechanical Engineering, NUS.
2. 1990-1992 Executive Director, Science Council of Singapore, and Executive Director, National Science and Technology Board.
3. 1992-2000 Director, Industry and Technology Relations Office, NUS.
4. 1995-2002 Managing Director, NUS Technology Holdings Pte Ltd.
5. 1998-2003 Head, Department of Mechanical Engineering, National University of Singapore.
6. 2003-2008 Vice-Dean, External & Industry Relations Office, Faculty of Engineering, National University of Singapore.
7. 2007-2009 and 2010-2017 Executive Director, Energy Studies Institute, NUS.

### ***Professional and Public Service (Current)***

1. Chairman, Technical Evaluation Panel, Grant for Energy Efficiency Technology (GREET), Singapore National Environment Agency and the Economic Development Board.
2. Fellow, American Society for Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE).
3. Honorary Fellow, Emeritus President, Institution of Engineers, Singapore (IES).
4. Fellow, ASEAN Academy of Engineering and Technology (AAET).
5. Fellow, Singapore Academy of Engineering (SAEng).
6. Fellow, Energy Institute (EI), UK.
7. Honorary Fellow, ASEAN Federation of Engineering Organisations (AFEO).
8. Chairman, Technical Committee, Cooling Energy Science and Technology Singapore (CoolestSG) Consortium, NUS.
9. Editor, Applied Energy Journal, Elsevier.
10. Member of Editorial Board of Advances in Applied Energy Journal, Elsevier.

### ***Selected Academic, Public and Professional Services***

1. 2016 to 2020. Member of the Board of Advisors of the ASEAN Committee on Science, Technology and Innovation
2. 2019. Member of the Energy Systems Technical Advisory Panel (ESTAP), Energy Market Authority, Singapore. To provide insights, perspectives and advice on the regulatory and technical aspects of the energy sector in Singapore.
3. 2016 to 2020. Member of the Tropical Data Centre Steering Committee, Infocomm Media Development Authority, Singapore. To set overall direction and review progress of the tropical data centre proof of concept.
4. 2014 and 2016 [Invited as External Academic Reviewer for 2021]. External Academic Advisor, School of Energy and Environment, City University of Hong Kong. To review plans and implementation of academic programmes and their progress.
5. 2015. Member of the Visiting Review Committee on the Energy Research Programme of the National Research Foundation of Singapore, Office of the Prime Minister.
6. 2014 to date. Member of the Technology Advisory Panel, Inland Revenue Authority of Singapore.
7. From 2015 to 2019. Member of the International Advisory Board, Future Energy Profile, Malardalen University, Sweden.
8. 2012 to 2016. Chairman of the Advisory Board of the ASEAN Plan of Action on Science and Technology.
9. 2009. Energy Advisor to Tianjin Eco-city Development, Sino-Singapore Tianjin Eco-City Investment and Development Pte Ltd.
10. 2006 to 2015. Member of the Board of Governors, Singapore Polytechnic.
11. 2003 to 2018. Chairman of the Advisory Committee of the School of Mechanical and Aeronautical Engineering, Singapore Polytechnic.
12. 1996 to 2014. Member of the International Advisory Board of the APEC Center for Technology Foresighting.
13. 1994 and 2001. Author of the ASEAN Plan of Action on Science & Technology, the ASEAN Committee on Science, Technology and Innovation.
14. 1981 to 2020. Served in various capacities in the ASEAN Committee on Science and Technology (COST, subsequently COSTI) and its subsidiary groups such as National COST Chair, Chairman of the ASEAN Sub-Committee on Infrastructure and Resources Development, and Editor of the ASEAN Journal on Science and Technology for Development.
15. 1994 and 2001. Author of the ASEAN Plan of Action on Science & Technology of the ASEAN Committee on Science, Technology and Innovation.

### ***Professional Experience***

- i. Energy systems modelling and simulation.
- ii. Energy analysis and modelling of buildings.
- iii. Special air-conditioning and dehumidification processes.
- iv. Condensation and humidity control.
- v. Heat pump drying and dryer design.
- vi. Renewable energy and heat recovery systems for heating, power and cooling.
- vii. S&T strategic planning
- viii. Energy policy and energy efficiency.

### ***Research Interests***

- i. Energy performance of buildings and thermal performance of building envelopes
- ii. Thermal energy conversion, heat pumps and air conditioning
- iii. Micro thrusters and propulsion for application in micro satellites
- iv. Combustion at the micro scale and MEMS for portable power
- v. Jet mixing flows for refrigeration and cooling, lift control and thrust augmentation
- vi. Energy efficiency, management and policy

### ***Selected Invited Lectures/Conference Presentations***

1. "Energy end-use trilemma - energy efficiency, thermal comfort and productivity - post-Covid-19". Invited Lecture, Asia Clean Energy Forum (ACEF) 2020, Asia Development Bank, 15-19 June 2020. Virtual conference.
2. "Digital Transformation in Smart Energy – Are We Ready For It?". Invited Talk, CAST Frontier Forum on Ecology & Energy: Challenges and Opportunities, China Association on Science and Technology, 12-13 June 2018, Beijing, China.
3. "Thermal Performance of Building Envelopes for Improved Energy Efficiency". Invited Keynote, Applied Energy Symposium and Forum 2018: Low carbon cities and urban energy systems, Shanghai, June 5-7, 2018.
4. "Sustainable City – People, Process and Policy". Invited Keynote, UN Environment 2018 International Student Conference on Environment and Sustainability, Tongji University, Shanghai, 5 June 2018.
5. "Digital Transformation: Global Trends and Development in Smart Energy". Invited Lecture, 2018 Technical Advisory Committee-Energy and Environmental Technology Meeting, ITRI, Taipei, 17 May 2018, Taipei.
6. "East Asia Energy Policy: Research & Outlook". Invited Keynote, 9th International Conference on Applied Energy (ICAE 2017) Cardiff, 21-25 August 2017
7. "Enhanced ETTV/RETV formulation for energy efficient building envelopes - a collaboration project of BCA, NUS, and Technoform". International Green Building Conference, Building and Construction Authority, Singapore, 2016, September 2016.
8. "System Modelling for Energy and Environmental Research". Invited presentation, The 2<sup>nd</sup> Workshop on Frontier Modeling of Energy & Environment (FMEE), Energy & Resource Systems Engineering Chapter, Systems Engineering Society of China, Nanjing University of Aeronautics and Astronautics (NUAA), Nanjing, May 2016.
9. "Sustainable high performance façades for the tropics". Invited Lecture, International Green Building Conference, Building and Construction Authority, Singapore, Sept 2014.
10. "Energy efficient and environmentally friendly transportation". Invited Lecture, Applied Energy Expert Forum, Kunming, May 2014.
11. "Non-traditional security challenges – energy security". Invited Lecture, MFA Diplomatic Academy, Foreign Service Advanced Programme, Singapore, May 2014.
12. "Myanmar Energy Development – an ASEAN Perspective". Invited Lecture, Joint Conference on Energy Integration in Myanmar – A View from Abroad, Energy Research Institute (ERI), Chulalongkorn University and Todai Policy Alternative Research Institute (PARI), The University of Tokyo, Bangkok, June 2013.
13. "Overview of ASEAN's energy needs and challenges". Invited Lecture, Energy Policy Roundtable 2012, Todai Policy Alternatives Research Institute, The University of Tokyo, Tokyo, April 2012.
14. "Singapore's national strategy for low-emissions transport development". Invited Keynote, 2<sup>nd</sup> Annual Conference of Asian-European Energy Policy Research Network: Transition towards Low Carbon Transport: Asian and European Perspectives, Beijing University of Technology, Beijing, November 2013.
15. "Singapore's pathway to a low carbon future". Invited Plenary Lecture, 4<sup>th</sup> International Conference on Sustainable Energy and Environment (SEE 2012) – A Paradigm Shift to a Low Carbon Society, Bangkok, February 2012.
16. "Teaching energy efficiency – context, concepts and challenges". National Energy Efficiency Conference, National Energy Agency, Singapore, September 2012.
17. "Intellectual property and climate change". Regional Conference on Intellectual Property and Economic Development: Challenges and Opportunities, World Intellectual Property Organization (WIPO) and the ASEAN Studies Centre, Institute of Southeast Asian Studies (ISEAS), Singapore, February 2011.

### **International Refereed Journal Publications**

1. He, Z., Hong, T., & Chou, S.K. (2020). A framework for estimating the energy-saving potential of occupant behaviour improvement. *Applied Energy*, 287, 1 April 2021. doi: [/10.1016/j.apenergy.2021.116591](https://doi.org/10.1016/j.apenergy.2021.116591).
2. Riaz, F., Lee, P.S., & Chou, S.K. (2020). Thermal modelling and optimization of low-grade waste heat driven ejector refrigeration system incorporating a direct ejector model. *Applied Thermal Engineering*, 167, 25 February 2020. doi: 10.1016/j.applthermaleng.2019.114710.
3. Yan, J., Sun, F., Chou, S.K., Desideri, U., Li, H., Campana, P.E., & Xiong, R. (2018). Transformative innovations for a sustainable future, *Applied Energy*, 231, pp. 1383-1388. doi: 10.1016/j.apenergy.2017.08.155
4. Chou, S.K., Costanza, R., Earis, P., Hubacek, K., Li, B.L., Lu, Y., Span, R., Wang, H., Wu, J., Wu, Y., & Yan, J.J. (2018). Priority areas at the frontiers of ecology and energy, *Ecosystem Health and Sustainability*, Vol. 4, 2018, 243-246. doi: [10.1080/20964129.2018.1538665](https://doi.org/10.1080/20964129.2018.1538665)
5. Chua, K. J., Chou, S. K., & Islam, M. R. (2018). On the experimental study of a hybrid dehumidifier comprising membrane and composite desiccants. *Applied Energy*, 220, 934-943. doi:[10.1016/j.apenergy.2017.12.116](https://doi.org/10.1016/j.apenergy.2017.12.116)
6. Ranjan, R., Karthikeyan, K., Riaz, F., & Chou, S.K. (2018). Cold gas propulsion microthruster for feed gas utilization in micro satellites. *Applied Energy*, 220, 921-933. doi: [10.1016/j.apenergy.2018.03.040](https://doi.org/10.1016/j.apenergy.2018.03.040)
7. Yan, J., Sun, F., Chou, S. K., Desideri, U., Li, H., Campana, P. E., & Xiong, R. (2017). Transformative Innovations for a Sustainable Future. *Applied Energy*, 204, 867-872. doi:10.1016/j.apenergy.2017.09.010
8. Yan, J., Chou, S. K., Chen, B., Sun, F., Jia, H., & Yang, J. (2017). Clean, affordable and reliable energy systems for low carbon city transition. *Applied Energy*, 194, 305-309. doi:[10.1016/j.apenergy.2017.03.066](https://doi.org/10.1016/j.apenergy.2017.03.066)
9. Cui, X., Mohan, B., Islam, M. R., Chou, S. K., & Chua, K. J. (2017). Energy performance evaluation and application of an air treatment system for conditioning building spaces in tropics. *APPLIED ENERGY*, 204, 1500-1512. doi:[10.1016/j.apenergy.2017.03.067](https://doi.org/10.1016/j.apenergy.2017.03.067)
10. Yan, J., Sun, F., Chou, S. K., Desideri, U., Li, H., Campana, P. E., & Xiong, R. (2017). Transformative innovations for a sustainable future. *Applied Energy*. doi:[10.1016/j.apenergy.2017.08.155](https://doi.org/10.1016/j.apenergy.2017.08.155)
11. Yan, J., Shamim, T., Chou, S. K., Desideri, U., & Li, H. (2017). Clean, efficient and affordable energy for a sustainable future. *APPLIED ENERGY*, 185, 953-962. doi:[10.1016/j.apenergy.2016.06.005](https://doi.org/10.1016/j.apenergy.2016.06.005)
12. Tay, K. L., Yang, W., Li, J., Zhou, D., Yu, W., Zhao, F., Chou, S.K., & Mohan, B. (2017). Numerical investigation on the combustion and emissions of a kerosene-diesel fueled compression ignition engine assisted by ammonia fumigation. *APPLIED ENERGY*, 204, 1476-1488. doi:[10.1016/j.apenergy.2017.03.100](https://doi.org/10.1016/j.apenergy.2017.03.100)
13. Yan, J., Desideri, U., Chou, S. K., & Li, H. (2016). Energy solutions for a sustainable world. *INTERNATIONAL JOURNAL OF GREEN ENERGY*, 13(8), 757-758. doi:[10.1080/15435075.2016.1168648](https://doi.org/10.1080/15435075.2016.1168648)
14. Yan, J., Chou, S. -K., Desideri, U., & Lee, D. -J. (2016). Transition of clean energy systems and technologies towards a sustainable future (Part II). *APPLIED ENERGY*, 162, 1109-1113. doi:[10.1016/j.apenergy.2015.10.063](https://doi.org/10.1016/j.apenergy.2015.10.063)
15. Zhao, F., Yang, W., Tan, W. W., Yu, W., Yang, J., & Chou, S. K. (2016). Power management of vessel propulsion system for thrust efficiency and emissions mitigation. *APPLIED ENERGY*, 161, 124-132. doi:[10.1016/j.apenergy.2015.10.022](https://doi.org/10.1016/j.apenergy.2015.10.022)
16. Yan, J., Chou, S. -K., Desideri, U., & Lee, D. -J. (2015). Transition of clean energy systems and technologies towards a sustainable future (Part I). *APPLIED ENERGY*, 160, 619-622. doi:[10.1016/j.apenergy.2015.10.062](https://doi.org/10.1016/j.apenergy.2015.10.062)
17. Li, J., Yang, W. M., An, H., & Chou, S. K. (2015). Modeling on blend gasoline/diesel fuel combustion in a direct injection diesel engine. *APPLIED ENERGY*, 160, 777-783. doi:[10.1016/j.apenergy.2014.08.105](https://doi.org/10.1016/j.apenergy.2014.08.105)
18. Lee, D. -J., Yan, J., Chou, S. -K., & Desideri, U. (2015). Clean, efficient, affordable and reliable energy for a sustainable future Preface. *ENERGY CONVERSION AND MANAGEMENT*, 102, 1-3. doi:[10.1016/j.enconman.2015.05.059](https://doi.org/10.1016/j.enconman.2015.05.059)

19. Yan, J., Chou, S. K., & Desideri, U. (2015). The Editor's Best Reviewer awards for Applied Energy, 2014. *Applied Energy*, 150, A1. doi:[10.1016/j.apenergy.2015.05.009](https://doi.org/10.1016/j.apenergy.2015.05.009)
20. Vedharaj, S., Vallinayagam, R., Yang, W. M., Chou, S. K., Chua, K. J. E., & Lee, P. S. (2015). Performance Emission and Economic Analysis of Preheated CNSL Biodiesel as an Alternate Fuel for a Diesel Engine. *INTERNATIONAL JOURNAL OF GREEN ENERGY*, 12(4), 359-367. doi:[10.1080/15435075.2013.841162](https://doi.org/10.1080/15435075.2013.841162)
21. Yan, J., Chou, S. K., Dahlquist, E., & Li, H. (2015). Innovative Research For Sustainable Energy Systems. *INTERNATIONAL JOURNAL OF GREEN ENERGY*, 12(3), 191. doi:[10.1080/15435075.2014.958042](https://doi.org/10.1080/15435075.2014.958042)
22. Nian, V., & Chou, S. K. (2014). The state of nuclear power two years after Fukushima - The ASEAN perspective. *APPLIED ENERGY*, 136, 838-848. doi:[10.1016/j.apenergy.2014.04.030](https://doi.org/10.1016/j.apenergy.2014.04.030)
23. Yan, J., Chou, S. K., Desideri, U., & Xia, X. (2014). Innovative and sustainable solutions of clean energy technologies and policies (Part II). *APPLIED ENERGY*, 136, 756-758. doi:[10.1016/j.apenergy.2014.09.078](https://doi.org/10.1016/j.apenergy.2014.09.078)
24. Vedharaj, S., Vallinayagam, R., Yang, W. M., Chou, S. K., & Lee, P. S. (2014). Effect of adding 1,4-Dioxane with kapok biodiesel on the characteristics of a diesel engine. *APPLIED ENERGY*, 136, 1166-1173. doi:[10.1016/j.apenergy.2014.04.012](https://doi.org/10.1016/j.apenergy.2014.04.012)
25. Mohan, B., Yang, W., Yu, W., Tay, K. L., & Chou, S. K. (2015). Numerical investigation on the effects of injection rate shaping on combustion and emission characteristics of biodiesel fueled CI engine. *APPLIED ENERGY*, 160, 737-745. doi:[10.1016/j.apenergy.2015.08.034](https://doi.org/10.1016/j.apenergy.2015.08.034)
26. Yan, J., Chou, S. K., Desideri, U., & Hunt, S. (2014). The Editor's Best Reviewer awards for Applied Energy, 2013. *Applied Energy*, 130. doi:[10.1016/j.apenergy.2014.07.016](https://doi.org/10.1016/j.apenergy.2014.07.016)
27. Vallinayagam, R., Vedharaj, S., Yang, W. M., Lee, P. S., Chua, K. J. E., & Chou, S. K. (2014). Pine oil-biodiesel blends: A double biofuel strategy to completely eliminate the use of diesel in a diesel engine. *APPLIED ENERGY*, 130, 466-473. doi:[10.1016/j.apenergy.2013.11.025](https://doi.org/10.1016/j.apenergy.2013.11.025)
28. Mohan, B., Yang, W., Raman, V., Sivasankaralingam, V., & Chou, S. K. (2014). Optimization of biodiesel fueled engine to meet emission standards through varying nozzle opening pressure and static injection timing. *APPLIED ENERGY*, 130, 450-457. doi:[10.1016/j.apenergy.2014.02.033](https://doi.org/10.1016/j.apenergy.2014.02.033)
29. Yan, J., Chou, S. K., Desideri, U., & Xia, X. (2014). Innovative and sustainable solutions of clean energy technologies and policies (Part I). *APPLIED ENERGY*, 130, 447-449. doi:[10.1016/j.apenergy.2014.05.052](https://doi.org/10.1016/j.apenergy.2014.05.052)
30. An, H., Yang, W., Li, J., Maghbouli, A., Chua, K. J., & Chou, S. K. (2014). A numerical modeling on the emission characteristics of a diesel engine fueled by diesel and biodiesel blend fuels. *APPLIED ENERGY*, 130, 458-465. doi:[10.1016/j.apenergy.2014.01.004](https://doi.org/10.1016/j.apenergy.2014.01.004)
31. Vallinayagam, R., Vedharaj, S., Yang, W. M., Saravanan, C. G., Lee, P. S., Chua, K. E., & Chou, S. K. (2014). Impact of pine oil biofuel fumigation on gaseous emissions from a diesel engine. *FUEL PROCESSING TECHNOLOGY*, 124, 44-53. doi:[10.1016/j.fuproc.2014.02.012](https://doi.org/10.1016/j.fuproc.2014.02.012)
32. Fahd, M. E. A., Lee, P. -S., Chou, S. K., Yang, W., & Yap, C. (2014). Experimental study and empirical correlation development of fuel properties of waste cooking palm biodiesel and its diesel blends at elevated temperatures. *RENEWABLE ENERGY*, 68, 282-288. doi:[10.1016/j.renene.2014.02.007](https://doi.org/10.1016/j.renene.2014.02.007)
33. Nian, V., Chou, S. K., Su, B., & Baully, J. (2014). Life cycle analysis on carbon emissions from power generation - The nuclear energy example. *APPLIED ENERGY*, 118, 68-82. doi:[10.1016/j.apenergy.2013.12.015](https://doi.org/10.1016/j.apenergy.2013.12.015)
34. An, H., Yang, W. M., Maghbouli, A., Li, J., Chou, S. K., Chua, K. J., . . . Li, L. (2014). Numerical investigation on the combustion and emission characteristics of a hydrogen assisted biodiesel combustion in a diesel engine. *FUEL*, 120, 186-194. doi:[10.1016/j.fuel.2013.12.021](https://doi.org/10.1016/j.fuel.2013.12.021)
35. Li, J., Yang, W. M., An, H., Maghbouli, A., & Chou, S. K. (2014). Effects of piston bowl geometry on combustion and emission characteristics of biodiesel fueled diesel engines. *FUEL*, 120, 66-73. doi:[10.1016/j.fuel.2013.12.005](https://doi.org/10.1016/j.fuel.2013.12.005)
36. Vedharaj, S., Vallinayagam, R., Yang, W. M., Saravanan, C. G., Chou, S. K., Chua, K. J. E., & Lee, P. S. (2014). Reduction of harmful emissions from a diesel engine fueled by kapok methyl ester using combined coating and SNCR technology. *ENERGY CONVERSION AND MANAGEMENT*, 79, 581-589. doi:[10.1016/j.enconman.2013.12.056](https://doi.org/10.1016/j.enconman.2013.12.056)

37. Vallinayagam, R., Vedharaj, S., Yang, W. M., Raghavan, V., Saravanan, C. G., Lee, P. S., . . . Chou, S. K. (2014). Investigation of evaporation and engine characteristics of pine oil biofuel fumigated in the inlet manifold of a diesel engine. *APPLIED ENERGY*, *115*, 514-524. doi:[10.1016/j.apenergy.2013.11.004](https://doi.org/10.1016/j.apenergy.2013.11.004)
38. Vedharaj, S., Vallinayagam, R., Yang, W. M., Chou, S. K., Chua, K. J. E., & Lee, P. S. (2014). Experimental and finite element analysis of a coated diesel engine fueled by cashew nut shell liquid biodiesel. *EXPERIMENTAL THERMAL AND FLUID SCIENCE*, *53*, 259-268. doi:[10.1016/j.expthermflusci.2013.12.018](https://doi.org/10.1016/j.expthermflusci.2013.12.018)
39. Jin, L. W., Lee, P. S., Kong, X. X., Fan, Y., & Chou, S. K. (2014). Ultra-thin minichannel LCP for EV battery thermal management. *APPLIED ENERGY*, *113*, 1786-1794. doi:[10.1016/j.apenergy.2013.07.013](https://doi.org/10.1016/j.apenergy.2013.07.013)
40. Vallinayagam, R., Vedharaj, S., Yang, W. M., Saravanan, C. G., Lee, P. S., Chua, K. J. E., & Chou, S. K. (2014). Impact of ignition promoting additives on the characteristics of a diesel engine powered by pine oil-diesel blend. *FUEL*, *117*, 278-285. doi:[10.1016/j.fuel.2013.09.076](https://doi.org/10.1016/j.fuel.2013.09.076)
41. Mohan, B., Yang, W., & Chou, S. K. (2014). Development of an accurate cavitation coupled spray model for diesel engine simulation. *ENERGY CONVERSION AND MANAGEMENT*, *77*, 269-277. doi:[10.1016/j.enconman.2013.09.035](https://doi.org/10.1016/j.enconman.2013.09.035)
42. Mohan, B., Yang, W., & Chou, S. (2014). CAVITATION IN INJECTOR NOZZLE HOLES - A PARAMETRIC STUDY. *ENGINEERING APPLICATIONS OF COMPUTATIONAL FLUID MECHANICS*, *8*(1), 70-81. doi:[10.1080/19942060.2014.11015498](https://doi.org/10.1080/19942060.2014.11015498)
43. Yan, J., Chou, S. K., Desideri, U., Tu, S. T., & Jin, H. G. (2013). Research, development and innovations for sustainable future energy systems. *APPLIED ENERGY*, *112*, 393-395. doi:[10.1016/j.apenergy.2013.08.019](https://doi.org/10.1016/j.apenergy.2013.08.019)
44. Yan, J., Chou, S. K., & Dahlquist, E. (2013). Recent progress in sustainable energy systems. *INTERNATIONAL JOURNAL OF ENERGY RESEARCH*, *37*(15), 1937-1938. doi:[10.1002/er.3107](https://doi.org/10.1002/er.3107)
45. An, H., Yang, W. M., Maghbouli, A., Li, J., Chou, S. K., & Chua, K. J. (2013). Performance, combustion and emission characteristics of biodiesel derived from waste cooking oils. *APPLIED ENERGY*, *112*, 493-499. doi:[10.1016/j.apenergy.2012.12.044](https://doi.org/10.1016/j.apenergy.2012.12.044)
46. Yang, W. M., An, H., Chou, S. K., Chua, K. J., Mohan, B., Sivasankaralingam, V., . . . Li, J. (2013). Impact of emulsion fuel with nano-organic additives on the performance of diesel engine. *APPLIED ENERGY*, *112*, 1206-1212. doi:[10.1016/j.apenergy.2013.02.027](https://doi.org/10.1016/j.apenergy.2013.02.027)
47. Vallinayagam, R., Vedharaj, S., Yang, W. M., Saravanan, C. G., Lee, P. S., Chua, K. J. E., & Chou, S. K. (2013). Emission reduction from a diesel engine fueled by pine oil biofuel using SCR and catalytic converter. *ATMOSPHERIC ENVIRONMENT*, *80*, 190-197. doi:[10.1016/j.atmosenv.2013.07.069](https://doi.org/10.1016/j.atmosenv.2013.07.069)
48. Maghbouli, A., Yang, W., An, H., Li, J., Chou, S. K., & Chua, K. J. (2013). An advanced combustion model coupled with detailed chemical reaction mechanism for D.I diesel engine simulation. *APPLIED ENERGY*, *111*, 758-770. doi:[10.1016/j.apenergy.2013.05.031](https://doi.org/10.1016/j.apenergy.2013.05.031)
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51. Mohan, B., Yang, W., & Chou, S. K. (2013). Fuel injection strategies for performance improvement and emissions reduction in compression ignition engines-A review. *RENEWABLE & SUSTAINABLE ENERGY REVIEWS*, *28*, 664-676. doi:[10.1016/j.rser.2013.08.051](https://doi.org/10.1016/j.rser.2013.08.051)
52. Balasubramanian, K., Lee, P. S., Teo, C. J., & Chou, S. K. (2013). Flow boiling heat transfer and pressure drop in stepped fin microchannels. *INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER*, *67*, 234-252. doi:[10.1016/j.ijheatmasstransfer.2013.08.023](https://doi.org/10.1016/j.ijheatmasstransfer.2013.08.023)
53. Balasubramanian, K., Jagirdar, M., Lee, P. S., Teo, C. J., & Chou, S. K. (2013). Experimental investigation of flow boiling heat transfer and instabilities in straight microchannels. *INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER*, *66*, 655-671. doi:[10.1016/j.ijheatmasstransfer.2013.07.050](https://doi.org/10.1016/j.ijheatmasstransfer.2013.07.050)

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