CURRICULUM VITAE

20th September, 2020

I. PERSONAL PARTICULARS

Full name : HOANG ANH TUAN

Title : Assoc.Pro, .PhD., MSc., Eng.,

ID Card No. : 031080006010

Date of birth : October 13rd, 1980

Place of birth : Hai Phong city

Nationality : Vietnamese

Marital status : Married

Gender : Male

Diploma : PhD of Design, Fabrication, Operation Marine Engine and Dynamic System

Occupation : Lecturer at Ho Chi Minh City University of Transport (UT-HCMC), Vietnam

Lecturer at Ho Chi Minh city University of Technology (HUTECH), Vietnam

Position : (Former) Vice Dean of Mechanical Engineering Faculty, UT-HCMC

(Former) Head, Department of Science and Technology, UT-HCMC

(Now) Vice President, Ho Chi Minh city University of Technology (HUTECH), Vietnam

Languages : Vietnamese (Mother tongue), English (Advanced)

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II. EDUCATION AND TRAINING

Nov.2019	Got Assoc. Professor
Mar. 2016	Got PH.D degree

Nov. 2012 – Dec. 2015	Title: Ph.D of Design, Fabrication Marine Engine and Dynamic System Vietnam Maritime University
Dec. 2010	Teaching Skill Certificate Hanoi National University, Vietnam
Oct. 2006 – Oct. 2009	Title: Master of Design, Fabrication Marine Engine and Dynamic System Vietnam Maritime University
Oct. 2005	Lecturer of Vietnam Maritime University after graduating with **Excellent** level
2000-2005	Student: Engineer of Design, Fabrication Marine Engine and Dynamic System, Vietnam Maritime University

II. AWARDS

2001	**Vietnam Maritime University**: Award of excellent study result with scholarship
2001	**Australia:** Award of excellent study result with scholarship
2001	**Vietnamese Register**: Award of excellent study result with scholarship
2002	**Vietnam Maritime University:** Award of excellent study result with scholarship
2002	**Toyota, Japan:** Award of excellent study result with scholarship
2002	**Vietnamese Register**: Award of excellent study result with scholarship
2003	**Vietnam Maritime University**: Award of excellent study result with scholarship
2003	**Vietnam Maritime University**: Award of the best student with scholarship
2003	**Vietnamese Register**: Award of excellent study result with scholarship
2004	**Vietnam Maritime University:** Award of excellent study result with scholarship
2004	**Vietnamese Register:** Award of excellent study result with scholarship
2016	**Minister of Transport:** Award for excellent scientific research achievements for the period 2010-2015

III. EMPLOYMENT HISTORY

5/2019	**Managing Editor,** Journal of Transportation Technology and Science
12/2018	**(Co-)Editor-in-Chief of** International Journal of e-Navigation and Maritime Economy, **ESCI**.
9/2018	**Associate Editor,** Journal of Mechanical Engineering Research and Developments, **Scopus**
8/2018	**Member of Editorial Board of** Nature Environment and Pollution Technology
8/2018	**Main Handling Editor of** International Journal of Renewable Energy Developments
6/2018	**Member of Editorial Board of** Energy Sources, Part A: Recovery, Utilization, and Environmental Effects, **SCI**, **Taylor&Francis** Publishing House
7/2020 - now	**Vice President**, Ho Chi Minh city University of Technology (HUTECH), Vietnam **Lecturer:** Ho Chi Minh city University of Technology (HUTECH), Vietnam **Visiting Lecturer:** International Education & Cooperation Centre, Ho Chi Minh City University of Transport, Vietnam.
4/2016 – 6/2020	**(Former) Head**, Department of Science and Technology of UT-HCMC **(Former) Vice Dean**, Faculty of Mechanical Engineering of UT-HCMC **Lecturer**: Ho Chi Minh City University of Transport (UT-HCMC) **Head**, Applied scientific research group of Dynamic Engineering **Lecturer and Training Program Manager at** International Education & Cooperation Centre, Ho Chi Minh City University of Transport, Vietnam. **Visiting Lecturer:** Institute of International Education, Ho Chi Minh City University of Technology (HUTECH) **Subjects:** Thermal Technology, Material Mechanics, Material Fabracation Technology, Theoretical Mechanics, Descriptive Geometry, Strength of Material, Internal Combustion Engines. **Reviewer** of Journal of Transportation Technology and Science (Ho Chi Minh City University of Transport in Vietnam) **Reviewer** of Biofuel Journal, Taylor and Francis, **Scopus** journal **Reviewer** of Journal of Mechanical Engineering & Sciences (JMES), **ESCI/Scopus** journal

	Reviewer of International Journal of Automotive and Mechanical Engineering (IJAME), **ISI/Scopus** journal **Reviewer** of International Journal of Heat and Technology (IJHT), **ESCI/Scopus** journal **Reviewer** of Bioresources, **SCI** journal **Reviewer** of Energy Sources, Part A: Recovery, Utilization, and Environmental Effects, **SCI** journal **Reviewer** of Journal of Marine Engineering & Technology, **SCIE** journal **Reviewer** of Materials Science & Engineering A, **SCI** journal **Reviewer** of Renewable Substanable Energy Review, **SCI** journal **Reviewer** of Waste and Biomass Valorization, **SCIE** journal **Reviewer** of International Journal of e-Navigation and Maritime Economy, **ESCI** journal **Reviewer** of Progress in Energy and Combustion Science, **SCI** journal **Reviewer** of Energy Conversion and Management, **SCI** journal **Reviewer** of Applied Energy, **SCI** journal
2005 – 3/2016	**Lecturer**: Vietnam Maritime University **Subjects:** Thermal Technology, Material Mechanics, Material Fabracation Technology, Theoretical Mechanics, Descriptive Geometry

V. PAPER PUBLICATIONS

1. **Tuan Hoang Anh,** Nho Luong Cong, Tuan Le Anh, "Several methods of biofuel heating are used in marine engines", *Journal of Marine Science and Technology*, 4/2014.
2. **Tuan Hoang Anh**, Nho Luong Cong, Tuan Le Anh: Effects of the Heating Temperature of Pure Coconut Oil on Breakup Mechanism of Fuel Sprays, Ho Chi Minh city, Vietnam, ISBN 978-604-63-1599-5, 10/2015.
3. **Tuan Hoang Anh**, Nho Luong Cong, Nam Nguyen Duong: "Investigate the selection of steels that work at high temperatures in the marine industry", *Journal of Transport*, 4/2016.
4. **Hoang Anh Tuan**, Le Van Vang, "Impact of Heating Temperature on Primary and Secondary Breakup of Pure Vegetable Oil Spray", *International Journal of Scientific & Technology Research*, 12/2016.
5. Cao Dao Nam, **Hoang Anh Tuan**, "Impact of Coconut Oil Acid Component on Fuel System Materials Durability and Corrosion in Diesel Engines", *11th South East Asian Technical University Consortium (SEATUC) Symposium*, 3/2017.
6. Nguyen Danh Chan, **Hoang Anh Tuan**, "Improve the properties of pure biodiesel to direct use for small marine engines", *11th South East Asian Technical University Consortium (SEATUC) Symposium*, 3/2017.

7. **Hoang Anh Tuan**, "Establishing the influence of temperature on biodiesel thermal parameters", *11th South East Asian Technical University Consortium (SEATUC) Symposium*, 3/2017.

8. **Hoang Anh Tuan**, "Using pure vegetable oils for marine engine in vietnam: potential and applicability", *11th South East Asian Technical University Consortium (SEATUC) Symposium*, 3/2017.

9. Le Van Vang, **Hoang Anh Tuan**, "Calculation and design the exhaust gas energy-utilizing-heat exchanger in order to heat biofuels and reduce emission", *11th South East Asian Technical University Consortium (SEATUC) Symposium*, 3/2017.

10. Pham Xuan Duong, **Hoang Anh Tuan**, "A review of exhaust gas heat recovery from marine diesel engine for improving the emission and saving energy", *11th South East Asian Technical University Consortium (SEATUC) Symposium*, 3/2017.

11. Nguyen Lan Huong, **Hoang Anh Tuan**, "Comparative analysis of emission and performance characteristic using dimethyl ether (dme) and diesel oil fueled in diesel engine", *11th South East Asian Technical University Consortium (SEATUC) Symposium*, 3/2017.

12. **Hoang Anh Tuan**, Chu Xuan Nam, Tran Van Trung, "The environmental pollution in Vietnam: Source, Impact and Remedes", *International Journal of Scientific & Technology Research*, 2/2017.

13. **Hoang, T. A**., & Van Le, V. (2017). The Performance of a Diesel Engine Fueled with Diesel Oil, Biodiesel and Preheated Coconut Oil. *International Journal of Renewable Energy Development*, *6*(1). **(Scopus)**

14. X. D. Pham, **A. T. Hoang**, D. N. Nguyen, and V. V Le, "Effect of Factors on the Hydrogen Composition in the Carburizing Process," *International Journal of Applied Engineering Research*, vol. 12, no. 19, pp. 8238–8244, 2017. **(Scopus)**

15. **Anh Tuan Hoang**, "A report of the oil spill recovery and treatment technologies to reduce the marine environment pollution," *International Journal of e-Navigation of Maritime Economy*, vol. 9, pp. 35–49, 2018. **(Scopus)**

16. **A. T. Hoang**, "Prediction of the density and viscosity of biodiesel and the influence of biodiesel properties on a diesel engine fuel supply system," *Journal of Marine Engineering & Technology*, pp. 1–13, 2018, doi:10.1080/20464177.2018.1532734. **(Scopus)**

17. **Hoang, A. T**., Bui, X. L., & Pham, X. D. (2018). "A novel investigation of oil and heavy metal adsorption capacity from as-fabricated adsorbent based on agricultural by-product and porous polymer". *Energy Sources, Part A: Recovery, Utilization, and Environmental Effects*, *40*(8), 929-939. **(SCIE)**

18. **Hoang, A. T**., Le, V. V., Al-Tawaha, A. R. M. S., Nguyen, D. N., Al-Tawaha, A. R. M. S., Noor, M. M., & Pham, V. V. (2018). An absorption capacity investigation of new absorbent based on polyurethane foams and rice straw for oil spill cleanup. *Petroleum Science and Technology*, *36*(5), 361-370. **(SCIE)**

19. **Hoang, A. T**. (2018). Waste heat recovery from diesel engines based on Organic Rankine Cycle. *Applied Energy*, *231*, 138-166. **(SCIE)**

20. Hoang, P. H., **Hoang, A. T**., Chung, N. H., Dien, L. Q., Nguyen, X. P., & Pham, X. D. (2018). The efficient lignocellulose-based sorbent for oil spill treatment from polyurethane and agricultural residue of Vietnam. *Energy Sources, Part A: Recovery, Utilization, and Environmental Effects*, *40*(3), 312-319. **(SCIE)**

21. **A. T. Hoang** and V. V. Pham, "A review on fuels used for marine diesel engines," *Journal of Mechanical Engineering Research & Developments (JMERD)*, vol. 41, no. 4, pp. 22–32, 2018. **(Scopus)**
22. M. T. Pham, **A. T. Hoang**, A. T. Le, A. R. M. S. Al-Tawaha, V. H. Dong, and V. V. Le, "Measurement and prediction of the density and viscosity of biodiesel blends," *International Journal of Technology*, vol. 9, no. 5, pp. 1015–1026, 2018. **(Scopus)**
23. **A. T. Hoang**, Q. V Tran, and X. D. Pham, "Performance and emission characteristics of popular 4-stroke motorcycle engine in vietnam fuelled with biogasoline compared with fossil gasoline," *International Journal of Mechanical and Mechatronics Engineering*, vol. 18, no. 2, pp. 97–103, 2018. **(Scopus)**
24. **A. T. Hoang** and M. T. Pham, "Influences of heating temperatures on physical properties, spray characteristics of bio-oils and fuel supply system of a conventional diesel engine," *International Journal on Advanced Science, Engineering and Information Technology*, vol. 8, no. 5, pp. 2231–2240, 2018. **(Scopus)**
25. D. N. Nguyen, **A. T. Hoang**, X. D. Pham, M. T. Sai, M. Q. Chau, and V. V. Pham, "Effect of Sn component on properties and microstructure Cu-Ni-Sn alloys," *Jurnal Teknologi*, vol. 80, no. 6, pp. 43–51, 2018. **(Scopus)**
26. **A. T. Hoang**, D. N. Nguyen, and V. V. Pham, "Heat Treatment Furnace for Improving the Weld Mechanical Properties: Design and Fabrication," *International Journal of Mechanical and Mechatronics Engineering*, vol. 9, no. 6, pp. 496–506, 2018. **(Scopus)**
27. T. N. Le, M. K. Pham, **A. T. Hoang**, and D. N. Nguyen, "Microstructures and elements distribution in the transition zone of carbon steel and stainless steel welds," *Journal of Mechanical Engineering Research & Developments (JMERD)*, vol. 41, no. 3, pp. 27–31, 2018. **(Scopus)**
28. X. D. Pham, **A. T. Hoang**, and D. N. Nguyen, "A Study on the Effect of the Change of Tempering Temperature on the Microstructure Transformation of Cu-Ni-Sn Alloy," *International Journal of Mechanical & Mechatronics Engineering*, vol. 18, no. 4, pp. 27–34, 2018. **(Scopus)**
29. M. K. Pham, D. N. Nguyen, and **A. T. Hoang**, "Influence of Vanadium Content on the Microstructure and Mechanical Properties of High-Manganese Steel," *International Journal of Mechanical & Mechatronics Engineering*, vol. 18, no. 2, pp. 141–147, 2018. **(Scopus)**
30. T. N. Le, M. K. Pham, **A. T. Hoang**, T. N. M. Bui, and D. N. Nguyen, "Microstructure change for multi-pass welding between austenitic stainless steel and carbon steel," *Journal of Mechanical Engineering Research & Developments (JMERD)*, vol. 41, no. 2, pp. 97–102, 2018. **(Scopus)**
31. Nguyen, D. N., **Hoang, A. T**., Pham, X. D., Sai, M. T., Chau, M. Q., & Pham, V. V. "Effect of Sn component on properties and microstructure Cu-Ni-Sn alloys". *Jurnal Teknologi*, 80(6), 43-52. 2018. **(Scopus)**
32. **Hoang, A. T**., & Chau, M. Q. (2018). A mini review of using oleophilic skimmers for oil spill recovery. *Journal of Mechanical Engineering Research & Developments (JMERD)*, *41*(2), 92-96. **(Scopus)**
33. Hoang, A. T., Noor, M. M., & Pham, X. D. (2018). "Comparative analysis on performance and emission characteristic of diesel engine fueled with heated coconut oil and diesel fuel". *International Journal of Automotive and Mechanical Engineering*, *15*, 5110-5125. **(Scopus)**
34. **Hoang, A. T**., & Nguyen, D. C. (2018). Properties of DMF-fossil gasoline RON95 blends in the consideration as the alternative fuel. *International Journal on Advanced Science, Engineering and Information Technology*, *8*(6), 2555-2560.

35. **Hoang, A. T**., Nguyen, X. P., Le, A. T., Pham, M. T., Hoang, T. H., Al-Tawaha, A. R. M. S., & Yondri, S. (2019). Power generation characteristics of a thermoelectric modules-based power generator assisted by fishbone-shaped fins: Part II–Effects of cooling water parameters. *Energy Sources, Part A: Recovery, Utilization, and Environmental Effects*, 1-13. **(SCIE)**

36. **Hoang, Anh Tuan**. "Experimental study on spray and emission characteristics of a diesel engine fueled with preheated bio-oils and diesel fuel." *Energy,* 171 (2019): 795-808. **(SCIE)**

37. **A. T. Hoang**, V. D. Tran, V. H. Dong, and A. T. Le, "An experimental analysis on physical properties and spray characteristics of an ultrasound-assisted emulsion of ultra-low-sulphur diesel and Jatropha-based biodiesel," *Journal of Marine Engineering & Technology*, pp. 1–9, 2019, doi.org/10.1080/20464177.2019.1595355. **(Scopus)**

38. **Hoang, A. T.**, Le, V. V., Pham, V. V., & Tham, B. C. (2019). "An investigation of deposit formation in the injector, spray characteristics, and performance of a diesel engine fueled with preheated vegetable oil and diesel fuel". *Energy Sources, Part A: Recovery, Utilization, and Environmental Effects*, *41*(23), 2882-2894. **(SCIE)**

39. **Hoang, A. T**., & Le, A. T. (2019). Trilateral correlation of spray characteristics, combustion parameters, and deposit formation in the injector hole of a diesel engine running on preheated Jatropha oil and fossil diesel fuel. *Biofuel Research Journal*, *6*(1), 909. **(SCIE)**

40. **A. T. Hoang**, A. T. Le, and V. V. Pham, "A core correlation of spray characteristics, deposit formation, and combustion of a high-speed diesel engine fueled with Jatropha oil and diesel fuel," *Fuel*, vol. 244, pp. 159–175, 2019. **(SCIE)**

41. **A. T. Hoang** and A. T. Le, "A review on deposit formation in the injector of diesel engines running on biodiesel," *Energy Sources, Part A: Recovery, Utilization, and Environmental Effects*, vol. 41, no. 5, pp. 584–599, 2019. **(SCIE)**

42. **Hoang, A. T**., & Pham, V. V. (2019). "A study of emission characteristic, deposits, and lubrication oil degradation of a diesel engine running on preheated vegetable oil and diesel oil". *Energy Sources, Part A: Recovery, Utilization, and Environmental Effects*, *41*(5), 611-625. **(SCIE)**

43. **Hoang, A. T**., & Pham, V. V. (2019). "Impact of jatropha oil on engine performance, emission characteristics, deposit formation, and lubricating oil degradation". *Combustion Science and Technology*, *191*(3), 504-519. **(SCIE)**

44. **A. T. Hoang** and V. D. Tran, "Experimental analysis on the ultrasound-based mixing technique applied to ultra-low sulphur diesel and bio-oils," *International Journal on Advanced Science, Engineering and Information Technology*, vol. 9, no. 1, pp. 307–313, 2019. **(Scopus)**

45. **A. T. Hoang**, Q. V. Tran, A. R. M. S. Al-Tawaha, V. V. Pham, and X. P. Nguyen, "Comparative analysis on performance and emission characteristics of an in-Vietnam popular 4-stroke motorcycle engine running on biogasoline and mineral gasoline," *Renewable Energy Focus*, vol. 28, pp. 47–55, 2019. **(Scopus)**

46. Liu, J., Song, R., Nasreen, S., & **Hoang, A. T**. (2019). Analysis of the Complementary Property of Solar Energy and Thermal Power Based on Coupling Model. *Nature Environment & Pollution Technology*, *18*(5).

47. Le, A. T., Tran, D. Q., Tran, T. T., **Hoang, A. T**., & Pham, V. V. (2020). Performance and combustion characteristics of a retrofitted CNG engine under various piston-top shapes and compression ratios. *Energy Sources, Part A: Recovery, Utilization, and Environmental Effects*, 1-17. **(SCIE)**

48. Chau, M. Q., **Hoang, A. T**., Truong, T. T., & Nguyen, X. P. (2020). Endless story about the alarming reality of plastic waste in Vietnam. *Energy Sources, Part A: Recovery, Utilization, and Environmental Effects*, 1-9. **(SCIE)**

49. Hoang, P. N, **Hoang, A. T**, Sandro N., Nguyen X. P, Le A. T, Luong, C. N, Chu V. D, Pham V. V. (2020). The electric propulsion system as a green solution for management strategy of CO_2 emission in ocean shipping: A comprehensive review. *International Transactions on Electrical Energy Systems.* e12580. **(SCIE)**

50. **Hoang, A. T**., Tabatabaei, M., & Aghbashlo, M. (2020). A review of the effect of biodiesel on the corrosion behavior of metals/alloys in diesel engines. *Energy Sources, Part A: Recovery, Utilization, and Environmental Effects*, *42*(23), 2923-2943. **(SCIE)**

51. **Hoang, A. T**., Nižetić, S., & Ölçer, A. I. 2, 5-Dimethylfuran (DMF) as a promising biofuel for the spark ignition engine application: A comparative analysis and review. *Fuel*, *285*, 119140. **(SCIE)**

52. Nguyen, H. P., **Hoang, A. T**., Le, A. T., Pham, V. V., & Tran, V. N. (2020). Learned experiences from the policy and roadmap of advanced countries for the strategic orientation to electric vehicles: A case study in Vietnam. *Energy Sources, Part A: Recovery, Utilization, and Environmental Effects*, 1-10. **(SCIE)**

53. Yetri, Y., **Hoang, A. T**., Mursida, Dahlan, D., Muldarisnur, Taer, E., & Chau, M. Q. (2020). Synthesis of activated carbon monolith derived from cocoa pods for supercapacitor electrodes application. *Energy Sources, Part A: Recovery, Utilization, and Environmental Effects*, 1-15. **(SCIE)**

54. Nguyen, D. C., **Hoang, A. T**., Tran, Q. V., Hadiyanto, H., Wattanavichien, K., & Pham, V. V. (2020). A Review on the Performance, Combustion, and Emission Characteristics of Spark-Ignition Engine Fueled with 2, 5-Dimethylfuran Compared to Ethanol and Gasoline. *Journal of Energy Resources Technology*, *143*(4). **(SCIE)**

55. **Hoang, A. T.** (2020). Critical review on the characteristics of performance, combustion and emissions of PCCI engine controlled by early injection strategy based on narrow-angle direct injection (NADI). *Energy Sources, Part A: Recovery, Utilization, and Environmental Effects*, 1-15. **(SCIE)**

56. Bui, V. G., Tran, V. N., **Hoang, A. T**., Bui, T. M. T., & Vo, A. V. (2020). A simulation study on a port-injection SI engine fueled with hydroxy-enriched biogas. *Energy Sources, Part A: Recovery, Utilization, and Environmental Effects*, 1-17. **(SCIE)**

57. **Hoang, A. T**., Nguyen, T. H., & Nguyen, H. P. (2020). Scrap tire pyrolysis as a potential strategy for waste management pathway: a review. *Energy Sources, Part A: Recovery, Utilization, and Environmental Effects*, 1-18. **(SCIE)**

58. Cao, D. N., **Hoang, A. T**., Luu, H. Q., Bui, V. G., & Tran, T. T. H. (2020). Effects of injection pressure on the NOx and PM emission control of diesel engine: A review under the aspect of PCCI combustion condition. *Energy Sources, Part A: Recovery, Utilization, and Environmental Effects*, 1-18. **(SCIE)**

59. **Hoang, A. T**. (2020, February). Applicability of fuel injection techniques for modern diesel engines. In *AIP Conference Proceedings* (Vol. 2207, No. 1, p. 020018). AIP Publishing LLC. **(Scopus)**

60. V. V. Pham and **A. T. Hoang**, "Analyzing and selecting the typical propulsion systems for ocean supply vessels," *2020 6th International Conference on Advanced Computing and Communication Systems (ICACCS)*, Coimbatore, India, 2020, pp. 1349-1357. **(Scopus)**
61. Nguyen, X. P., & **Hoang, A. T.** (2020, March). The Flywheel Energy Storage System: An Effective Solution to Accumulate Renewable Energy. In *2020 6th International Conference on Advanced Computing and Communication Systems (ICACCS)* (pp. 1322-1328). IEEE. **(Scopus)**
62. Pham, V. V., **Hoang, A. T**., & Do, H. C. (2020, May). Analysis and evaluation of database for the selection of propulsion systems for tankers. In *AIP Conference Proceedings* (Vol. 2235, No. 1, p. 020034). AIP Publishing LLC. **(Scopus)**
63. **Hoang, A. T**., & Pham, V. V. (2020, May). A study on a solution to reduce emissions by using hydrogen as an alternative fuel for a diesel engine integrated exhaust gas recirculation. In *AIP Conference Proceedings* (Vol. 2235, No. 1, p. 020035). AIP Publishing LLC. **(Scopus)**
64. **Hoang, A. T.,** Ölçer, A. I., & Nižetić, S. (2020). Prospective review on the application of biofuel 2, 5-dimethylfuran to diesel engine. *Journal of the Energy Institute*. **(SCIE)**
65. Le, V. V., **Hoang, A. T.**, & Ölçer, A. I. (2020). Flame characteristics and ignition delay times of 2, 5-Dimethylfuran: A systematic review with comparative analysis. *Journal of Energy Resources Technology*, 1-47. **(SCIE)**
66. **Hoang, A. T**., Tabatabaei, M., Aghbashlo, M., Carlucci, A. P., Ölçer, A. I., Le, A. T., & Ghassemi, A. (2020). Rice bran oil-based biodiesel as a promising renewable fuel alternative to petrodiesel: A review. *Renewable and Sustainable Energy Reviews*, *135*, 110204. **(SCIE)**
67. **Anh Tuan Hoang**, Sandro Nižetić, Aykut I Ölçer, Hwai Chyuan Ong. Synthesis pathway and combustion mechanism of a sustainable biofuel 2, 5-Dimethylfuran: Progress and prospective. Fuel. 286. 119337. 2021. **(SCIE)**

VI. RESEARCH

1. **Main author** of scientific research: *Research on breaking of rod bolt in marine diesel engines,* approved by Vietnam Maritime University in 2004.

2. **Main author** of scientific research: *Calculation of thermal balance for continuous firing heater in order to heat rolling steel,* approved by Vietnam Maritime University in 2011.

3. **Main author** of scientific research: *Research on improving the properties of the biodiesel fuel for direct use on diesel engines,* approved by Vietnam Maritime University in 2013.

4. **Main author** of scientific research: *Study of direct use coconut oil as fuel for small diesel engines,* approved by Vietnam Maritime University in 2014.

5. **Main author** of scientific research: *Research on treating the weld heat aiming at serving shipping industry,* approved by **Vietnamese Ministry of Transportation** in 2016.

6. **Main author** of scientific research: *Evaluation of using biogasoline E10 on engine performance and emission characteristic of motocycles in Vietnam ,* approved by Ho Chi Minh University of Transport in 2017.

7. **Main author** of scientific research: *Evaluation of using biogasoline E10 on engine performance and emission characteristic of motocycles in Vietnam ,* approved by Ho Chi Minh University of Transport in 2017.

8. **Main author** of scientific research: *The sorbent for oil spill based on polyurethane and Vietnamese agricultural residues,* approved by **Vietnamese Ministry of Transportation** in 2017.

9. **Main author** of scientific research: *Study of synthetic 2,5 - Dimethyl furan (DMF) and using in ICE to reduce the environmental pollution,* approved by **Vietnamese Ministry of Transportation** in 2018.

10. **Main author** of scientific research: *Using TRIP steel for automotive industry in fabricating*, approved by **Vietnamese Ministry of Transportation** in 2018.

11. **Main author** of scientific research: *Study of using ULSF-BO emulsion created by ultra-sound for marine engine to reduce the sulfa emissions*, approved by **Vietnamese Ministry of Transportation** in 2018.

12. **Main author** of scientific research: *Study of the corrosion phenomenon in the fuel system of diesel engine as using biofuels*, approved by **Vietnamese Ministry of Transportation** in 2018.

13. **Main author** of scientific research: *Research and manufacture a cluster of equipment that converts traditional small marine diesel engines to PPCI engines, using a mixture with partially pre-mixed on the intake line, in order to increase power and reduce environmental pollution*, approved by **Vietnamese Ministry of Transportation** in 2019.

14. **Main author** of scientific research: *Design and manufacture a cluster of equipment that converts waste heat from cooling water of marine diesel engines into electrical energy on the basis of Rankin cycle using inexpensive organic work agents, with low ODP, GWP, to improve energy efficiency and economy*, approved by **Vietnamese Ministry of Transportation** in 2020.

15. **Co-author** of scientific research: *Research, design and manufacture the heater system for utilizing engine exhaust gas energy to heating up B100,* approved by Hanoi University of Science and Technology in 2014.

16. **Co-author** of scientific research: *Research on conversion equipment for using Dimethyl ether for diesel engines,* approved by **Vietnamese Ministry of Transportation** in 2014.

17. **Co-author** of scientific research: *Research on using of alternative biofuels for diesel engines,* approved by **Vietnamese Ministry of Transportation** in 2015.

18. **Co-author** of scientific research: *Design of multi-purpose carbonizing machinery to improve the durability of forklift lifts,* approved by Ho Chi Minh University of Transport in 2017.

19. **Co-author** of scientific research: *Test production of alloy samples CuNi9Sn3 for serving the electrical equipment in shipping industry,* approved by Ho Chi Minh University of Transport in 2017.

20. **Co-author** of scientific research: *The sorbent for oil spill based on polyurethane and Vietnamese agricultural residues,* approved by **Vietnamese Ministry of Transportation** in 2017.

21. **Co-author** of scientific research: *Research on technology to convert diesel engine to use new fuel PRO-made from waste rubber, in order to reduce fuel cost and environmental pollution,* approved by **Vietnamese Ministry of Transportation** in 2019.

22. **Co-author** of scientific research: *Research and manufacture an integrated equipment system between EGR with the addition of hydrogen gas on the intake manifold for marine diesel engines, in order to reduce fuel consumption and environmental pollution,* approved by **Vietnamese Ministry of Transportation** in 2020.

Hoang Anh Tuan

Signed