

# 5GH Foundation



5GH-WuGH-20240801.001

## **Professor from University of Nottingham Earns Authorships by “Reviewing and Editing” Manuscripts, mostly with Tsinghua**

YAN Yuying, a professor affiliated to both the University of Nottingham, UK, and the University of Nottingham Ningbo China, earned 11 authorships in 2024, with his contribution of “Writing – review & editing”. An investigation by the 5GH team reveals.

According to the records on Google Scholar, YAN have published 35 papers in 2024 (based on the issue time rather than the publication time), among 11 of which his contribution was stated and only stated as “Writing – review & editing”.

Most (8) of them were co-authored by CAO Bingyang, vice dean in the School of Aerospace Engineering, Tsinghua University, and a winner for the National Science Fund for Distinguished Young Scholars. The first author of these 8 papers was a same researcher, LUO Ding, with China Three Gorges University and Tsinghua University. It is reasonable to assume that LUO is currently a post-doctor and/or visiting researcher under the supervision of CAO.

DOI	Journal	Title	Authors	Submitted	Accepted	Contribution/Remark
10.1016/j.apenergy.2024.123642	Applied Energy	Realizing rapid cooling and latent heat recovery in the thermoelectric-based battery thermal management system at high temperatures	Ding Luo, Zhao Wu, Li Jiang, Yuying Yan, Wei-Hsin Chen, Jin Cao, Bingyang Cao	2024-03-03	2024-06-03	Writing – review & editing
10.1016/j.ijhydene.2024.07.256	International Journal of Hydrogen Energy	Optical diagnostic study of ammonia-kerosene dual-fuel engine combustion process	Genan Zhu, Wanchen Sun, Hao Zhang, Liang Guo, Yuying Yan, Shaodan Lin, Wenpeng Zeng, Mengqi Jiang, Changyou Yu	2024-05-17	2024-07-16	Visualization (?), Validation, Supervision
10.1016/j.ijheatmasstransfer.2024.123513	International Journal of Heat and Mass Transfer	Modeling and study of pressure-dependent boiling crisis in membrane-based heat sink	Rong Fu, Chuan Chen, Yuying Yan, Qidong Wang, Liqiang Cao	2024-01-03	2024-04-22	Control Group
10.1016/j.est.2024.112679	Journal of Energy Storage	Performance analysis of a battery thermal management system combining thermoelectric, composite phase change material, and liquid cooling under extreme operating conditions	Ding Luo, Zhao Wu, Yuying Yan, Zeyu Sun, Lin Yang, Bingyang Cao	2024-01-24	2024-06-16	Writing – review & editing
10.1016/j.enconman.2024.118584	Energy Conversion and Management	Innovative design of an annular thermoelectric generator for enhanced automotive waste heat recovery	Ding Luo, Haokang Zhang, Jin Cao, Yuying Yan, Bingyang Cao	2024-02-28	2024-05-19	Formal analysis (?)
10.1016/j.energy.2024.132565	Energy	Performance analysis and optimization of an annular thermoelectric generator integrated with vapor chambers	Ding Luo, Zheng Li, Yuying Yan, Jin Cao, Haokang Zhang, Bingyang Cao	2024-04-30	2024-07-22	Writing – review & editing
10.1016/j.energy.2024.132376	Energy	Performance improvement of the automotive thermoelectric generator system with a novel heat pipe configuration	Ding Luo, Shuo Yang, Yuying Yan, Jin Cao, Xuelin Yang, Bingyang Cao	2024-04-17	2024-07-07	Writing – review & editing
10.1016/j.renene.2024.120903	Renewable Energy	Thermoelectric system investigation with the combination of solar concentration, greenhouse and radiative cooling for all-day power generation	Zhenning Yang, Fuqiang Wang, Zhichang Fu, Yan Dong, Huichuan Zou, Xudong Chen, Yuying Yan, Shuai Zhang	2024-03-20	2024-06-29	Control Group
10.1016/j.devce.2024.100435	Device	Increasing power densities in a thermoelectric generator by stacking and incorporating dual heat pipes	Ding Luo, Yuan Yu, Yuying Yan, Wei-Hsin Chen, Bingyang Cao	2024-04-01	2024-05-30	Conceived the idea
10.1016/j.applthermaleng.2024.123735	Applied Thermal Engineering	Design and optimization of a thermoelectric generator with dimple fins to achieve higher net power	Ding Luo, Zheng Li, Yuying Yan, Lin Yang, Jin Cao, Xuelin Yang, Bingyang Cao	2024-03-28	2024-06-17	Writing – review & editing
10.1016/j.enconman.2024.118472	Energy Conversion and Management	Performance improvement of the automotive thermoelectric generator by extending the hot side area of the heat exchanger through heat pipes	Ding Luo, Shuo Yang, Yuying Yan, Jin Cao, Bingyang Cao	2024-01-30	2024-04-23	Writing – review & editing
10.1016/j.jclepro.2024.142864	Journal of Cleaner Production	Enhancing the thermal cyclic reliability of salt-based shape-stabilized phase change materials by in-situ SiO <sub>2</sub> -C interconnectivity in rice husk carbon	Ziyuan Li, Yangjun Wang, Huan Wang, Shuai Zhang, Zhen Shang, Limei Tian, Yuying Yan	2023-11-13	2024-06-09	Control Group
10.1016/j.molliq.2024.125180	Journal of Molecular Liquids	Molecular dynamics simulation of bulk nano-oxygen-bubble fuel under high-pressure transport and sudden pressure drop process	Junfeng Zhang, Liang Guo, Wanchen Sun, Ningning Cai, Yuying Yan, Han Wang, Rong Xuan, Mengqi Jiang	2024-04-03	2024-06-02	Supervision, Resources
10.1016/j.applthermaleng.2024.122873	Applied Thermal Engineering	Impacts of distributed thermal and electric contact resistance on performance and geometric optimization of thermoelectric generators	Ying Li, Yong Shi, Ding Luo, Xuehui Wang, Yuying Yan	2023-11-17	2024-03-03	Control Group; Supervision, Project administration, Funding acquisition
10.1016/j.ijheatmasstransfer.2024.125325	International Journal of Heat and Mass Transfer	Charging and discharging in thermal energy storage unit with in-stone hybrid structure for enhancing heat transfer of phase change materials	Shuai Zhang, Yuying Yan, Ziming Cheng, Fuqiang Wang	2023-10-28	2024-02-11	Control Group; Conceptualization, Funding acquisition, Methodology, Supervision, Writing – review & editing
10.1007/s13369-023-08467-4	Arabian Journal for Science and Engineering	Thermal and Rheological Behavior of Hybrid Nanofluids Containing Diamond and Boron Nitride in Thermal Oil for Cooling Applications	Abulhassan Ali, Hani Naseer, Suhail Umer Ilyas, Patrick E. Pheasant, Rizwan Nasir, Mustafa Alsaady, Yuying Yan	2023-06-24	2023-11-18	
10.1080/17445302.2024.2356482	Ships and Offshore Structures	A numerical research on the hydrodynamic performance of marine propellers with bionic coupled blade sections	Jie Yang, Hongtao Gao, Yuying Yan	2023-05-30	2024-05-23	Resources, Writing-review & editing
10.1016/j.apenergy.2024.123032	Applied Energy	Study on effects of ethylene or acetylene addition on the stability of ammonia laminar diffusion flame by optical diagnostics and chemical kinetics	Liang Guo, Changyou Yu, Wanchen Sun, Hao Zhang, Peng Cheng, Yuying Yan, Shaodan Lin, Wenpeng Zeng, Genan Zhu, Mengqi Jiang	2023-10-19	2024-03-11	Writing – review & editing
10.1016/j.applthermaleng.2024.122687	Applied Thermal Engineering	Analysis of the heat transfer and anti-corrosion performance of an aluminum nitride porous ceramic skeleton with controllable preparation	Huan Wang, Ziyuan Li, Zhen Shang, Limei Tian, Shuai Zhang, Yuying Yan	2023-09-21	2024-02-07	Control Group
10.1016/j.fuel.2024.131035	Fuel	Study on spray characteristics of micro-nano bubble premixed fuel	Rong Xuan, Liang Guo, Ningning Cai, Wanchen Sun, Yuying Yan, Hao Zhang, Yanling Chen, Han Wang, Junfeng Zhang, Youxin Ge	2023-10-25	2024-01-19	Funding acquisition (?)
10.1016/j.fuel.2024.131027	Fuel	Optical investigation on effects of diesel injection strategy on ammonia/diesel dual fuel combustion characteristics and flame development	Wenpeng Zeng, Wanchen Sun, Liang Guo, Hao Zhang, Yuying Yan, Shaodan Lin, Genan Zhu, Mengqi Jiang, Changyou Yu	2023-10-11	2024-01-19	Validation, Supervision, Funding acquisition (?)
10.1016/j.ijheatmasstransfer.2023.125151	International Journal of Heat and Mass Transfer	Exploring the dynamic characteristics of thermoelectric generator under fluctuations of exhaust heat	Ding Luo, Yuying Yan, Wei-Hsin Chen, Bingyang Cao	2023-09-04	2023-12-24	Writing – review & editing
10.1021/acs.jpcc.3c07697	The Journal of Physical Chemistry B	Interfacial Behaviors and Oil Detachment Mechanisms by Modified Silica Nanoparticles: Insights from Molecular Simulations	Wenning Zhou, Xibo Tang, Xunliang Liu, Yuying Yan, Cong Chen	2023-11-22	2024-03-05	
10.1007/s00773-023-00976-z	Journal of Marine Science and Technology	A Numerical Investigation into the Influence of Bionic Ridge Structures on the Cavitation Performance of Marine Propellers	Jie Yang, Hongtao Gao, Yuying Yan	2023-05-02	2024-01-02	
10.1016/j.solener.2023.112281	Solar Energy	Light environment control for reducing energy loss and increasing crop yield in plant factories	Huichuan Zou, Chunzhe Li, Aoyu Zhang, Xinpeng Zhang, Xudong Chen, Fuqiang Wang, Yuying Yan, Shuai Zhang	2023-11-12	2023-12-19	Writing – review & editing
10.3380/fluids9010020	Fluids	Application of Machine Learning Algorithms in Predicting Rheological Behavior of BN-diamond/Thermal Oil Hybrid Nanofluids	Abulhassan Ali, Nawal Noshad, Abhishek Kumar, Suhail Umer Ilyas, Patrick E. Pheasant, Mustafa Alsaady, Rizwan Nasir, Yuying Yan	2023-12-04	2024-01-05	Writing—review and editing
10.1016/j.applthermaleng.2023.121756	Applied Thermal Engineering	Uniform cooling for concentrator photovoltaic cell by micro-encapsulated phase change material slurry in double-layered minichannels	Yan Wang, Weiran Kang, Yuying Yan	2023-04-21	2023-10-05	Control Group
10.1016/j.applthermaleng.2023.121648	Applied Thermal Engineering	Numerical analysis on thermal hydraulic characteristics of mesh-type ultra-thin vapor chambers	Rui Li, Yunhua Gan, Qiliang Luo, Yuying Yan, Yong Li	2023-04-13	2023-09-17	Resources
10.1007/s42235-023-00457-4	Journal of Bionic Engineering	Experimental Study on Impingement Processes of Fuel Sprays on Biomimetic Structured Surfaces	Yanling Chen, Liang Guo, Wanchen Sun, Yuying Yan, Rong Xuan, Junfeng Zhang	2023-01-16	2023-11-10	
10.1016/j.jclepro.2023.140089	Journal of Cleaner Production	Numerical investigation of a battery thermal management system integrated with vapor chamber and thermoelectric refrigeration	Ding Luo, Haifeng Wu, Jin Cao, Yuying Yan, Xuelin Yang, Bingyang Cao	2023-09-01	2023-12-04	Writing – review & editing
10.1016/j.jclepro.2023.139834	Journal of Cleaner Production	Performance investigation and design optimization of a battery thermal management system with thermoelectric coolers and phase change materials	Ding Luo, Zhao Wu, Yuying Yan, Jin Cao, Xuelin Yang, Yulong Zhao, Bingyang Cao	2023-09-21	2023-11-18	Software
10.1016/j.energy.2023.129530	Energy	Hybrid sensible-latent heat thermal energy storage using natural stones to enhance heat transfer: Energy, exergy, and economic analysis	Shuai Zhang, Ying Li, Yuying Yan	2023-06-01	2023-10-30	Control Group; Conceptualization, Analysis, Supervision, Arrange funding, Writing – review & editing, revision, response to comments
10.1016/j.ijthermalsci.2023.108666	International Journal of Thermal Sciences	Experimental investigation of deposition patterns of citric acid modified magnetic nanofluids droplet affected by substrate temperatures	Zeyu Liu, Yuying Yan	2023-04-11	2023-09-15	Control Group
10.1016/j.fuel.2023.129390	Fuel	Optical diagnostic study of internal and external EGR combined with oxygenated fuels of n-butanol, POE3 and DMC to optimize the combustion process of FT synthetic diesel	Wanchen Sun, Genan Zhu, Liang Guo, Hao Zhang, Yuying Yan, Shaodan Lin, Wenpeng Zeng, Xin Zhang, Mengqi Jiang, Changyou Yu	2023-03-07	2023-08-01	The statement has no information about YAN
10.1007/s10904-022-02481-z	Journal of Inorganic and Organometallic Polymers and Materials	Rheological Characteristics and Environmental Remediation Using Fe <sub>3</sub> O <sub>4</sub> -SiC Hybrid Nanomaterials in Heat Transfer Oil: Experimental Evaluation and Modeling	Mustafa Alsaady, Suhail Umer Ilyas, Abulhassan Ali, Khuram Maqsood, Yuying Yan, Pau Loke Show	2022-05-17	2022-09-22	

The above-mentioned 11 papers as well as other 16 papers have one thing in common: although they were co-authored by multitype authors, YAN is the only one with the University of Nottingham. This indicates that the YAN's team at University of Nottingham did not involve in the researches, and the YAN's authorships on these 27 papers are problematic.

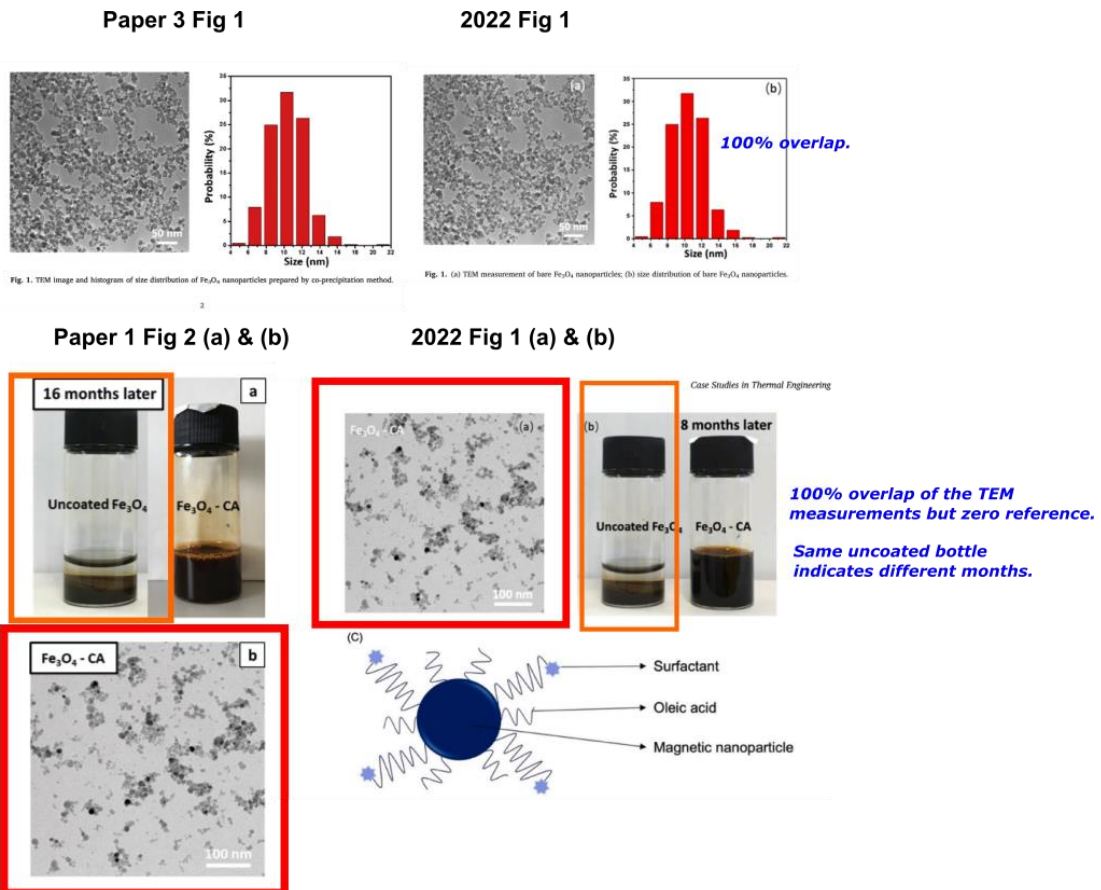
Until recently, the 5GH team hears nothing from YAN and related parties.

The 5GH team also finds that YAN's publications on 3 of his special issues, namely, "3rd International Symposium of Fluids and Thermal Engineering" on Thermal Science and Engineering Progress, "Smart Solutions of Thermal Management and Innovative Technology Applied to Electrical Engineering, Power Electronics and Energy Systems" on e-Prime - Advances in Electrical Engineering, Electronics and Energy, and "Challenges of micro and nano flow and structures for heat transfer enhancement and energy storage" on Case Studies in Thermal Engineering.

Special Issue: Smart Solutions of Thermal Management and Innovative Technology Applied to Electrical Engineering, Power Electronics and Energy Systems			
Editor(s): Yuying Yan, Yunhua Gan, Huiming Zou			
Journal: e-Prime - Advances in Electrical Engineering, Electronics and Energy			
DOI	Title	Author(s)	Contribution
10.1016/j.prime.2023.100118	Experimental Research on the Effect of Oil Charge Ratio on the Cooling Performance of CO2 Air Conditioning System for Electric Vehicles	Huiming Zou, Zuohang Tang, Rongrong Zhang, Zhaogang Qi, Gang Li, Mingsheng Tang	
10.1016/j.prime.2023.100117	A study on thermal and hydraulic performance of ultra-thin heat pipe with hybrid mesh-groove wick	Tang Xiong, Rui Li, Yunhua Gan, Qiliang Luo, Yong Li, Ronghui Qi	
10.1016/j.prime.2023.100125	Design and optimization of driving motor cooling water pipeline structure based on a comprehensive evaluation method and CNN-PSO	Yuncong Wang, Ming Li, Rujin Wang, Gaolin Hou, Wei Chang	
10.1016/j.prime.2023.100126	Potential energy saving opportunities in big box retail stores in Northern climates—Case study towards sustainable buildings	Hebatalah Mohamed Teamah, Mohamed Teamah	
10.1016/j.prime.2023.100129	Photoactive decontamination and reuse of face masks	Dingzhang You, Qingyuan Liu, Lin Wang, Kaiying Wang, Guohua Liu	
10.1016/j.prime.2023.100150	Dynamics of droplets on a thin [EMIm]Ac ionic liquid film	Fangfang Zhang, Zhen Shen, Geng Chen, Shuyan Che	
10.1016/j.prime.2023.100163	Investigation of continuous pulse current source on the performance of phase change material-thermoelectric cooler system	Yanhong Guo, Xinyu Zhang, Jing Wang, Yuying Yan, Yong Ren	No statement
10.1016/j.prime.2023.100170	Study on high-speed electric motor cooling with oil spray	Xuehui Wang, Yuying Yan, Ying Li	No statement
10.1016/j.prime.2023.100180	Recent development in structural designs and thermal enhancement technologies of thermoelectric generator with different types of heat sources: A review	Ying Li, Xuehui Wang, Ding Luo, Yong Shi, Yong Ren, Yuying Yan	No statement
10.1016/j.prime.2023.100229	Techno-economic study of a photovoltaic power plant besides the railway track for rural uses in Bangladesh	Abu Kowsar, Foyzunnesa Naima, Md Tasnim Rana, Nawshad Hatue, Firoz Alam	
10.1016/j.prime.2023.100230	Transient temperature control performance evaluation of a novel hybrid PCM-based active heat sink	De-Xin Zhang, Chuan-Yong Zhu, Xin-Yue Duan, Bing-Huan Huang, Liang Gong, Kui Li, Ming-Hai Xu	
10.1016/j.prime.2023.100227	Novel optimization strategy of a flow-induced piezoelectric vibration-based energy harvesting structure	Tuo Hou, Yiwei Jiang, Jing Wang, Yong Ren	

YAN published multitype papers on each special issue, which is against the policy from the publisher Elsevier, allowing its guest editor(s) to publish maximum one paper on each of their special issues.

Although the outcomes from our investigation do not suggest these papers were resulted from misconduct, however, the publications from YAN and his co-author LIU Zeyu with Dalian Maritime University are alerting.



Our investigation was initiated by an anonymous e-mail, pointing that 2 of the papers [1-4] co-authored by YAN and LIU et. al., had plagiarized image(s) from other papers, and plagiarism in LIU's Ph.D. thesis. These misconducts were confirmed by the 5GH team, and both the source and the 5GH reported these issues to the journals and the universities. And we are waiting the reactions.

[1] 10.1016/j.tsep.2018.08.015

[2] 10.1016/j.csite.2022.102160

[3] [pubpeer.com/publications/CC406B5B8B262AC1C2D50DAB5814A4](https://pubpeer.com/publications/CC406B5B8B262AC1C2D50DAB5814A4)

[4] [pubpeer.com/publications/0E927B8D55F2EF83A96A55306564E8](https://pubpeer.com/publications/0E927B8D55F2EF83A96A55306564E8)

[5] Supporting Information </WuGH/YAN-Yuying.xlsx>

---

This article is licensed to the 5GH Foundation under a CC BY-NC-ND 4.0 International License