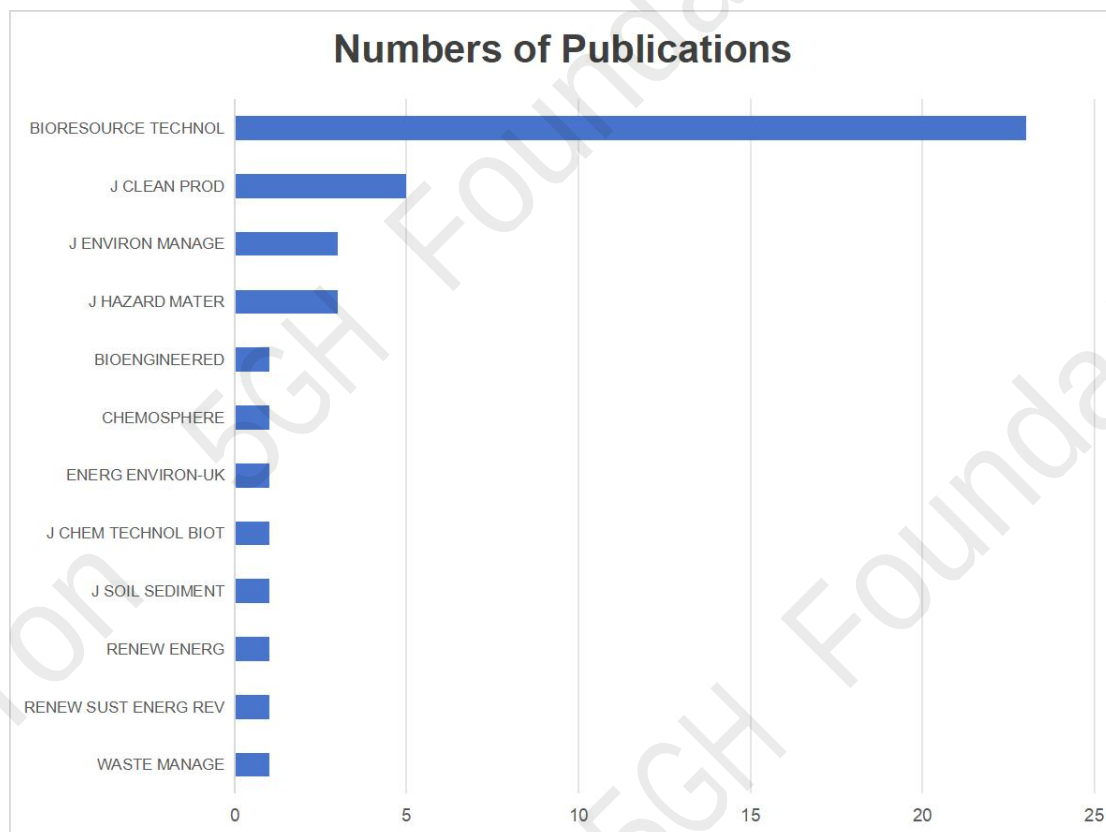


这项国家自然科学基金支持的研究发表了 **49** 篇论文和图书章节，一半在
Bioresource Technology 上

近日，通过公开信息检索，5GH 团队发现，共有 49 篇学术出版物（包括研究论文，综述，以及图书章节）在致谢中表示，得到了编号为 31750110469 的国家自然科学基金项目支持。其中包括研究论文 38 篇，综述 4 篇，以及图书章节 7 篇。在 42 篇（38+4）研究论文以及综述中，有 23 篇（占 55%）发表在《Bioresource Technology》，其次为《Journal of Cleaner Production》（5 篇），《Journal of Environmental Management》（3 篇），以及《Journal of Hazardous Materials》（3 篇）。



尽管发表过于集中在《Bioresource Technology》而引发一些疑问，但 5GH 团队希望强调“这次检索并不是针对该国家自然科学基金项目”，而是一次为后续对国家自然科学基金项目开展第

三方评估做的准备，以检验相关检索策略是否能在缺乏基金委公开数据支持的情况下，获取基金项目产出的较完整数据。

DOI	Title	Author(s)	Type	Journal	Issued
10.1016/j.biortech.2019.121896	Effects of clay on nitrogen cycle related functional genes abundance during chicken manure composting	Tao Lu, Mukesh Kumar Awasthi, Sanjeev Kumar Awasthi, Yimin Duan, Hongyu Chen, Zengqiang Zhang	Research Article	Biorescience Technology	
10.1016/j.biortech.2017.12.011	The dynamic of cellulase activity of fungi treating organic municipal solid waste	Suresh Saranya, Sanjeev Kumar Awasthi, Mukesh Kumar Awasthi, Ashish Kumar Awasthi, Sulekha Mitta, Jinhong Chen	Research Article	Biorescience Technology	
10.1016/j.biortech.2019.121845	Response of bamboo biochar amendment on volatile fatty acids accumulation reduction and humification during chicken manure composting	Yimin Duan, Sanjeev Kumar Awasthi, Tao Lu, Zengqiang Zhang, Mukesh Kumar Awasthi	Research Article	Biorescience Technology	
10.1016/j.biortech.2018.10.045	Evaluating the impact of bamboo biochar on the fungal community succession during chicken manure composting	Yimin Duan, Sanjeev Kumar Awasthi, Hongyu Chen, Tao Lu, Zengqiang Zhang, Lirong Zhang, Mukesh Kumar Awasthi, Mohammad J. Taherzadeh	Research Article	Biorescience Technology	
10.1016/j.biortech.2020.122652	Relevance of biochar to influence the bacterial succession during pig manure composting	Mukesh Kumar Awasthi, Yimin Duan, Tao Lu, Sanjeev Kumar Awasthi, Zengqiang Zhang	Research Article	Biorescience Technology	
10.1016/j.biortech.2019.121377	Improvement of cleaner composting production by adding biochar: From the nitrogen conservation and greenhouse gas emission	Xuna Ren, Quan Wang, Mukesh Kumar Awasthi, Junchao Zhao, Jianchao Wang, Tao Lu, Honghua Li, Zengqiang Zhang	Research Article	Biorescience Technology	
10.1016/j.biortech.2017.12.037	Influence of biochar on volatile fatty acids accumulation and microbial community succession during bio-solid composting	Mukesh Kumar Awasthi, Sanjeev Kumar Awasthi, Quan Wang, Zhen Wang, Alok Pandey, Xuna Ren, Hongyu Chen, Meijing Wang, Junchao Zhao, Zengqiang Zhang	Research Article	Biorescience Technology	
10.1016/j.biortech.2017.12.083	Effect of composting on the thermal decomposition behavior and kinetic parameters of pig manure-derived solid waste	Yimin Duan, Sanjeev Kumar Awasthi, Quan Wang, Junchao Zhao, Xuna Ren, Junchao Zhao, Hongyu Chen, Meijing Wang, Taharid Bissal, Zengqiang Zhang	Research Article	Biorescience Technology	
10.1016/j.jmest.2018.11.108	An assessment of the persistence of pathogenic bacteria removed in chicken manure compost employing clay as additive via meta-genomic analysis	Mukesh Kumar Awasthi, Hongyu Chen, Yimin Duan, Tao Lu, Sanjeev Kumar Awasthi, Quan Wang, Ashish Pandey, Zengqiang Zhang	Research Article	Journal of Hazardous Materials	
10.1016/j.biortech.2018.12.020	Dynamics of fungal diversity and interactions with environmental elements in response to wheat straw biochar amended poultry manure composting	Yimin Duan, Sanjeev Kumar Awasthi, Tao Lu, Hongyu Chen, Zengqiang Zhang, Quan Wang, Xuna Ren, Zheng Tu, Mukesh Kumar Awasthi, Mohammad J. Taherzadeh	Research Article	Biorescience Technology	
10.1016/j.chemosphere.2018.12.103	Application of metagenomic analysis for selection of the biochar in the antibiotic resistance genes (ARGs) in the addition of clay during poultry manure composting	Mukesh Kumar Awasthi, Hongyu Chen, Sanjeev Kumar Awasthi, Yimin Duan, Tao Lu, Ashish Pandey, Sunita Varma, Zengqiang Zhang	Research Article	Chemosphere	
10.1016/j.biortech.2019.02.026	Positive impact of biochar alone and combined with bacterial consortium amendment on improvement of bacterial community during cow manure composting	Yimin Duan, Sanjeev Kumar Awasthi, Tao Lu, Sheela Varma, Quan Wang, Hongyu Chen, Xuna Ren, Zengqiang Zhang, Mukesh Kumar Awasthi	Research Article	Biorescience Technology	
10.1016/j.jclepro.2019.118864	Measurement of cow manure compost biotrichy and maturity based on seed sowing germination	Tao Lu, Meijing Wang, Mukesh Kumar Awasthi, Hongyu Chen, Sanjeev Kumar Awasthi, Yimin Duan, Tao Lu, Sanjeev Kumar Awasthi, Quan Wang, Ashish Pandey, Zengqiang Zhang	Research Article	Journal of Cleaner Production	
10.1016/j.biortech.2018.06.230	Utilization of medical waste to improve the composition and quality of bio-based organic matter in composted pig manure	Quan Wang, Mukesh Kumar Awasthi, Junchao Zhao, Xuna Ren, Meijing Wang, Honghua Li, Zhen Wang, Zengqiang Zhang	Research Article	Journal of Cleaner Production	
10.1016/j.biortech.2020.123024	Effect of the coal gasification slag on improvement of bacterial diversity community during pig manure composting	Tao Lu, Mukesh Kumar Awasthi, Hongyu Chen, Quan Wang, Tao Lu, Yimin Duan, Sanjeev Kumar Awasthi, Xuna Ren, Zheng Tu, Jie Li, Junchao Zhao, Zengqiang Zhang	Research Article	Biorescience Technology	
10.1016/j.biortech.2019.07.064	Succession of bacterial diversity in the poultry manure composted mixed with clay: Studies upon its dynamics and associations with physicochemical and genomic parameters	Mukesh Kumar Awasthi, Hongyu Chen, Quan Wang, Tao Lu, Yimin Duan, Sanjeev Kumar Awasthi, Xuna Ren, Zheng Tu, Jie Li, Junchao Zhao, Zengqiang Zhang	Research Article	Biorescience Technology	
10.1016/j.jclepro.2019.117818	Effect of tertiary amine herbicide on carbon transformation and global warming potential during chicken manure composting	Xuna Ren, Quan Wang, Mukesh Kumar Awasthi, Junchao Zhao, Zheng Tu, Honghua Li, Liang Zengqiang Zhang	Research Article	Journal of Cleaner Production	
10.1016/j.jmest.2020.122116	Emerging applications of biochar: Improving pig manure composting and attenuation of heavy metal mobility in mature compost	Mukesh Kumar Awasthi, Yimin Duan, Sanjeev Kumar Awasthi, Tao Lu, Hongyu Chen, Ashish Pandey, Zengqiang Zhang, Mohammad J. Taherzadeh	Research Article	Journal of Hazardous Materials	
10.1002/165979.2020.1730238	Metagenomics for taxonomy profiling: tools and approaches	Mukesh Kumar Awasthi, S. Ravindran, Suresh Saranya, Hongyu Chen, Sheela Varma, Alok Singh, Tao Lu, Sunit Kumar, Ashish Pandey, Jie Li, Junchao Zhao, Zengqiang Zhang	Research Article	Bioengineering	Retracted due to plagiarism
10.1016/j.jclepro.2020.120624	Succession of keratin-degrading bacteria and associated health risks during pig manure composting	Yimin Duan, Sanjeev Kumar Awasthi, Tao Lu, Ashish Pandey, Zengqiang Zhang, Sunit Kumar, Mukesh Kumar Awasthi	Research Article	Journal of Cleaner Production	
10.1016/j.biortech.2020.122652	Influence of bamboo biochar on mitigating greenhouse gas emissions and nitrogen loss during poultry manure composting	Mukesh Kumar Awasthi, Yimin Duan, Sanjeev Kumar Awasthi, Tao Lu, Zengqiang Zhang	Research Article	Biorescience Technology	
10.1016/j.biortech.2019.122407	Effect of biochar and bacterial inoculum additions on soil dung composting	Mukesh Kumar Awasthi, Yimin Duan, Sanjeev Kumar Awasthi, Tao Lu, Zengqiang Zhang	Research Article	Biorescience Technology	
10.1016/j.jemman.2019.109667	Effect of black soldier fly (Diptera: Stratiomyidae) on food waste and sewage sludge composting	Tao Lu, Mukesh Kumar Awasthi, Sanjeev Kumar Awasthi, Yimin Duan, Zengqiang Zhang	Research Article	Journal of Environmental Management	
10.1016/j.biortech.2018.06.073	Influence of clay as additive on greenhouse gases emission and maturity evaluation during chicken manure composting	Hongyu Chen, Mukesh Kumar Awasthi, Tao Lu, Junchao Zhao, Xuna Ren, Meijing Wang, Yimin Duan, Sanjeev Kumar Awasthi, Zengqiang Zhang	Research Article	Biorescience Technology	
10.1016/j.renewe.2020.01.065	Effect of biochar on emission, maturity and bacterial dynamics during sheep manure composting	Mukesh Kumar Awasthi, Yimin Duan, Sanjeev Kumar Awasthi, Tao Lu, Junchao Zhao, Sangeetha Kishor, Ashish Pandey	Research Article	Renewable Energy	
10.1016/j.jmest.2019.121908	Effects of microbial culture and chicken manure biochar on compost maturity and greenhouse gas emissions during chicken manure composting	Hongyu Chen, Sanjeev Kumar Awasthi, Tao Lu, Yimin Duan, Xuna Ren, Zengqiang Zhang, Ashish Pandey, Mukesh Kumar Awasthi	Research Article	Journal of Hazardous Materials	
10.1002/ctb.5986	Compost biochar application to contaminated soil reduces the immobilization and phytoavailability of lead and copper	Hongyu Chen, Sanjeev Kumar Awasthi, Tao Lu, Yimin Duan, Zengqiang Zhang, Mukesh K Awasthi	Research Article	Journal of Chemical Technology & Biotechnology	
10.1016/j.biortech.2019.121890	Evaluation of integrated biochar with bacterial consortium on greenhouse emissions mitigation and nutrients sequestration during pig manure composting	Yimin Duan, Sanjeev Kumar Awasthi, Tao Lu, Zengqiang Zhang, Mukesh Kumar Awasthi	Research Article	Biorescience Technology	
10.1016/j.biortech.2018.07.010	New insight of tertiary amine modified bentonite amendment on the nitrogen transformation and volatile fatty acids during the chicken manure composting	Xuna Ren, Mukesh Kumar Awasthi, Quan Wang, Junchao Zhao, Honghua Li, Zheng Tu, Hongyu Chen, Sanjeev Kumar Awasthi, Zengqiang Zhang	Research Article	Biorescience Technology	
10.1016/j.biortech.2019.02.030	The behavior of antibiotic resistance genes and their associations with bacterial community during poultry manure composting	Mukesh Kumar Awasthi, Tao Lu, Hongyu Chen, Sheela Varma, Yimin Duan, Sanjeev Kumar Awasthi, Quan Wang, Xuna Ren, Junchao Zhao, Zengqiang Zhang	Research Article	Biorescience Technology	
10.1016/j.wasman.2018.01.015	Combining biochar, zeolite and wood vinegar for composting of pig manure: The effect on greenhouse gas emission and nitrogen conservation	Quan Wang, Mukesh Kumar Awasthi, Xuna Ren, Junchao Zhao, Honghua Li, Zhen Wang, Meijing Wang, Hongyu Chen, Zengqiang Zhang	Research Article	Waste Management	
10.1016/j.biortech.2019.122255	Changes in global trends in food waste composting: Research challenges and opportunities	Sanjeev Kumar Awasthi, Suresh Saranya, Mukesh Kumar Awasthi, Tao Lu, Junchao Zhao, Sunit Kumar, Zengqiang Zhang	Review	Biorescience Technology	
10.1016/j.biortech.2019.121905	Microbial dynamics for lignocellulosic waste biodegradation and its importance with modern circular economy: challenges and future perspectives	Suresh Saranya, Anshu Jha, Sanjeev Kumar Awasthi, Yimin Duan, Mukesh Kumar Awasthi, Jinghui Shi	Review	Biorescience Technology	
10.1016/j.biortech.2017.12.040	Evaluation of microbial dynamics during post-consumption food waste composting	Sanjeev Kumar Awasthi, Jonathan W.C. Wong, Jian Li, Quan Wang, Zengqiang Zhang, Sunit Kumar, Mukesh Kumar Awasthi	Research Article	Biorescience Technology	
-	Greenhouse Gas Emissions through Biological Processing of Solid Waste and Their Global Warming Potential	Mukesh Kumar Awasthi, Hongyu Chen, Sanjeev Kumar Awasthi, Tao Lu, Meijing Wang, Yimin Duan, Jie Li	Book Chapter	Biological Processing of Solid Waste	
10.1016/j.biortech.2020.122778	Resource recovery and circular economy from organic solid waste using aerobic and anaerobic digestion technologies	Sheela Varma, Mukesh Kumar Awasthi, Suresh Saranya, Hongyu Chen, Elita Singh, Anur Kumar, S. Ravindran, Sanjeev Kumar Awasthi, Tao Lu, Yimin Duan, Sunit Kumar, Zengqiang Zhang, Mohammad J. Taherzadeh	Review	Biorescience Technology	
10.1016/j.jclepro.2019.117715	Respond of clay amendment in chicken manure composts to understand the antibiotic resistant bacterial diversity and its correlation with physicochemical parameters	Mukesh Kumar Awasthi, Hongyu Chen, Tao Lu, Sanjeev Kumar Awasthi, Quan Wang, Xuna Ren, Yimin Duan, Zengqiang Zhang	Research Article	Journal of Cleaner Production	
10.1016/j.ree.2019.05.017	A critical review of organic manure biorefinery models based sustainable circular bioeconomy: Technological challenges, advancements, innovations, and future perspectives	Mukesh Kumar Awasthi, Suresh Saranya, Sheela Varma, Karthik Rajendran, Sunit Kumar, Wang Duan, Yimin Duan, Sanjeev Kumar Awasthi, Hongyu Chen, Ashish Pandey, Zengqiang Zhang, Anshu Jha, Mohammad J. Taherzadeh	Review	Renewable and Sustainable Energy Reviews	
10.1016/j.jemman.2019.109693	Performance of black soldier fly larvae (Diptera: Stratiomyidae) for manure composting and production of cleaner compost	Tao Lu, Awasthi Mukesh Kumar, Hongyu Chen, Yimin Duan, Sanjeev Kumar Awasthi, Zengqiang Zhang	Research Article	Journal of Environmental Management	
10.1016/j.biortech.2019.04.023	Role of Ca-bentonite to improve the humification, enzymatic activities, nutrient transformation and product quality during sewage sludge composting	Mukesh Kumar Awasthi, Sanjeev Kumar Awasthi, Quan Wang, Meijing Wang, Hongyu Chen, Tao Lu, Sanjeev Kumar Awasthi, Yimin Duan, Sunita Varma, Ashish Pandey, Zengqiang Zhang	Research Article	Biorescience Technology	
10.1007/s11380-019-02277-8	Role of compost biochar amendment on the immobilization of cadmium and zinc for Chinese cabbage (Brassica napus L.) from contaminated soil	Mukesh Kumar Awasthi, Quan Wang, Sanjeev Kumar Awasthi, Honghua Li, Junchao Zhao, Xuna Ren, Ren, Meijing Wang, Hongyu Chen, Zengqiang Zhang	Research Article	Journal of Soils and Sediments	
10.1016/j.jemman.2019.01.032	Feasibility of medical waste amendment for sewage sludge co-composting and production of nutrient-rich compost	Mukesh Kumar Awasthi, Quan Wang, Sanjeev Kumar Awasthi, Honghua Li, Junchao Zhao, Xuna Ren, Ren, Meijing Wang, Hongyu Chen, Zengqiang Zhang	Research Article	Journal of Environmental Management	
10.1007/978-961-13-3268-3	Greenhouse Gases Emission Mitigation and Utilization in Composting and Waste Management Industry: Potentials and Challenges	Mukesh Kumar Awasthi, Yimin Duan, Junchao Zhao, Xuna Ren, Sanjeev Kumar Awasthi, Tao Lu, Junchao Zhao, Ashish Pandey, Sunita Varma, Zengqiang Zhang	Book Chapter	CO2 Separation, Purification and Conversion to Chemicals and Fuels	
10.1016/978-0-444-64203-3_00013-1	Sustainability analysis of large-scale food waste composting	Tao Lu, Xuna Ren, Junchao Zhao, Hongyu Chen, Quan Wang, Sanjeev Kumar Awasthi, Yimin Duan, Ashish Pandey, Mohammad J. Taherzadeh, Mukesh Kumar Awasthi, Zengqiang Zhang	Book Chapter	Current Developments in Biotechnology and Bioengineering	
10.1016/978-0-444-64203-3_0006-2	Sustainable Management of Solid Waste	Mukesh Kumar Awasthi, Junchao Zhao, Parmela Ghara Soudan, Sunit Kumar, Hongyu Chen, Sanjeev Kumar Awasthi, Yimin Duan, Tao Lu, Ashish Pandey, Zengqiang Zhang	Book Chapter	Sustainable Resource Recovery and Zero Waste Approach	
10.1002/978357026394_46	Resource Recovery and Recycling from Livestock Manure: Current Status, Challenges, and Future Prospects for Sustainable Management	Tao Lu, Hongyu Chen, Junchao Zhao, Parmela Ghara Soudan, Xuna Ren, Sanjeev Kumar Awasthi, Yimin Duan, Mukesh Kumar Awasthi, Zengqiang Zhang	Book Chapter	Sustainable Resource Management, Volume I: Technologies for Recovery and Reuse of Energy and Waste Materials	
10.1016/978-0-444-64023-3_00003-8	Current Developments in Biotechnology and Bioengineering	Mukesh Kumar Awasthi, Suresh Saranya, Hongyu Chen, Quan Wang, Meijing Wang, Sanjeev Kumar Awasthi, Jie Li, Tao Lu, Ashish Pandey, Zengqiang Zhang	Book Chapter	Global Status of Waste-to-Energy Technology	
11717096505505985417	Current status of global warming potential reduction by cleaner composting	Tao Lu, Sanjeev Kumar Awasthi, Yimin Duan, Ashish Pandey, Zengqiang Zhang, Mukesh K Awasthi	Research Article	Energy & Environment	
10.1007/978-961-13-3268-3_4	Recent Advances in Physiochemical of Toxic Metals from Contaminated Sites: A Road Map to a Safer Environment	Mukesh Kumar Awasthi, D. Gao, Sanjeev Kumar Awasthi, Quan Wang, Hongyu Chen, Tao Lu, Yimin Duan, Parmela Ghara Soudan, Zengqiang Zhang	Book Chapter	Bioremediation of Industrial Waste for Environmental Safety	

国家自然科学基金项目一直有规范的结题流程和评估，但由于各种制度的原因，公众难以获得并利用这些数据，难以了解国家资助项目的效益情况。为此，5GH 团队希望利用自身已有数据资源，开展对国家自然科学基金效益的第三方评估机制，并欢迎全球学术社区对这一数据集的使用展开广泛的合作。

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