

Appendix A-16 The main situation of students' participation in innovative practice activities in the past three years and a brief description of the activities they have participated in



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List of projects of the Practical Innovation Training Program for undergraduate students in the past 3 years

serial number	The name of the project	Tutor's name	Time	grade
1	Study on the mechanism of humus-enhanced microbial reduction and remediation of hexavalent chromium pollution in water	Li Yuanping	2023-2025	National
2	Experimental study on the preparation of Fe-Ca-Al composite oxide particles by biological template method for the treatment of sulfate wastewater	Li Wang Aihe	2021-2023	National
3	Built-in and polarimetric electric field control of carbon nanofibers catalyzed degradation of persistent organic pollutants	Wang Caiwen	2023-2025	Provincial level
4	Optimal preparation of diatomaceous earth/NdTiO ₂ and photocatalytic degradation of tetracycline	Shu Jinkai	2022-2024	Provincial level
5	Magnetic biochar-activated persulfate degradation diclofenac in water	Wang yang	2022-2024	Provincial level
6	Preparation of composite photocatalyst BiOI/rGO and its performance for photocatalytic degradation of rhodamine B wastewater	Shu Jinkai	2021-2023	Provincial level
7	Degradation of tetrabromodiphenyl ether by sludge-based biochar combined with microorganisms	Li Yuanping	2021-2023	Provincial level
8	Energy recovery device for sewage treatment plant based on carbon peak and carbon balance	Chi Nianping	2021-2023	Provincial level
9	Study on the efficacy of composite modified filler three-dimensional electrolytic fixed bed in the treatment of catering wastewater	Zhou Jun Li Hao	2020-2022	Provincial level
10	Experimental study on the treatment of fluorine-containing wastewater with chitosan-Fe ₃ O ₄ @Ca-Fe-La composite adsorbent material	Wang Aihe Shu Jinkai	2020-2022	Provincial level
11	Experimental study on the coupling degradation of sulfonamides in surface water by photocatalytic powder-ceramic membranes	Chi Nianping	2023-2025	Provincial level
12	Kaolin activated monosulfate degrades PPCPs	Jiang Haiyan	2020-2022	School level
13	Research and application of composite three-dimensional electrolytic bed integration device	Zhou Jun	2023-2024	School level

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A list of the various competitions in which students participate

serial number	Student's Name (1st)	Award-winning projects	Organizers	annual	level	guide teacher
1	Hu Huixiang Li Lily Wang Mingwei	The second prize of the 3rd "BEWG Cup" group of the national college students' innovative practice ability in municipal environment	Harbin Institute of Technology	2021	National	Li Hao Jiang Haiyan
2	Hu Huixiang	The third prize of the laboratory competition of the 3rd "BEWG Cup" competition of the national college students' municipal environmental innovation and practice ability	Harbin Institute of Technology	2021	National	Li Hao Jiang Haiyan
3	Li Lily	The third prize of the laboratory competition of the 3rd "BEWG Cup" competition of the national college students' municipal environmental innovation and practice ability	Harbin Institute of Technology	2021	National	Li Hao Jiang Haiyan
4	Wang Mingwei	The third prize of the laboratory competition of the 3rd "BEWG Cup" competition of the national college students' municipal environmental innovation and practice ability	Harbin Institute of Technology	2021	National	Li Hao Jiang Haiyan
5	Hu Huixiang	The first prize of the virtual competition of the 3rd "BEWG Cup" Competition of National College Students' Municipal Environment Innovation and Practice Ability	Harbin Institute of Technology	2021	National	Li Hao Jiang Haiyan
6	Li Lily	The first prize of the virtual competition of the 3rd "BEWG Cup" Competition of National College Students' Municipal Environment Innovation and Practice Ability	Harbin Institute of Technology	2021	National	Li Hao Jiang Haiyan
7	Wang Mingwei	The first prize of the virtual competition of the 3rd "BEWG Cup" Competition of National College Students' Municipal Environment Innovation and Practice Ability	Harbin Institute of Technology	2021	National	Li Hao Jiang Haiyan
8	Chen Pengyu	The second prize of the virtual competition of the 3rd "BEWG Cup" Competition for the innovative practice ability of municipal environment of national college students	Harbin Institute of Technology	2021	National	Li Yuanping Zhang Chun
9	Zou Bin	The first prize of the virtual competition of the 3rd "BEWG Cup" Competition of National College Students' Municipal Environment Innovation and Practice Ability	Harbin Institute of Technology	2021	National	Li Yuanping Zhang Chun
10	Zhu Chenyang	The first prize of the virtual competition of the 3rd "BEWG Cup" Competition of National College Students' Municipal Environment Innovation and Practice Ability	Harbin Institute of Technology	2021	National	Li Yuanping Zhang Chun
11	Zhu Chenyang	The third prize of the laboratory competition of the 3rd "BEWG Cup" competition of the national college students' municipal environmental innovation and practice	Harbin Institute of Technology	2021	National	Li Yuanping Zhang Chun

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		ability				
12	Zou Bin	The third prize of the laboratory competition of the 3rd "BEWG Cup" competition of the national college students' municipal environmental innovation and practice ability	Harbin Institute of Technology	2021	National	Li Yuanping Zhang Chun
13	Jia Shunyao	First prize in the National College Student English Vocabulary Challenge	English Weekly Newspaper Agency	2022	National	
14	Wang Qian	The third prize of the Hunan Provincial College Students' Energy Conservation and Emission Reduction Social Practice and Science and Technology Competition: An electrically promoted advanced oxidation treatment process for efficient purification of dye wastewater	Hunan Provincial Department of Education	2023	Provincial	Chi Nianping
15	Yang Zhenwen	Third Prize of the 2nd University Electrical and Electronic Engineering Innovation Competition	China Electrotechnical Society	2023	National	Huang Zhiliang
16	Jia Shunyao	Third Prize in the National College Student English Competition	Research Association of Foreign Language Teaching in Colleges and Universities	2023	National	

Undergraduate papers published in the past 3 years

serial number	Title	periodical	student	Publication time	Guidance Teacher
1	Adsorption mechanism of sodium alginate composite membrane for removal of Cu(II.) in water	Guangdong Chemical	Liu Yuqi Duan Yixin Zhou Letao	2021.06	Jiang Haiyan
2	A review of the research on printing and dyeing wastewater treatment technology	Papermaking equipment and materials	Yang Yuewu, Huang Yuqin, Xu Wenzhen, Liu Shuyu	2022.08	Shu Jinkai

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serial number	Title	periodical	student	Publication time	Guide Teacher
3	An overview of the research on new fluoride removal materials at home and abroad	Hunan City College Newspaper (Natural Science Edition)	Liao Ziyuan, Yang Peixuan, Wen Tianlang	2022.09	Wang Aihe Shu Jinkai
4	ZnO/g-C ₃ N ₄ Nanostructured Photocatalyst for Enhancement of Photodegradation of Antibiotic Pollutant in Wastewater under Simulated solar Light Illumination	Int. J. Electrochem. Sci	Yuan Xinyi	2022.09	Chi Nianping
5	Efficient removal of RR2 dye by electro-Ce(III) process with its elegant arts and attractive charm in performance, energy consumption and mechanism	Environmental Research	Yang Zhenwen	2022.10	Chi Nianping
6	Influencing Factors and Kinetics of Modified Shell Powder/La-Fe-TiO ₂ Photocatalytic Degradation of Pyridine Wastewater	International journal of environmental research and public health	Liu Shuyu	2022.11	Shu Jinkai
7	Improving the humification by additives during composting: A review	Waste Management	Zou Bin	2023.01	Li Yuanping
8	Research on the countermeasures for heavy metal pollution control in Dongting Lake under the "dual carbon" goal	Papermaking equipment and materials	Liu Shuyu, Tang Jia, and Zhang Zhiyou, Luo Rixin	2023.07	Shu Jinkai