Staff Handbook for Mechanical Engineering

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Chang Degong

Name	*Chang Degong*		
Post	*Mechanical Engineering， Professor*		
Academic career	*Initial academic appointment* *Professor* *Doctorate（Mechanical Engineering）* *Master's Mechanical Engineering* *Bachelor's Mechanical Engineering*	*Institution* *Qingdao University of Science and Technology* *Beijing University of Aeronautics and Astronautics* *Tongji University* *Shandong Polytechnic University (now part of Shandong University)*	*Year* *1993* *1993* *1989* *1981*
Employment	*Position* *School of Mechanical and Automotive Engineering School of Mechanical and Automotive Engineering* *Professor、Director of Research Institute*	*Employer* *Qingdao Hengxing University of Science and Technology* *Qingdao Hengxing University of Science and Technology* *Qingdao University of Science and Technology*	*Period* *Jul 2023 - Present* *2019.03-2023.07* *1984.08-2017.07*

Research and development projects over the last 5 years	*Name of project or research focus Period and any other information* *Partners, if applicable* *Amount offinancing* *Participated in Shandong Provincial Higher Education Teaching Reform Project: "Reform and Innovation in the Construction of Intelligent Manufacturing Discipline Cluster under the Background of Emerging Engineering Education"* *Funding Agency: Shandong Provincial Department of Education* *Period: Dec 2022 - Dec 2025* *Funding Amount: CNY 20,000* *Participated in Shandong Provincial Educational Science Planning Project: "Research on the Construction of Emerging Engineering Majors in Application-Oriented Undergraduate Universities"* *Funding Agency: Shandong Provincial Office of Educational Science Planning* *Period: Jun 2024 - Jun 2026* *Funding Amount: CNY 0 (Self-funded / In-kind)*
Industry collaborations over the last 5 years	*Project title Partners* *Research on Hydropneumatic Spring Suspension， Rizhao Wantong Hydraulic Technology Co., Ltd.， Served as Director of the Hydropneumatic Spring Research Institute*
Patents and proprietary rights	*Title Year* *(Invention Patent) A Mechanical Control Type Automatic Separation Acceleration Device 2025*
Important publications over the last 5 years	*Selected recent publications from a total of approx. (give total number): 11* *Author(s)* *Title*

	Any other information *Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers (give total number): 11* *1.Xia Xiu , Degong Chang , Yunpeng Ju and Liang Zheng，An Analysis of the Kinematics and Dynamics Performance of a New Type of Three-Pronged Sliding Universal Coupling，APPLIED SCIENCES-BASEL 卷 14 期 9* *2. Xia Xiu, Yong Wang , Ye Zhou , Geng Niu , Shijun Zhao and Degong Chang，Creep Model and Experimental Verification of Sandstone under the Coupled Effect of Chemical Corrosion and Temperature，APPLIED SCIENCES-BASEL 卷: 14 期: 17* *3. Xia Xiu , Denggong Chang，Finite Element Analysis of Tripod-Ball Type Universal Coupling Composite Transmission Shaft System；Proceedings ofSPIE ， The International Society for Optical Engineering, v 13163, 2024* *4. Xia Xiu and Degong Chang，Modal Analysis of Tripod-Ball Type Universal Coupling Composite Transmission Shaft System；Journal of Physics，Conference Series, v 2787, n 1, 2024*
Activities in specialist bodies over the last 5 years	*None* *Membership without a specific role need not be mentioned*

Hu Hai

Name	*Hu Hai*		
Post	*Mechanical Engineering Associate Professor*		
Academic career	*Initial academic appointment* *Associate Professor* *Doctor of Engineering (Marine Engineering)* *Bachelor's Degree (Ship and Offshore Structure Design)*	*Institution* *Qingdao Hengxing University of Science and Technology Naval University of Engineering* *Naval University of Engineering*	*Year* *2022* *2014* *1992*
Employment	*Position* *Engineer* *Lecturer* *Lecturer*	*Employer* *Chinese Navy* *Qingdao Binhai University* *Qingdao Hengxing University of Science and Technology*	*Period* *1992-2017* *2017-2019* *2019 – Present*
Research and development projects over the last 5 years	*Intelligent Incubation Technology Development* *CNC Retrofit Design for Conventional Lathes* *Design and Development of Corn Harvesting Robot* *Collaborator: Qingdao Hengxing Group* *Period: March 2021 – September 2021* *Funding: CNY 10,000*		
Industry collaborations over the last 5 years	*None*		
Patents and proprietary rights	*Title* *Rigidity-Flexibility Switchable Magnetic*		*Year* *2022*

	Grasping Device for Robots
Important publications over the last 5 years	*Selected recent publications from a total of approx. (give total number):* *Hu Hai. (2020). "Research on the Application of Sound Intensity Measurement Technology in the Noise Monitoring of Gearbox". Acoustics and Vibration, 8(3), 88-95.*
Activities in specialist bodies over the last 5 years	*Organisation Role Period* *None* *Membership without a specific role need not be mentioned*

Wang Limin

Name	*Wang Limin*		
Post	*Professor*		
Academic career	*Initial academic appointment* *Visiting Scholar, Civil & Environmental Engineering* *Postdoctoral Researcher, Civil & Hydraulic Engineering* *Ph.D., Structural Mechanics, Department of Engineering Mechanics* *M.S., Solid Mechanics, Department of Applied Mechanics* *B.S., Mechanical Engineering (Thermal Engineering Teacher Training Program)*	*Institution* *Hong Kong University of Science and Technology* *Dalian University of Technology* *Dalian University of Technology* *Beijing Institute of Technology* *East China Petroleum Institute (now China University of Petroleum)*	*Year* *2002.09-2003.07* *1998.08-- 2000.08* *1995.03-1998.07* *1990.09-1993.04* *1978.10-- 1982.07*
Employment	*Position* *Teaching Assistant、Lecturer、Associate Professor(Mechanics)* *Professor (Mechanics/Civil Engineering)*; *Professor(Mechanics/Civil & Mechanical Engineering)*	*Employer* *Shandong University of Technology(formerly Shandong Institute of Technology)* *Qingdao University of Technology*	*Period* *1982.08--2000* *2001-2008.07* *2008.9-2022.12*
Research and development projects over the last 5 years	*Shandong Natural Science Foundation (Grant No. ZR2020MA058)* *Title: Multiscale Study on Anti-Cracking and Impact Resistance of Concrete with Bridging Fibers* *Host Institution: Qingdao University of Technology* *Period: Jan 2021 – Dec 2023*		

	Funding: CNY 100,000
Industry collaborations over the last 5 years	*Industry Project with Shandong Langjin Technology Co., Ltd.* *Focus: Design Optimization and Strength Calculation Analysis of Communication Towers*
Patents and proprietary rights	*Title* *Year* *None*
Important publications over the last 5 years	*1. Ouyang P., Wang L., Zhang C., Wang X., Chen F., Zhong Y. (2024). Fracture damage process analysis of steel fiber reinforced concrete. Journal of Qingdao University of Technology, 45(2), 1-10.* *2. Cui D., Wang L.* (Corresponding Author), Xue H., Zhang C., Gao D., Chen F. (2024). Dynamic splitting test and analysis of fiber concrete under impact loading. Journal of Vibration and Shock, 43(16), 219-226.* *3. Cui D., Wang L., Zhang C., Xue H., Gao D., Chen F. (2024). Dynamic splitting performance and energy dissipation of fiber-reinforced concrete under impact loading. Materials, 17(2), 421. https://doi.org/10.3390/ma17020421* *(Highly Cited Paper)*
Activities in specialist bodies over the last 5 years	*Organisation* *Role* *Chinese Society for Composite Materials Member*, *Dams Branch, Chinese Hydraulic Engineering Society Standing Committee Member* *Chinese Society of Theoretical and Applied Mechanics Member* *Membership without a specific role need not be mentioned*

Xing Jianguo

Name	*Xing Jianguo*		
Post	*Mechanical Engineering， Professor*		
Academic career	*Initial academic appointment* *Professor* *Professor* doctorate（Mechanical Engineering） master degree（Mechanical Engineering） *Bachelor's Degree in Mechanical Manufacturing Technology and Equipment*	*Institution* *Qingdao Hengxing University of Science and Technology* *Qingdao University* *Zhejiang University* *Harbin Institute of Technology* *Shandong University of Technology (formerly Shandong Institute of Technology)*	*Year* *2024* *2004* *2001* *1989* *1986*
Employment	*Position* *Lecturer* *Lecturer* *Lecturer*	*Employer* *Shandong University of Technology* *Qingdao University* *Qingdao Hengxing University of Science and Technology*	*Period* *1989-2003* *2003-2024* *2024*
Research and development projects over the last 5 years	Participant in National Natural Science Foundation Youth Program Project: Micro-mechanism Research of Ultrasonic Vibration-Assisted 3D Helical Grinding Surface Funding: CNY 250,000 Period: [Dates not specified - suggest adding]		

Industry collaborations over the last 5 years	*Key Technology Development for Energy-Saving Balance in Heating Pipeline Networks， Huaneng Qingdao Thermal Power Co., Ltd.*
Patents and proprietary rights	*Title* *Year* *(Invention Patent) Self-Operated Flow Control Valve* *2019* *(Invention Patent) Sealing Device for Gaps in Sintering Machine Pallet Side Plate* *2019* *(Utility Model Patent) Sealing Device for Gaps in Sintering Machine Pallet Side Plates* *2019*
Important publications over the last 5 years	*Selected recent publications from a total of approx.*： *None*
Activities in specialist bodies over the last 5 years	*Organisation* *Role* *Period* *Membership without a specific role need not be mentioned*

Zhao Qingzhi

Name	*Zhao Qingzhi*		
Post	*Mechanical Engineering-Professor*		
Academic career	*Initial academic appointment* *Ph.D. in Mechanical Design, Manufacturing and Automation (Engineering)* *Ph.D. in Mechanical Design, Manufacturing and Automation (Engineering)* *B.S. in Mechanical Manufacturing Technology and Equipment (Engineering)*	*Institution* *Shandong University of Technology* *Nanjing University of Aeronautics and Astronautics* *Shenyang University of Technology* *Shandong University of Technology*	*Year* *1990* *2001* *1987* *1981*
Employment	*Position* *Mechanical EngineerEngineer Lecturer* *Lecturer*	*Employer* *Kenli Petrochemical General Plant, Dongying* *Shandong University of Technology* *Qingdao Hengxing University of Science and Technology*	*Period* *1985-1987* *1990-2023* *2023-2025*
Research and development projects over the last 5 years	*Lead Investigator: Shandong Provincial Mechanical Engineering Experimental Teaching Demonstration Center* *Funding Agency: Shandong Provincial Department of Education* *Year: 2024* *Project Lead: Development of Experimental Teaching Equipment and Reform*		

	of Teaching Models for Control Course Cluster Based on OBE Concept *Institution: Qingdao Hengxing University of Science and Technology* *Year: 2023*
Industry collaborations over the last 5 years	*None*
Patents and proprietary rights	*None*
Important publications over the last 5 years	*Selected recent publications from a total of approx.*：*4* *[1]Dong Aimei, Zhao Yanjun, Zhao Qingzhi . (2023). A New Teaching Paradigm with Certification Guidance, Innovation-Entrepreneurship Integration, and Multidimensional Interaction: Case Study of Mechatronic Engineering. Education Teaching Forum, (19), 9-12.* *[2] Liu Yang, Zhao Qingzhi, Wang Hongjia etc. (2022). Research on Decoding Method Based on Regular Expressions. Manufacturing Automation, 44(08), 48-50.* *[3] Zhao Qingzhi, Zhao Guoyong, Yang Zhenyu, etc. (2022). Teaching Reform and Innovation of Control Course Cluster for Excellent Engineer Program in Mechanical Engineering. Journal of Higher Education, 8(07), 118-127. CN 23-1593/G4.* *[4] Wang Jiaqi, Liu Yang, Zhao Qingzhi. (2021). Optimization Research on Engraving Model Height Based on SFS. Mechanical Engineer, (07), 34-36.*
Activities in specialist bodies over the last 5 years	*Organisation Role Period* *None* *Membership without a specific role need not be mentioned*

Sun Guiping

Name	*Sun Guiping*		
Post	*Mechanical Engineering， Associate Professor*		
Academic career	*Initial academic appointment* *Associate Professor* *Master's Mechanical Engineering* *Bachelor's Degree in Metal Materials Engineering*	*Institution* *Qingdao Hengxing University of Science and Technology* *Qingdao University of Technology* *Shanghai Jiao Tong University*	*Year* *2021* *2007* *1987*
Employment	*Position* *Lecturer* *General Manager* *Chief Engineer* *Sales General Manager → Chief Engineer*	*Employer* *Qingdao Hengxing University of Science and Technology* *Shandong Yilu Company* *Shandong Huitong Company* *Qingdao Casting Machinery Group Co., Ltd.*	*Period* *Apr 2021 – Present* *2016.02-2021.04* *2011.03-2016.02* *1987.07-2011.02*
Research and development projects over the last 5 years	*None*		
Industry collaborations over the last 5 years	*Research on steel pipe inner wall treatment technology-------Shandong Huitong Company* *Research on road anti-skid process equipment technology----------Shandong Yu Company*		

Patents and proprietary rights	*Title* *Year* *None*
Important publications over the last 5 years	*Selected recent publications from a total of approx. (give total number): XX* *None*
Activities in specialist bodies over the last 5 years	*Organisation* *Role* *Period* *None* *Membership without a specific role need not be mentioned*

Tan Yun'an

Name	*Tan Yun'an*		
Post	*Mechanical Engineering， Professor*		
Academic career	*Initial academic appointment* *Professor* *Council Member & Senior Member* *Senior Engineer* *MBA in Business Administration（ Mechanical Engineering）*	*Institution* *Qingdao Hengxing University of Science and Technology* *Chinese Mechanical Engineering Society* *Qingdao Mechanical Industry Corporation* *University of International Business and Economics* *Hunan University*	*Year* *2020* *2005* *1994* *2007* *1982*
Employment	*Position* *Lecturer* *General Manager、Director of Technology Center* *Deputy Factory Director 、Chief Engineer、Senior Engineer、Engineer*	*Employer* *Qingdao Hengxing University of Science and Technology* *Qingdao Huatong Group* *Qingdao Mechanical Industry Corporation*	*Period* *2020 – Present* *2004~2020* *1982~2004*
Research and development projects over the last 5 years	*Research and manufacturing of metal surface shot blasting cleaning machine.*		

Industry collaborations over the last 5 years	*Design and manufacture of manual devices for partial rotary valves.*
Patents and proprietary rights	*Title* *Year* *(Utility Model Patent) Quick Throttle Valve for Power Stations* *2020*
Important publications over the last 5 years	*Selected recent publications from a total of approx. (give total number):* None
Activities in specialist bodies over the last 5 years	*Organisation* *Role* *Period* *Deputy President of Qingdao Machinery Industry Association* *2021 - 2026*
	Membership without a specific role need not be mentioned years

Haitao Wang

Name	*Haitao Wang*		
Post	*Mechanical engineering major,Associate professor Mechanical Engineering，Associate Professor*		
Academic career	*Initial academic appointment* *Associate professor* *Associate Professor*	*Institution* *Qingdao Hengxing University of Science and Technology* *Qingdao Hengxing University of Science and Technology*	*Year* *2024*
	Master's degree(marine engineering) *Master's Degree in Marine Engineering*	*Naval University of Engineering Naval University of Engineering*	*2006*
	Undergraduate degree (Mechanical engineering) *Bachelor's Mechanical Engineering*	*Naval University of Engineering Naval University of Engineering*	*2002*
Employment	*Position* *Lecturer* *Engineer*	*Employer* *Qingdao Hengxing University of Science and Technology* *Chinese Navy*	*Period* *Mar 2019 – Present* *2006.01-2019.03*

Research and development projects over the last 5 years	Principal Investigator: Ministry of Education Supply-Demand Matching Employment Education Program Project: "Hengxing-Liding" Intelligent Manufacturing Employment Base Internship Program Partner: Liding Intelligent Equipment Group Co., Ltd. Period: Dec 2023 – Dec 2024 Funding: CNY 20,000
Industry collaborations over the last 5 years	Patent Technology Transfer Patent: Rigidity-Flexibility Switchable Magnetic Grasping Device for Robots Recipient: Qingdao Hengxing Robot Co., Ltd. Technology Development Project Project: Design and Development of Full-Corn Harvesting Robot Partner: Qingdao Dongsheng Fangrun Electronics Technology Co., Ltd.
Patents and proprietary rights	*Title* *Year* *(Utility Model Patent) Multifunctional Robot Control System 2021* *(Utility Model Patent) Rigidity-Flexibility Switchable Magnetic Grasping Device for Robots 2021*
Important publications over the last 5 years	*1. Haitao Wang (corresponding author), Motion control strategies for industrial robots and their performance evaluation,《Proceedings of 2024 3rd International Symposium on Robotics,Artificial Intelligence and Information Engineering,RAIIE*

	2024》 2024.9,Pages:50-53 2. *Haitao Wang. (Corresponding author). (2018). Optimal configuration of actuators in active vibration control systems. Journal of Henan Science and Technology, 2018(3), 45-48.*
Activities in specialist bodies over the last 5 years	*Organisation Role Period* N *Membership without a specific role need not be mentioned*

Xiu Xia

Name	*Xiu Xia*
Post	*Master's Degree in Marine Engineering Mechanical Engineering Associate Professor*
Academic career	*Initial academic appointment* — *Institution* — *Year* Associate Professor — *Qingdao Hengxing University of Science and Technology* — *2021* *Associate Professor* — *Shandong University of Science and Technology* — *2005* *Bachelor's Mechanical Engineering*
Employment	*Vice Dean, School of Mechanical and Automotive Engineering* — *Qingdao Hengxing University of Science and Technology* — *Jun 2022 – Present* *Teaching Assistant, School of Mechanical and Automotive Engineering* — *Qingdao Hengxing University of Science and Technology* — *2021.02-2022.06* *Director of Teaching and Research, School of Mechanical and Automotive Engineering* — *Qingdao Hengxing University of Science and Technology* — *2016.10-2021.02* *Teaching Supervisor & Technical Director, School of Mechanical and Automotive Engineering Position Director of Teaching and Research School of Mechatronics Engineering* — *Qingdao Hengxing University of Science and Technology Qingdao Hengxing University of Science and Technology Qingdao Yilong* — *2013.08-2016.10* *2012.02-2013.08* *2005.07-2012.02*

	Packaging Co., Ltd. *Qingdao Feiyang Vocational and Technical College*
Research and development projects over the last 5 years	*Name of project or research focus Period and any other information* *Partners, if applicable* *Amount offinancing*
Industry collaborations over the last 5 years	*Shandong Provincial Higher Education Teaching Reform Project* *Title: Reform and Innovation in Intelligent Manufacturing Discipline Cluster Construction under Emerging Engineering Education* *Funding Agency: Shandong Provincial Department of Education* *Period: Dec 2022 – Dec 2025* *Funding: CNY 20,000* *Shandong Provincial Educational Science Planning Project* *Title: Research on Emerging Engineering Major Construction in Application-Oriented Undergraduate Universities* *Funding Agency: Shandong Provincial Office of Educational Science Planning* *Period: Jun 2024 – Jun 2026* *Funding: Self-funded* *Ministry of Education Industry-Education Integration Program* *Title: Exploration of Dual-Qualified Faculty Development Under Project-Based Studio Cultivation Model* *Funding Agency: Beijing Sancan Co., Ltd.* *Period: Apr 2024 – Apr 2026* *Funding: CNY 20,000*

Patents and proprietary rights	*Title* *(Invention Patent) Automatic Sorting and Transfer Device for Cylindrical Materials* *(Invention Patent) Mechanically Controlled Automatic Separation Acceleration Device*	*Year* *2023* *2025*

Important publications over the last 5 years	*Selected recent publications from a total of approx. : 6* *1. Xia Xiu , Degong Chang , Yunpeng Ju and Liang Zheng. (2024). Kinematics and dynamics performance analysis of a novel three-pronged sliding universal coupling. Applied Sciences, *14*(9), [Article Number].* *2. Xia Xiu, Yong Wang , Ye Zhou , Geng Niu , Shijun Zhao and Degong Chang. (2024). Kinematics and dynamics performance analysis of a novel three-pronged sliding universal coupling. Applied Sciences, *14*(9), [Article Number].* *3. Jing-jing Wang, Ling Wang , Xia Xiu , A cooperative memetic algorithm for energy-aware distributed welding shop scheduling problem, Engineering Applications of Artificial Intelligence, 2023, 1(1): 20-32* *4. Bo Li, JING LIU , XIA XIU , GUANGLEI YANG1and KAIXING ZHU ; Insights into the charge storag, Indian Academy of Sciences, 2023.1, 1(1): 20-32* *5. Xia Xiu , Denggong Chang, Finite Element Analysis of Tripod-Ball Type Universal Coupling Composite Transmission Shaft System; Proceedings of SPIE , The International Society for Optical Engineering, v 13163, 2024* *6. Xia Xiu and Degong Chang, Modal Analysis of Tripod-Ball Type Universal Coupling Composite Transmission Shaft System; Journal of Physics, Conference Series, v 2787, n 1, 2024*
Activities in specialist bodies over the last 5 years	*Organisation* / *Role* / *Period* *Shandong Invention Association* / *Standing Council Member* / *2024.08-2029.08* *Membership without a specific role need not be mentioned*

Li Aiqin

Name	*Li Aiqin*		
Post	*Teaching area and designation* *Electrical Technology Associate Professor*		
Academic career	*Undergraduate degree (subject)* *Associate Professor* *Bachelor's Degree (Discipline not specified)*	*Institution* *Qingdao Hengxing University of Science and Technology* *Qingdao University*	*Year* *2014* *1998*
Employment	*Lecturer* *Electrical Designer*	*Employer* *Qingdao Hengxing University of Science and Technology* *Qingdao Jiayao Pharmaceutical Factory*	*Period* *May 2002 – Present* *1998.7-2001.3*
Research and development projects over the last 5 years	*Hosted University Reform Project* *Title: Research on Hybrid Teaching Model* *Year: 2022* *University-Level Research* *Title: Hengxing "Gold Course" Construction Study* *Year: 2021* *Teaching Reform Project*		

	Title: Significance and Implementation Requirements of Blended Teaching Models *Year: 2019* *University Special Prize for Teaching Achievement* *Achievement: Promoting Characteristic Advantages of "Automotive Service Engineering" in Application-Oriented Universities Guided by Industry Needs* *Year: 2021* *University First Prize for Teaching Achievement* *Achievement: Research and Application of the "Integration, Leverage, Collaboration, Guidance" Four-Force Model for Course Construction in Private Universities* *Year: 2021*
Industry collaborations over the last 5 years	*Industry Project* *Title: SMT Welding Technology Optimization Design* *Partner: Qingdao Haier Carrier Refrigeration Equipment Co., Ltd.* *Ministry of Education Project* *Title: Supply-Demand Matching Employment Education: Targeted Talent Training Program* *Partner: Henan Shengshi Hengxin Technology Co., Ltd.*
Patents and proprietary rights	*Title* *Year* *(Utility Model Patent) Portable Experimental Teaching Device for Electrical Engineering* *Year: 2023* *(Utility Model Patent) Electrical Distribution Cabinet for Power Work* *Year: 2021*

Important publications over the last 5 years	*Selected recent publications from a total of approx.：5* *Li, A. (2022). Practice and exploration of Hengxing 'Gold Course' based on online Electrotechnics course construction. Teacher Education Forum, (6), 15.* *Li, A. (2022). Research on blended teaching model for Electrotechnics under emerging engineering education. Teacher Education Forum, (6), 17.* *Li, A. (2021). Analysis of motor mechanical characteristics and its application in motor braking. Electronic Test, 476, 46.* *Li, A. (2021). Analysis and design of inverter systems in wind power generation. Electronics Manufacturing, 423, 79.* *Li, A. (2023). Innovative research and practice in Electrotechnics course teaching. Proceedings of Education Innovation Theory and Practice Symposium, 35.*
Activities in specialist bodies over the last 5 years	*Organisation Role Period* *None* *Membership without a specific role need not be mentioned* *None*

Li Yuezhen

Name	*Li Yuezhen*		
Post	*Intelligent Manufacturing Engineering/Electrical Engineering and Automation Associate Professor*		
Academic career	*Initial academic appointment*	*Institution*	*Year*
	Associate Professor	*Qingdao Hengxing University of Science and Technology*	*2024*
	Master's Degree（Vehicle Engineering）	*Rajamangala University of Technology Krungthep (Bangkok)*	*2024*
	Bachelor's Degree（Mechatronic Engineering）	*Shandong University*	*2011*
Employment	*Position*	*Employer*	*Period*
	Lecturer	*Qingdao Hengxing University of Science and Technology*	*2009.11-Present*
Research and development projects over the last 5 years	*University-Level Project* *Title: Effective Application of AI Technology in Mechatronic Engineering* *Funding Agency: Qingdao Hengxing University of Science and Technology* *Period: Jun 2020 – Jun 2021* *Funding: CNY 5,000* *University-Level Project* *Title: Development of Novel First-Layer Auto-Leveling 3D Printer* *Funding Agency: Qingdao Hengxing University of Science and Technology* *Period: Jun 2023 – Jun 2024* *Funding: CNY 15,000*		

Industry collaborations over the last 5 years	Industry-University Collaboration 1.Garden Waste Recycling Device Design Partner: Shandong Guide Future Technology Innovation Co., Ltd. 2.Maintenance-Friendly Damp-Proof Electrical Control Cabinet System Partner: Qingdao Yinshi Project Management Co., Ltd.	
Patents and proprietary rights	*Title*	*Year*
	Patents	*2022*
	(Utility Model) Road Construction Machinery	*2022*
	Crushing Device (2022)	*2021*
	(Utility Model) Safety-Guarded Power Construction	*2024*
	Equipment (2022)	*2024*
	(Utility Model) Portable Electronic Information	*2024*
	Display Device (2021)	*2024*
	Software Copyrights	*2025*
	Battery Charge-Discharge Management System	*2025*
	(2024)	
	Battery Data Analysis System (2024)	
	Mechatronic Intelligent Control Platform (2024)	
	Automated Mechanical Fault Detection System	
	(2024)	
	Remote Monitoring & Fault Diagnosis System for	
	Mechatronic Equipment (2025 Expected)	
	Production Scheduling Optimization Software for	
	Smart Manufacturing Workshops (2025 Expected)	
Important publications over	*Selected recent publications from a total of approx. (give total number): 4* *1. Li, Y. (2024). Research on auto-leveling first-layer 3D printers. Modern Industrial Economy and Informationization, Aug 2024.*	

the last 5 years	2. Li, Y. (2022). IoT applications in mechatronic interface technology. Modern Industrial Economy and Informationization, Jan 2022. 3. Li, Y. (2021). Effective implementation of AI in mechatronic engineering. Southern Agricultural Machinery, 03/2021. 4. Li, Y. (2020). PLC-based smart home security alarm system design. Hebei Agricultural Machinery, 12/2020. 5. Li, Y. (2020). Reform and research in materials mechanics experimental teaching. Hebei Agricultural Machinery, 04/2020.
Activities in specialist bodies over the last 5 years	*Organisation* *Role* *Period* *None* *Membership without a specific role need not be mentioned*

Chen Xinchen

Name	*Chen Xinchen*
Post	*Mechanical Engineering，Associate Professor*
Academic career	*Associate Professor* *Qingdao Hengxing University of Science and Technology* *2024* *Master's Degree（Vehicle Engineering）* *Ketttering University* *2017* *Bachelor's* *Mechanical Engineering* *University of Manitoba* *2014*
Employment	*Associate Professor* *Qingdao Hengxing University of Science and Technology* *2024.09-Present* *Lecturer* *Qingdao Hengxing University of Science and Technology* *2021.06-2024.09* *Teaching Assistant* *Qingdao Technician College* *2018.02-2021.06* *Teaching Assistant* *Qingdao Sifang Locomotive & Rolling Stock Technician College* *2015.05-2018.02*

Research and development projects over the last 5 years	*Name of project or research focus Period and any other information* *Partners, if applicable* *Amount offinancing* *Participant: Shandong Social Science Planning Project* *Title: Research on Key Factors for Creative Transformation of Chinese Traditional Culture* *Funding Agency: Shandong Planning Office* *Period: Jun 2021 – Jun 2025* *Funding: CNY 10,000*
Industry collaborations over the last 5 years	*Project title* *Partners* Project: Fluid Mechanics Virtual Teaching Model Based on Industry-University Cooperation Partner: Beijing Yundao Zhizao Technology Co., Ltd.
Patents and proprietary rights	*Title* *Year* *(Utility Model Patent) Feeding Device for New Energy Vehicle Processing* *Year: 2024* *(Utility Model Patent) Drying Equipment for Nanomaterial Production* *Year: 2024*
Important publications over the last 5 years	*Selected recent publications from a total of approx. (give total number): 11* *Author(s)* *Title* *Any other information*

	Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers (give total number): 11 *3. Xinchen Chen (corresponding author), Higher education quality evaluation based on neural network model, Journal of computational methods in sciences and engineering, vol. 24, no.3, 2024,* 4. *Chen, X. (Corresponding author). (2024). Key Research on the Creative Transformation of Fine Traditional Chinese Culture. Jinan: Qilu Press. (Forthcoming December 2024)*
Activities in specialist bodies over the last 5 years	*Organisation Role Period* *None* *Membership without a specific role need not be mentioned None*

LI HUA

Name	*Li Hua*
Post	*Mechanical Control Engineering，Associate Professor*
Academic career	*Initial academic appointment* — *Institution* — *Year* *Associate Professor* — *Qingdao Hengxing University of Science and Technology* — *2018* *Master's Degree（Control Engineering）* — *Qingdao University of Science and Technology* — *2014* *Bachelor's Degree（Automation）* — *Shandong Institute of Light Industry* — *2005*
Employment	*Position* — *Employer* — *Period* *Lecturer* — *Qingdao Hengxing University of Science and Technology* — *2005.09-Present*
Research and development projects over the last 5 years	*Participant: Undergraduate Teaching Reform Project* *Title: Research on Academic Quality Evaluation for Automotive Service Engineering Students Enabled by Digitalization* *Funding Agency: Shandong Provincial Department of Education* *Period: 2024 – 2025* *Principal Investigator: Shandong Higher Education Research Project* *Title: Construction and Practical Effectiveness of Industry-Education Integration Models in Higher Education* *Category: Social Science Planning Project* *Period: Oct 2024 – Nov 2025* *Principal Investigator: Grassroots Party-Building Research Project* *Title: Industry-University Party-Building Collaborative Education Mechanism in Application-Oriented Universities Under New Quality Productive Forces* *Period: Jul 2024 – Jun 2025*

Industry collaborations over the last 5 years	*Ministry of Education Industry-Education Integration Project* *Title: E4-Based Robotics Faculty Development 2024-2025* *Beijing Qinniu Chuangzhi Technology Co., Ltd.*；
Patents and proprietary rights	*Title* *Year* *(Utility Model Patent) Reversible Coating Dynamic Simulation Device (2021)* *(Utility Model Patent) High-Efficiency Automatic Stamping and Paper Sorting Device (2021)*
Important publications over the last 5 years	*Selected recent publications from a total of approx. (give total number): 1* *1. Li, H. (2022). Research on blended teaching model for Electrotechnics under emerging engineering education. Teacher Education Forum (Teacher Education Forum）, (6), 15-16.*
Activities in specialist bodies over the last 5 years	*Organisation* *Role* *Period* *None* *Membership without a specific role need not be mentioned*

Geng Meixiang

Name	*Geng Meixiang*		
Post	*Teaching area and designation： Mechanical Engineering， Associate Professor*		
Academic career	*Initial academic appointment* Specialized Training: Transportation Mechanical Design and Theory *Professional Certification*	*Institution* *Qingdao Hengxing University of Science and Technology* *Qingdao University of Technology* *Harbin Engineering University*	*Year* *2025* *2005-2008* *1999-2003*
Employment	*Position* *Senior Application Engineer*	*Employer* *SKF (China) Sales Co., Ltd.*	*Period* *2008-2024*
Research and development projects over the last 5 years	*Service Process Engine Platform Development, Iteration, and Promotion* *Period: Jan 2020 - Dec 2022* *Bearing Technology Implementation Promotion of DGBB/SRB in Intelligent Woodworking Machinery* *Period: Jan 2023 - Dec 2023* *Full-process Development of eVTOL Drive Bearings* *Period: Jun 2023 - Jun 2024*		

Industry collaborations over the last 5 years	*Renovation and Promotion of Spherical Roller Bearings for Cathode Rolls* *Custom Conveyor Chain Bearings* *Partner: SKF (China) Sales Co., Ltd.*
Patents and proprietary rights	*Title* *Year* *None*
Important publications over the last 5 years	*Selected recent publications from a total of approx. (give total number): XX*
Activities in specialist bodies over the last 5 years	*Organisation* *Role* *Period* *SKF (China) Sales Co., Ltd.* *Senior Application Engineer* *2008-2024* *Membership without a specific role need not be mentioned*

Cui Hongwei

Name	*Cui Hongwei*		
Post	*Mechanical Engineering， Lecturer*		
Academic career	*Initial academic appointment* *Institution* *Year* *Lecturer* *Qingdao Hengxing University of Science and Technology* *2018* *Master's Mechanical Engineering* *Qingdao University of Technology* *2014* *Bachelor's Degree（Mechanical Design, Manufacturing and Automation* *Qingdao University of Technology* *2012* *Automation）*		
Employment	*Position：* *Lecturer* *Teaching Assistant* *Technician*	*Employer：* *Qingdao Hengxing University of Science and Technology* *Qingdao Hengxing University of Science and Technology* *Qingdao Casting Machinery Co., Ltd.*	*Period* *2019.01-Present* *2016.04-2019.01* *2014.09-2016.04*

Research and development projects over the last 5 years	*1.* *University-Level Teaching Reform Project* *Title: Blended Teaching Reform for Digital Courses (Online-Offline Integration)* *Year: 2022* *Category: General Project* *Code: HXJY2022J053* *2. University-Level Teaching Reform Project* *Title: Flipped Classroom-Based Course Construction for "Fundamentals of Mechanical Design"* *Year: 2022* *Category: General Project* *Code: HXJY2022J039* *3. Curriculum Ideological-Political Project* *Course: Fundamentals of Mechanical Design* *Level: University* *Year: 2022* *4. Shandong Provincial Education Science Project* *Title: Research on Emerging Engineering Major Development Paths in Application-Oriented Universities* *Program: 14th Five-Year Plan* *Year: 2023* *Code: 2023ZC378* *5. Curriculum Ideological-Political Project* *Course: Computer-Aided Drawing (CAD)* *Level: University* *Year: 2024*
Industry collaborations over the last 5 years	*None*

Patents and proprietary rights	*Title*		*Year*
	(Utility Model Patent) Industrial Equipment Component Recycling and Transport Device	*ZL 2022 2 2185073.5*	*2022*
	Smart Manufacturing Decision Support Platform V1.0	*2025SR0428850*	*2025*
		2025SR0428860	*2025*
		2025SR0437576	*2025*
	Smart Manufacturing Production Tracking System V1.0 V1.0	*2025SR0437575*	*2025*
	Smart Manufacturing Equipment Maintenance Software V1.0		
	Smart Manufacturing Integrated Management System V1.0		
Important publications	*Selected recent publications from a total of approx.：5*		

over the last 5 years	*1. Hongwei Cui , Weiliang Li ,Xin Yu , et al.Study on the in-situ algae removal mechanism based on nitrogen-doped nanodiamond and cationic modified starch[C],2024.* *2. Cui, H., Cheng, X., He, R., et al. (2024, March 19). Blended teaching reform for digital courses (online-offline integration). Shanxi Science and Technology News, B06.* *3. Cheng, X., Yu, X., Li, W., Cui, H., & Qiao, L. (2024). Rockburst hazard prediction in deep coal mining using random forest. 2024 IEEE 6th International Conference on Power, Intelligent Computing and Systems, 7, 688-693.* *4. Cheng, X., & Cui, H. (2024). Flipped classroom instructional design for "Fundamentals of Mechanical Design". Shanxi Science and Technology News, B06.* *5. Liu, W., Zhang, H., Xiu, X., & Cui, H. (2018). Autocad Engineering Drawing Case Tutorial. Beijing: BIT Press.*		
Activities in specialist bodies over the last 5 years	*Organisation* *China Machinery Industry Federation*	*Role* *Senior Certification Assessor for Talent Evaluation*	*Period* 2025.3-2028.3

Zhang Kaida

Name	*Zhang Kaida*		
Post	*Mechanical Engineering， Lecturer*		
Academic career	*Initial academic appointment* *Lecturer* *Master's Mechanical Engineering* *Bachelor's Mechanical Engineering*	*Institution* *Qingdao Hengxing University of Science and Technology* *Technische Universität Ilmenau (Germany)* *Qingdao University of Science and Technology*	*Year* *2020 Present* *2016 -2019* *2010 -2015*
Employment	*Position* *Lecturer* *R&D Engineer*	*Employer* *Qingdao Hengxing University of Science and Technology* *Steinbeis Qualitätssicherung und Bildverarbeitung GmbH (Germany)*	*Period* *2020 Present* *2019 -2020*

Research and development projects over the last 5 years	*Hosted University Reform Project* *Title: Research on Hybrid Teaching Model* *Year: 2022* *University-Level Research* *Title: Hengxing "Gold Course" Construction Study* *Year: 2021*
Industry collaborations over the last 5 years	*Ministry of Education Industry-Education Integration Project Title: E4-Based Robotics Faculty Development 2024-2025 Beijing Qinniu Chuangzhi Technology Co., Ltd.*；
Patents and proprietary rights	*Title Year* *(Utility Model Patent) Reversible Coating Dynamic Simulation Device (2021) (Utility Model Patent) High-Efficiency Automatic Stamping and Paper Sorting* *Device (2021)*
Important publications over the last 5 years	*Selected recent publications from a total of approx. (give total number): XX* *1.Song, L., & Zhang, K. (2024). Research on rail pressure straightening based on ANSYS. Agricultural Equipment & Vehicle Engineering, 62(02), 121-124+129.* *2.Zhang, K., & Song, L. (2022). Temperature field analysis of single-pulse laser irradiated alumina ceramic based on COMSOL. China Water Transport, 22(22), 46-48.*
Activities in specialist bodies over the last 5 years	*Organisation Role Period* *None* *Membership without a specific role need not be mentioned*

He Linan

Name	*He Linan*		
Post	*Mechanical Engineering-Lecturer*		
Academic career	*Initial academic appointment* *Lecturer* *Teaching* *Assistant* *Master's Degree-Agricultural Mechanization Engineering* *Bachelor's Degree-Mechanical Design, Manufacturing and Automation*	*Institution* *Qingdao Hengxing University of Science and Technology* *Qingdao Hengxing University of Science and Technology* *Nanjing Agricultural University* *Qingdao Agricultural University*	*Year* *2022 Present* *2020-2022* *2016-2019* *2012-2016*
Employment	*Position* *Mechanical EngineeringDirector of Teaching & Research Office* *Lecturer* *Production TechnologyEngineer*	*Employer* *Qingdao Hengxing University of Science and Technology* *Qingdao Hengxing University of Science and Technology LG Chem (Nanjing)*	*Period* *2021.1-Present* *2020.5-Present* *2019.9-2020.5*

	New Energy Technology Co., Ltd.
Research and development projects over the last 5 years	*Participant: Shandong Higher Education Teaching Reform Project* *Title: Reform and Innovation in Intelligent Manufacturing Discipline Cluster Construction under Emerging Engineering Education* *Funding Agency: Shandong Provincial Department of Education* *Period: Dec 2022 – Dec 2025* *Funding: CNY 20,000* *Participant: Shandong Educational Science Planning Project* *Title: Research on Emerging Engineering Major Construction in Application-Oriented Universities* *Funding Agency: Shandong Office of Educational Science Planning* *Period: Jun 2024 – Jun 2026* *Funding: Self-funded* *Participant: Ministry of Education Industry-Education Integration Program* *Title: Dual-Qualified Faculty Development Under Project-Based Studio Cultivation Model* *Partner: Beijing Sancan Co., Ltd.* *Period: Apr 2024 – Apr 2026* *Funding: CNY 20,000* *Principal Investigator: Ideological-Political Demonstration Project* *Course: Mechanical Design* *Institution: Qingdao Hengxing University of Science and Technology* *Principal Investigator: Teaching Reform Project* *Title: Implementation of Project-Based "Teach-Learn-Practice" Integrated Talent Training Model*

Industry collaborations over the last 5 years	*None*	
Patents and proprietary rights	*Title* *Top-Bidirectional Auto-Opening Container* *Height-Adjustable Electric Scooter Seat with Electronic Control* *Radiation Sound Field Reconstruction Method Based on Regularization Algorithm*	*Year* *2024* *2023* *2021*
Important publications	*Selected recent publications from a total of approx.：4*	

<table>
<tr><td>over the last 5 years</td><td>
1. Yu, H., Xiu, X., & He, L. (2021). Design of grid-pattern laser quenching machine tool for cylinder liners. Internal Combustion Engine & Parts, (22), 4-5.
2. Wang, Z., Xiu, X., He, L., et al. (2023). In-situ steering design for household new energy vehicles. Auto Time, (01), 142-144.
3. He, L., Zhao, M., Zhao, T., et al. (2019). Design and testing of spiral-groove seed metering device for rice/wheat dual-use. Journal of Hunan Agricultural University (Natural Science Edition), 45(6), 657-663.
4. Zhuang, X., Li, M., Xiu, X., Dong, C., He, L., & Zhao, Q. (2025). Exploration and practice of industry-education integration for applied mechanical talents in private universities. Developmental Education, 6(2), [Page range].</td></tr>
<tr><td>Activities in specialist bodies over the last 5 years</td><td>Organisation | Role | Period
China Machinery Industry Federation | China Machinery Industry Federation | 2025.3-2028.3
Membership without a specific role need not be mentioned</td></tr>
</table>

Song Yi

Name	*Song Yi*
Post	*Mechanical Engineering， Lecturer*
Academic career	*Initial academic appointment Institution Year* *Lecturer Qingdao Hengxing University of Science and Technology 2021* *Master's Mechanical Engineering University of Electronic Science and Technology of China 2010* *Bachelor's Degree（Mechanical Engineering）、Mechanical Engineering Shandong University 2007*
Employment	*Position Employer Period* *Lecturer Qingdao Hengxing University of Science and Technology 2021 Present* *Engineer Hisense Group 2010-2021*
Research and development projects over the last 5 years	*Teaching Reform Project: Qingdao Hengxing University of Science and Technology, Project ID: HXJY2021J097, Research and Practice on Blended Teaching and Experimental Reform of the "Hydraulic and Pneumatic Transmission" Course, Oct 2023 - Oct 2024, 0 CNY (Funding Amount), Concluded, Principal Investigator (PI).* *University-Level First-Class Course Construction: Qingdao Hengxing University of Science and Technology, PI for the construction of the university-level first-class course "Hydraulic and Pneumatic Transmission".* *Curriculum Ideology and Politics Demonstration Course: Qingdao Hengxing University of Science and Technology, PI for the Curriculum Ideology and Politics demonstration course "Hydraulic and Pneumatic Transmission".*

	Provincial First-Class Course Construction: Participated in the construction of the Shandong Provincial first-class course "Interchangeability and Technical Measurement".
Industry collaborations over the last 5 years	*Industry Project: Participated in the linear vibrating screen design project, Qingdao Hengxing Engineering Equipment Co., Ltd.* *Industry Project: Participated in the control system design project for a de-icing robot, Qingdao Hengxing Engineering Equipment Co., Ltd.*
Patents and proprietary rights	*Title* *Year* *None*
Important publications over the last 5 years	*Selected recent publications from a total of approx. (give total number): XX* *Song Yi, Yu Xin, Xu Yunyan, et al. Design of an Efficient Detection and Automatic Collection Device for Marine Litter. Southern Agricultural Machinery, 2025, 56(06): 111-113.* *Song Yi, Yu Xin, Li Weiliang, et al. Design and Research of a Shark-Inspired Marine Litter Treatment Device Based on Marine Environment Monitoring. Construction Machinery, 2025, 56(02): 132-138+13.*
Activities in specialist bodies over the last 5 years	*Organisation* *Role* *Period* *None* *Membership without a specific role need not be mentioned*

Xu Yaoting

Name	*Xu Yaoting*		
Post	*Control Science and Engineering， Lecturer*		
Academic career	*Initial academic appointment* *Lect urer* *Tea chin g* *Assi stan t* *Initial academic appointment* Habilitation *[German post-doctoral qualification] (subject)* *Bachelor's Degree (Discipline not specified)* *master's degree Mechanical Engineering（Control Science and Engineering）* *bachelor's degree Mechanical Engineering（El ectrical Engineering and Automation）*	*Institution* *Qingdao Hengxing University of Science and Technology* *Qingdao Hengxing University of Science and Technology* *Jinan University* *Jinan University*	*Year* *2018 Present* *2016-2018* *2009-2013* *2013-2016*
Employment	*Position* *Lecturer*	*Employer* *Qingdao Hengxing*	*Period* *2016.7-Present*

	University of Science and Technology
Research and development projects over the last 5 years	*Name of project or research focus Period and any other information* *Partners, if applicable* *Amount offinancing*
Industry collaborations over the last 5 years	*Project title*
Patents and proprietary rights	*Title* *Year* *An Automatic Stamping Device with Gas-Liquid Mixture* *2022*
Important publications over the last 5 years	None
Activities in specialist bodies over the last 5 years	*Organisation Role Period* *None* *Membership without a specific role need not be mentioned*

Xu Ying

Name	*Xu Ying*		
Post	*Mechanical EngineeringLecturer*		
Academic career	*Initial academic appointment* *Master's Degree（Materials Engineering）* *Bachelor's Degree（Polymer Materials and Engineering）*	*Institution* *Xiamen University* *Jilin Jianzhu University*	*Year* *2017-2020* *2013-2017*
Employment	*Position* *Lecturer*	*Employer* *Qingdao Hengxing University of Science and Technology*	*Period* *2021 Present*
Research and development projects over the last 5 years	*None*		
Industry collaborations over the last 5 years	*None*		
Patents and proprietary rights	*Title* *2025* *(Software Copyright)Intelligent machining programming system for mechanical parts, 2025* *(Software Copyright)Flexible Manufacturing Production Line Management Software, 2025*		
Important publications over the last 5 years	*Selected recent publications from a total of approx. (give total number): XX* Ying Xu, Yolk-Shell Structured C/Mn_3O_4 Microspheres Derived from Metal		

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	Organic Frameworks with Enhanced Lithium Storage Performance; Energy Technology, *v 8, n 9,* 2020 Ying Xu, A Novel Co_3O_4/MnO_2/C Electrode with Hierarchical Heterostructure for High-performance Lithium-Ion Batteries; . ChemistrySelect *v 5, n 44,* 2020
Activities in specialist bodies over the last 5 years	*Organisation Role Period* *None* *Membership without a specific role need not be mentioned*

Sun Hui

Name	*Sun Hui*		
Post	*Lecturer*		
Academic career	*Initial academic appointment* 其他|级 *Master's Degree（Engineering）* *Bachelor's Degree（Engineering）*	*Institution* *Qingdao Hengxing University of Science and Technology* *Nanchang University* *Wuhan University of Technology*	*Year* *2023* *2003* *1999*
Employment	*Position* *Hardware Circuit Design EngineerEngineer* *Hardware Circuit Design EngineerEngineer* *Hardware Circuit Design EngineerEngineer*	*Employer* *Haier Group* *Hisense Group* *Rober Digital Technology Co., Ltd.*	*Period* *2008-2020* *2021-2022* *2022-2023*
Research and development projects over the last 5 years	*De-icing Robot Control System Development* *Qingdao Hengxing Engineering Equipment Co., Ltd. | Aug 2024 – Dec 2025* *Funding: ¥2,000,000 RMB*		
Industry collaborations over the last 5 years	*None*		

Patents and proprietary rights	*Title* *Year*
Important publications over the last 5 years	*Selected recent publications from a total of approx.*: *none*
Activities in specialist bodies over the last 5 years	*Organisation* *Role* *Period* *None* *Membership without a specific role need not be mentioned*

Feng Lili

Name	*Feng Lili*		
Post	*Mechanical Engineering， Lecturer*		
Academic career	*Initial academic appointment*	*Institution*	*Year*
	Lecturer	*Qingdao Hengxing University of Science and Technology*	*2023*
	Master's Mechanical Engineering	*Ketttering University*	*2016*
	Bachelor's Degree（Mechanical Design, Manufacturing and Automation）	*University of Manitoba*	*2012*
Employment	*Position*	*Employer*	*Period*
	AlgorithmEngineer	*Beijing Ansheng Technology Co., Ltd.*	*2018-2019*
	AlgorithmEngineer	*Beijing Yixinyiyi Technology Co., Ltd.*	*2020-2022*
	Lecturer	*Qingdao Hengxing University of Science and Technology*	*2023-Present*
Research and development projects over the last 5 years	*Applied for the provincial "Mechanical Engineering Provincial Experimental Teaching Demonstration Center" in 2023 year.*		
Industry collaborations over the last 5 years	Technology Development: Design of Bird Recognition System Qingdao Hengxing Robot Co., Ltd.		

Patents and proprietary rights	*Title* *Year* *(Invention) Method, Device, Equipment and Storage Medium for Optimizing Underwriting Inquiry Strategy* *2021*
Important publications over the last 5 years	*Yu Jian, Liu Bin, Xu Xuedong, Feng Lili, et al. Research on the Spatial Distribution Characteristics of Ultrasonic Cavitation Effect in Cylindrical Reservoirs [J]. Acoustics Technology, 2020, 39(2): 127-133.*
Activities in specialist bodies over the last 5 years	*Organisation* *Role* *Period* *None* *Membership without a specific role need not be mentioned*

Liu Liwei

Name	*Liu Liwei*
Post	*Mechanical Engineering Lecturer*
Academic career	*Undergraduate degree (subject) Institution Year* *Lecturer Qingdao Hengxing University of Science and Technology 2023* *Bachelor's Degree（Metallurgical Engineering） Kunming University of Science and Technology 2012*
Employment	*Position Employer Period* *Lecturer Qingdao Hengxing University of Science and Technology 2023.09 Present* *Quality Supervisor Shandong Intelligent Technology Co., Ltd. 2022.03-2023.07* *Quality Supervisor HP Inc. (Printer Division) 2013.05-2017.11* *Quality Staff Samsung Electronics (Printer Division) 2017.12-2021.06*
Research and development projects over the last 5 years	*None*
Industry collaborations over the last 5 years	*Technology Development: Linear Vibrating Screen Design Qingdao Hengxing Robotics Co., Ltd.*

Patents and proprietary rights	*Title* *Year* *None*
Important publications over the last 5 years	*Selected recent publications from a total of approx.*：*3* *Liu Liwei. (2022). Research on Investment Management and Control of Metallurgical Engineering Construction Projects. Technology New Age, (2), Beijing.* *Liu Liwei. (2022). Study on Safety Issues and Countermeasures in Metallurgical Engineering Construction. Home Weekly, (2), Chengdu.* *Liu Liwei. (2021). Significance and Measures of Environmental Protection in Metallurgical Engineering. Basic Level Construction, 21, Jinan.*
Activities in specialist bodies over the last 5 years	*Organisation* *Role*： *Period*： *None* *Membership without a specific role need not be mentioned*

Xiu Tongze

Name	Xiu Tongze		
Post	*Mechanical Engineering， Lecturer (Intermediate Professional Title)*		
Academic career	*Initial academic appointment* *Engineer* *Master's Mechanical Engineering* *Bachelor's Degree（Mechanical Design, Manufacturing and Automation）*	*Institution* *Jereh Group* *Shandong University of Science and Technology* *Weifang University*	*Year* *2021* *2015* *2011*
Employment	*Position* *Lecturer* *MechanicalEngineer* *Structural Engineer*	*Employer* *Qingdao Hengxing University of Science and Technology Jereh Group* *Hongfujin Precision Machinery & Electronics (Yantai) Co., Ltd.*	*Period* *2024.06-Present* *2020.9-2024.5* *2017.8-2020.8*
Research and development projects over the last 5 years	*None*		
Industry collaborations over	*None*		

the last 5 years		
Patents and proprietary rights	*Title*	*Year*
	Sanitation Vehicle	*2023*
	Adhesive Removal Collection Device and Adhesive	*2022*
	Removal Vehicle	*2022*
	Cleaning Vehicle	*2022*
	Sweeping Device	*2022*
	Transmission Device	*2022*
	Garbage Collection Tank for Sanitation Vehicle and	*2022*
	Sanitation Vehicle	*2022*
	Thermal Insulation System and Vehicle	*2022*
	Auxiliary Device for Automatic Antifreeze Filling on	*2022*
	Sanitation Vehicles	*2021*
	Floor Cleaner	*2021*
	Road Sweeper	
	Rapid Drainage Structure for Sewage Tank	
	Traverse Device for Cleaning Equipment, Cleaning	
	Equipment, and Sweeper	
	Rear Suction Device and Sweeper Equipped Therewith	
	Multi-functional Modular Tank for Cleaning Vehicle and	
	Cleaning Vehicle	

	2021 *2021* *2021* *2021* *2021* *2021*
Important publications over the last 5 years	*Selected recent publications from a total of approx. (give total number):* *Xiu Tongze. (2015). Strata Behavior Law in 4324 Extremely Irregular Working Face of Daizhuang Coal Mine. Inner Mongolia Coal Economy, May 2015.* *Xiu Tongze. (2015). Water Inrush Mechanism and Prevention Technology in Deep Coal Seam Floor. Coal Technology, August 2015.*
Activities in specialist bodies over the last 5 years	*Organisation Role Period* *None* *Membership without a specific role need not be mentioned*

Song Lixing

Name	*Song Lixing*
Post	*machine design， teaching assistant*
Academic career	*Initial academic appointment* *Institution* *Year* *Undergraduate degree (subject)* *University of Shanghai for Science and Technology* *2014-2018*
Employment	*Position* *Employer* *Period*
Research and development projects over the last 5 years	*Name of project or research focus* *Period and any other information* *Partners, if applicable* *Amount offinancing* *None*
Industry collaborations over the last 5 years	*None*
Patents and proprietary rights	*Title* *Year*
Important publications over the last 5 years	*Selected recent publications from a total of approx.： 4* *Song Lixing, Zhang Kaida. (2024). Research on Rail Pressure Straightening Based on ANSYS. Journal of Agricultural Equipment and Vehicle Engineering, 62(02): 121-124+129.* *Zhang Kaida, Song Lixing. (2022). Temperature Field Analysis of Single-Pulse Laser Irradiation on Alumina Ceramics Based on COMSOL. China Water Transport, 22(22): 46-48.* *Wang Yan, Song Lixing, Liu Jianguo, et al. (2021). Development and Application of Experimental Teaching Platform for Hard and Brittle*

	Material Processing. Journal of Agricultural Equipment and Vehicle Engineering, 59(09): 23-26. *Guo Mingzhuang, Wang Yan, Song Lixing. (2021). Simulation Analysis of Temperature Field in Ultrasonic Composite Wire Saw Cutting of Monocrystalline Silicon. Journal of Agricultural Equipment and Vehicle Engineering, 59(03): 98-102.*
Activities in specialist bodies over the last 5 years	*Organisation Role Period* *None* *Membership without a specific role need not be mentioned*

Shan Yang

Name	*Shan Yang*		
Post	*Robotics Engineering Lecturer*		
Academic career	*Initial academic appointment* *Lect urer* *Tea chin g* *Assi stan t* *Master's Degree（Meas urement Technology & Instrumentation Engineering）* *Bachelor's Degree（Me asurement & Control Technology and Instruments University of Manitoba）*	*Institution* *Qingdao Hengxing University of Science and Technology* *Qingdao Hengxing University of Science and Technology* *Ketttering University* *University of Manitoba*	*Year* *2023* *2019* *2018* *2015*
Employment	*Position* *Lecturer* *Electrical R&D DesignEngineer*	*Employer* *Qingdao Hengxing University of Science and Technology* *Shandong Haomai Manufacturing Technology*	*Period* *2019.12-Present* *2018.09-2019.06*

	Co., Ltd.
Research and development projects over the last 5 years	*Provincial First-Class Undergraduate Program Development* *Automotive Service Engineering | Dec 2019 – Dec 2021* *Funding: ¥100,000 RMB | Shandong Provincial Department of Education* *Successfully applied for and established provincial-level accredited program* *Provincial First-Class Course Construction* *Automotive Electrical & Electronic Control Systems | Feb 2024* *University-Level Textbook Development* *3D Modeling and Simulation | Oct 2024* *Funding: Qingdao Hengxing University of Science and Technology*
Industry collaborations over the last 5 years	*Industry-Academia Integration Project* *Engineering Simulation Software | Beijing Yundao Manufacturing Technology Co., Ltd.*
Patents and proprietary rights	*Title* *Year* *(Utility Model) Railway Freight Car Traction Hook | 2024*
Important publications over the last 5 years	*Selected recent publications from a total of approx. (give total number):* *Shan Yang, Guo Jinsheng, Gai Jinhao, Gao Sibin. (2024).* *Teaching Reform and Innovation Research on Flipped Classroom Instruction for Practical Courses Based on "Major + Innovation" Competitions.* *Shanxi Science and Technology News, April 2024.*
Activities in specialist bodies over the last 5 years	*Organisation* *Role* *Period* *None* *Membership without a specific role need not be mentioned*

Qi Xiaoqian

Name	*Qi Xiaoqian*
Post	*Mechanical EngineeringLecturer*
Academic career	*Initial academic appointment Institution Year* *Lecturer Qingdao Hengxing University of Science and Technology 2017* *Master's Degree（Materials Processing Engineering） China University of Mining and Technology 2010* *Bachelor's Degree（Materials Science and Engineering） China University of Mining and Technology 2013*
Employment	*nitial academic appointment* *Institution* *Year* *Lecturer* *Qingdao Hengxing University of Science and Technology* *2014--Present*
Research and development projects over the last 5 years	University-Level Project: Elderly Assistance Chair Design (PI) | 2019 Funding: ¥3,000 RMB
Industry collaborations over the last 5 years	*Industry Collaboration: SMT Welding Technology Optimization Design* *XCMG Group*
Patents and proprietary rights	*Title* *Year* *(Utility Model): Elderly Assistance Chair* *2019*

Important publications over the last 5 years	*Selected recent publications from a total of approx. (give total number):3* *Qi Xiaoqian. (2022). Anti-Dry Burn Design and Application of Electric Auxiliary Heating Expansion Tank in Air Conditioning Water Systems. Science Association Forum, (1), 137.* *Qi Xiaoqian. (2023). New Approaches to 'Internet +' Welding Internship Teaching. Popular Science World, (4), 106.* *Qi Xiaoqian. (2023). Integrating Micro-lectures into Welding Classroom Teaching at Mechanical Engineering Colleges. Dossier, (5), 89.*
Activities in specialist bodies over the last 5 years	*Organisation Role Period* *None* *Membership without a specific role need not be mentioned*

Sun Huili

Name	*Sun Huili*		
Post	*Mechanical Engineering Lecturer*		
Academic career	*Initial academic appointment* *Lecturer* *Teaching Assistant* *Bachelor's Mechanical Engineering*	*Institution* *Qingdao Hengxing University of Science and Technology* *2023 Dezhou Vocational College of Science and Technology* *University of South China*	*Year* *2010* *2006*
Employment	*Position* *Engineer* *Engineer* *Full-timeLecturer*	*Employer* *Guangdong Midea Refrigeration Equipment Co., Ltd.* *Qingdao Haier Air Conditioner Electronics Co., Ltd. Qingdao Hengxing University of Science and Technology*	*Period* *2010-2015* *2015-2022* *2022 Present*
Research and development projects over the last 5 years	*None*		

Industry collaborations over the last 5 years	*None*
Patents and proprietary rights	*Title* *Year* *(Invention) Stop Valve for Air Conditioner and Air Conditioner Having the Same | 2016* *(Invention) Outdoor Unit | 2017* *(Invention) Centrifugal Impeller Assembly and Air Conditioner Containing the Same | 2022* *(Invention) Vibration Damping Device and Household Appliance Having the Same | 2023* *(Software Copyright) Bohr Resonance Simulation Experiment Software V1.0 | 2025* *(Utility Model) Tension-Adjustable String Vibration Experiment Apparatus | 2025* *(Utility Model) Force Measurement Tool for Magnetic Levitation Dynamics Experiment Apparatus | 2025*
Important publications over the last 5 years	*Selected recent publications from a total of approx. (give total number): XX* *None*
Activities in specialist bodies over the last 5 years	*Organisation* *Role* *Period* *None* *Membership without a specific role need not be mentioned*

Qi Yunshu

Name	*Qi Yunshu*		
Post	*Mechanical Engineering， Lecturer*		
Academic career	*Initial academic appointment* *Lecturer* *Master's Degree（Power Engineering）* *Bachelor's Degree（Building Environment and Energy Application Engineering）*	*Institution* *Qingdao Hengxing University of Science and Technology* *Ocean University of China* *Qingdao University of Technology*	*Year* *2022 Present* *2017 -2020* *2013 -2017*
Employment	*Position* *Lecturer* *Operation Manager* *Product Manager*	*Employer* *Qingdao Hengxing University of Science and Technology* *Dawn Time Information Consulting Co., Ltd.* *Qingdao Mobile Co., Ltd.*	*Period* *2022 Present* *2021 -2022* *2020 -2021*
Research and development projects over the last 5 years	*None*		
Industry collaborations over the last 5 years	*None*		

Patents and proprietary rights	*Title* *Year* *A Device for Collecting Gravitational Potential Energy and Unloaded Residual Energy of Automobiles* *2017*
Important publications over the last 5 years	*Selected recent publications from a total of approx. (give total number):2* *Qi Yunshu* *(1) Molecular Dynamics Simulation of Characteristics of the Nanodroplet Evaporation.* *(2) Laser Ablation of Crystalline Material with and without Water on Matertial Surface*
Activities in specialist bodies over the last 5 years	*Organisation* *Role* *Period* *None* *Membership without a specific role need not be mentioned*

Liu Juan

Name	*Liu Juan*		
Post	*Mechanical Engineering， Lecturer*		
Academic career	*Initial academic appointment*	*Institution*	*Year*
	Engineer	*Neodynamic (Qingdao) Environmental Technology Co., Ltd.*	*2020.12*
	Master's Degree（Mechanical Manufacturing and Automation）	*Shandong University of Science and Technology*	*2014.09～2017.06*
	Bachelor's Degree（Mechanical Design, Manufacturing and Automation）	*Shanxi Datong University*	*2010.09～2014.06*
Employment	*Position*	*Employer*	*Period*
	Mechanical EngineeringLecturer	*Qingdao Hengxing University of Science and Technology*	*Nov. 2024 - Present -Present*
	Mechanical Design Engineer	*Neodynamic (Qingdao) Environmental Technology Co., Ltd.*	*2018.09-2024.10*
	Computational Engineer	*Qingdao Huachuang Wind Energy Co., Ltd.*	*2017.07-2018.08*

Research and development projects over the last 5 years	*Shanghai Cigarette Factory* *New Dust Removal Equipment Project | Feb 2024 – Oct 2024* *Shanghai Aerospace Precision Workshop* *Dust Removal System Design | Apr 2023 – Oct 2024* *Shandong Haomai Group Workshop* *Dust Control Project | Oct 2022 – Apr 2023* *Jinluoshan Food Processing Plant* *Dust Collection System | Jun 2021 – Sep 2022* *Jiangsu Yiqing Automotive Facility* *Dust Removal Design | Jan 2020 – Jun 2021* *All projects executed at Neodynamic (Qingdao)*
Industry collaborations over the last 5 years	*None*
Patents and proprietary rights	*Title* *Year* *(Utility Model) Flexible Mobile Segmented Riveting and Stamping Device | 2017* *(Utility Model) Electric Scooter with Adjustable Auxiliary Wheel Mechanism | 2016*
Important publications over the last 5 years	*Selected recent publications from a total of approx. (give total number): XX* *None*
Activities in specialist bodies over the last 5 years	*Organisation* *Role* *Period* *None* *Membership without a specific role need not be mentioned*

An Tianxia

Name	An Tianxia		
Post	*Lecturer*		
Academic career	*Initial academic appointment* *Master's Management Science and Engineering* *Bachelor's Equipment Management*	*Institution* *Naval University of Engineering* *Naval University of Engineering*	*Year* *2013.09--2016.02* *1998.09-2002.06*
Employment	*Position* *Lecturer*	*Employer* *Qingdao Hengxing University of Science and Technology*	*Period* *Jul 2021 - Present*
Research and development projects over the last 5 years	*1. Curriculum Ideological-Political Project* *Course: Computer-Aided Drawing (CAD)* *Level: University* *Year: 2024*		
Industry collaborations over the last 5 years	*None*		
Patents and proprietary rights	*Title* *None*		*Year*
Important publications over the last 5 years	*Selected recent publications from a total of approx. (give total number): XX* *None*		
Activities in specialist bodies over the last 5 years	*Organisation* *None* *Membership without a specific role need not be mentioned*		

Han Bing

Name	*Han Bing*
Post	*Mechanical Engineering， Lecturer*
Academic career	*Initial academic appointment Institution Year* *Lecturer Qingdao Hengxing University of Science and Technology 2022* *Master's Industrial Design Engineering North China University of Technolog 2016* *Bachelor's Industrial Design Hebei Agricultural University 2013*
Employment	*Position：* *Employer：* *Period* *Lecturer* *Qingdao Hengxing University of Science and Technology* *Jan 2024 - Present* *Teaching Assistant* *Qingdao Hengxing University of Science and Technology* *2022.07-2024.01*
Research and development projects over the last 5 years	*1. Integrating Yellow River Culture into University Ideological Education (2022)* *University-level curriculum development project* *2. CNC System Experimental Platform Development (2024)* *University-level laboratory construction initiative*
Industry collaborations over the last 5 years	*None*

Patents and proprietary rights	*Title* *Year* *None*
Important publications over the last 5 years	*Selected recent publications from a total of approx.：1* *HAN Bing. (2023)* *Application of Intelligent and Digital Technologies in Automotive Industrial Design* *Automotive Testing Report, August 2023. [J]*
Activities in specialist bodies over the last 5 years	*Organisation* *Role* *Period* *None* *Membership without a specific role need not be mentioned*

Xu Yunyan

Name	*Xu Yunyan*		
Post	*Mechanical Engineering， Lecturer*		
Academic career	*Initial academic appointment* *Bachelor's Mechanical Engineering*	*Institution* *Harbin University of Science and Technology*	*Year* *2004*
Employment	*Position* *Lecturer*	*Employer* *Qingdao Hengxing University of Science and Technology*	*Period* *July 2022 - Present*
Research and development projects over the last 5 years	*None*		
Industry collaborations over the last 5 years	*TD-SCDMA Mobile Phone Project R&D* *Participated in system development and testing* *5G Communication Product R&D* *Contributed to next-generation communication device development*		
Patents and proprietary rights	*Title* None		*Year*
Important publications over the last 5 years	*Selected recent publications from a total of approx. (give total number):* XU Yunyan. (2025) Design of High-Efficiency Detection and Automated Collection Device for Marine Debris South Agricultural Machinery, 56(06): 211-213. [J]		

Activities in specialist bodies over the last 5 years	*Organisation* *Role* *Period* *None* *Membership without a specific role need not be mentioned*

Fu Chengjie

Name	*Fu Chengjie*		
Post	*Mechanical Engineering&Lecturer*		
Academic career	*Initial academic appointment* *Lecturer* *Master's Industrial Design Engineering* *Bachelor's Industrial Design*	*Institution* *Qingdao Hengxing University of Science and Technology* *Qilu University of Technology* *Weifang University*	*Year* *2022.08* *2016.09--2019.06* *2012.09--2016.06*
Employment	*Position* *Mechanical Engineering Designer* *Lecturer* *Lecturer*	*Employer* *Mueller Industries Inc.* *Jinwen Experimental High School* *Qingdao Hengxing University of Science and Technology*	*Period* *2019.08-2021.06* *2021.07-2022.07* *Aug 2022 - Present*
Research and development projects over the last 5 years	*None*		
Industry collaborations over the last 5 years	*None*		
Patents and proprietary rights	*Title* *None*	*Year*	

Important publications over the last 5 years	*Reference [1]* *CUI Hongwei, CHENG Xuelian, HE Rong, FU Chengjie, et al. (2024) Digital Course Reform Through Online-Offline Blended Teaching Shanxi Science and Technology News, 2024-03-19 (Section B06). [N]* *Reference [2]* *FU Chengjie, BI Yangang, SHEN Xuehui. (2020) Research on Perceptual Imagery of Eyeglass Frame Design Based on Kansei Engineering Packaging Engineering, 41(02): 269-275. [J]*
Activities in specialist bodies over the last 5 years	*Organisation Role Period* *None* *Membership without a specific role need not be mentioned*

Zhao Chengyuan

Name	*Zhao Chengyuan*		
Post	*Mechanical Engineering, Lecturer*		
Academic career	*Initial academic appointment* *Master's Mechanical Engineering* *Bachelor's Mechatronic Engineering*	*Institution* *Ocean University of China* *Shandong University of Technology*	*Year* *2021* *2015*
Employment	*Position* *Mechanical Engineer* *Full-time Lecturer*	*Employer* *Qingdao Hengxing University of Science and Technology* *Qingdao Hengxing University of Science and Technology*	*Period* *2021 -2024* *2024 - Present*
Research and development projects over the last 5 years	*Research and Application of Efficient Ulva Prolifera Harvesting Technology in Coastal Waters (2021)* *Designed vessel concept for Ulva prolifera harvesting* *Developed structural schematics for hull hydraulic power systems*		
Industry collaborations over the last 5 years	*Self-propelled Oil Skimmer Vessel Conceptual Design (2022)* *Created composite oil skimmer vessel design drawings* *Prepared technical specifications and documentation* *Edited product samples and compiled bidding documents*		
Patents and proprietary rights	*Title* *None*		*Year*
Important publications over the last 5 years	*Selected recent publications from a total of approx. (give total number): XX* *None*		

Activities in specialist bodies over the last 5 years	*Organisation* *Role* *Period* *None* *Membership without a specific role need not be mentioned*

Anning Li

Name	*Anning Li*		
Post	*Mechanical Engineering, Assistant Lecturer*		
Academic career	*Initial academic appointment* *Assistant Lecturer* *Master's Software Engineering* *Bachelor's Mechanical Manufacturing and Automation*	*Institution* *Qingdao Hengxing University of Science and Technology* *Huazhong University of Science and Technology* *Shandong Jiaotong University*	*Year* *2024* *2014* *2012*
Employment	*Position* *Lecturer* *Engineer* *Engineer*	*Employer* *Qingdao Hengxing University of Science and Technology* *Qingdao Guoshi Data Service Co., Ltd.* *Qingdao Lucent Communication Equipment Co., Ltd.*	*Period* *May 2024 - Present* *Jul 2021 - Mar 2024* *Apr 2015 - Jun 2020*
Research and development projects over the last 5 years	*University-Level Project: Development of Experimental Teaching Equipment and Reform of Teaching Models for Control Course Cluster Based on OBE Concept Institution: Qingdao Hengxing University of Science and Technology Year: 2023*		
Industry collaborations over the last 5 years	*None*		

Patents and proprietary rights	*Title* *Year* *None*
Important publications over the last 5 years	*Selected recent publications from a total of approx. (give total number):* *[1]Simulation and experiment of interface circuit of hydraulic piezoelectric energy harvester，Mechanical manufacturing and automation, 2025(accepted，1/5)* *[2]Research on cavitation suppression performance of water jet propulsion drainage nozzle，Hydro pneumatic and sealing, 2024(accepted，1/4)*
Activities in specialist bodies over the last 5 years	*Organisation* *Role* *Period* *None* *Membership without a specific role need not be mentioned*

Feng Yunhao

Name	*Feng Yunhao*		
Post	*Mechanical Engineering* *Lecturer*		
Academic career	*Initial academic appointment* *Materials and Chemical Engineering* *Mechanical Design, Manufacturing and Automation*	*Institution* Kunming University of Science and Technology *Zaozhuang University*	*Year* *2023* *2020*
Employment	*Position* *Lecturer*	*Employer* *Qingdao Hengxing University of Science and Technology*	*Period* *Sep. 2023 - Present*
Research and development projects over the last 5 years	National Natural Science Foundation of China (General Program) "Study on Electrocatalytic Reduction Mechanisms of Unsaturated Organic Compounds Regulated by Nanoporous Pt(Au)/C Cathodes Based on Crystal Plane Evolution Behavior" Grant No.: 51861017 Funding: ¥380,000 Period: Sep. 2020 - Jun. 2023		
Industry collaborations over the last 5 years	*None*		

Patents and proprietary rights	*Title :* *(Invention Patent) "A Method for Preparing Enhanced Porosity Pt-Based Alloy Membrane Catalysts"*	*Year :* *2022*
Important publications over the last 5 years	*Selected recent publications from a total of approx.: 3 (give total number):* 1. Feng Y, Yang B, Cai J, et al. De-Alloying Synthesis of Mesoporous Pt-Ti-Ce Hydrogen Evolution Nanocatalysts with Exposed High-Index Crystal Planes[J]. Journal of Materials Engineering and Performance, 2023, 32(21): 9787-9796. 2. Shang Y, Feng Y, Duan L, et al. Electrochemical de-alloying synthesis of porous AuTiCeOx/NC cyclohexene hydrogenation SPE membrane electrode by combination method[J]. Journal of Nanoparticle Research, 2024, 26(5): 82. 3. Wang S, Feng Y, Duan L, et al. Controlled Synthesis of Mesoporous Solid Polymer Electrolyte Au (Pt) NiCe/C Membrane Electrode for Electrocatalytic Hydrogenation[J]. Micromachines, 2025, 16(4): 436.	
Activities in specialist bodies over the last 5 years	*Organisation* *Shandong Materials Society*	*Role* *Council Member, Additive Manufacturing Branch*
	Period *Nov. 2024 - Present*	
	Membership without a specific role need not be mentioned	