

List of Staff Awards for Clinical Engineering



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1 Excellent courses (first-class courses, key courses, etc.)

Serial Number	Level	Course Name	Person in Charge	Team Members	Approval Time
1	Key courses in Shanghai	Principles and Applications of Life Support Devices	Chen Zhenglong,	Liu Yang	2024
2	Key courses in Shanghai	Intelligent Medical Control Technology	Yang Hui	Yang Gore, Peng Anmin, Guo Shijun	2024
3	Top tier undergraduate courses in Shanghai	Virtual simulation experiment on full process safety control of high-intensity ultrasound ablation diagnosis and treatment of malignant liver tumors	Li Xiaoou, Lv Dan	Yan Jiayong, Guo Shijun, Si Boyu, Hao Lijun	2021
4	Top tier undergraduate courses in Shanghai	Virtual simulation experiment on ventilator malfunction and emergency response under epidemic control	Pure Jade, Xu Jun	Shang Huaichao, Chen Zhenglong	2021
5	First class undergraduate courses at the university level	Engineering Mechanics	Lu Jie	Ding Hao, Yang Gore	2021
6	First class undergraduate courses at the university level	Professional English for Clinical Engineering Technology	L ü Dan		2022
7	First class undergraduate courses at the university level	Clinical Skills Studies	Qin Liang		2021
8	Key courses at the school level	Principles and Applications of Life Support Devices	L ü Dan	Cheng Haipin	2021
9	School level ideological and	Medical Electrical Safety	Liu Yang		2021

Shanghai University of Medicine & Health

political		
demonstration		
courses		

Sciences

2 Teaching Achievement Awards

Serial Number	Level	Reward Name	Awardee	Approval Time
1	provincial and ministerial level	Second Prize for Outstanding Cases in Deepening Reform of Higher Vocational Education in Shanghai	L ü Dan, Chen Zhenglong, Liu Yang, Shang Kun, Guo Shijun, Xu Jun, Shi Shouren, Zhang Xin	2022

3 Science and Technology Awards

1. CHEN Qingkui was awarded the third prize of "Shanghai Science and Technology Award" titled "Large-scale Cluster Parallel Architecture with Dynamic Double-loop Structure" in 2015.

4 Excellent Teaching Materials and Textbooks

- 1. "Introduction to Biomedical Materials", published by Tongji University Press in 2016, Compiled by: Jie Lyu, Jing Cheng.
- 2. "Maintenance of Hemodialysis Equipment", published by China Labor and Social Security Press in 2022. Compiled by: Jun Xu.
- 3. "Application and Design of Medical Instruments", published by Science Press in 2017. Compiled by: Chunyu Shan.
- 4. "Introduction to Principles and Structures of Medical Therapeutic Devices (2nd Edition)", published by Shanghai Jiao Tong University Press in 2016. Compiled by: Haiping Cheng.



5 Examples of SCI Paper Published

Serial Number	Author	Title	Journal	Time
1	Jun Ai	An improved robust finite-time dissipative control for uncertain fuzzy descriptor systems with disturbance	International Journal of Systems Science	2017
1	Lin Xiangde; Sun Wenwen; Yao Wanchen (Xue); Wang Zhonglin (Outer); Sun Qijun (Outer)	Piezotronic neuromorphic devices: principle, manufacture, and applications	International Journal of Extreme Manufacturing	2024
2	Promise (external); Lin Xiangde; Sun Qijun (Outer)	Sustainable paper electronics and neuromorphic paper chip	Nanotechnology	2024
3	Lin Xiangde; Mo Yanhong (Xue); Dai Yuhang (Xue); Yan Yuzhong; Zeng Dongdong; Yang Hui	The layer-by-layer assembled ERGO+/ERGO- multilayer modified electrode for sensitive detection of dopamine	Materials Research Express	2024
4	Liu Yubo; Chen Xiaohong (external); Lin Xiangde; Yan Jiayong; Yu Dengguang (outside); Liu Ping (external); Yang Hui	Electrospun multi-chamber core–shell nanofibers and their controlled release behaviors: A review	WILEY INTERDISCIPLINARY REVIEWS-NANOMEDICIN E AND NANOBIOTECHNOLOGY	2024
5	Yao Wanchen (Xue); Lin Xiangde; Yang Hui	Pursuing superhydrophobic flexible strain sensors: from design to applications	Advanced Materials Technologies	2024
6	Jiao Haishuang (external); Lin Xiangde; Wang Zhonglin (Outer); Sun Qijun (Outer)	Thermal insulating textile based triboelectric nanogenerator for outdoor wearable sensing and interaction	Nano Energy	2024
7	Dai Chen (external); Lin Xiangde; Chen Yu	Mesoporous ternary nanozymes with anti-senescence and anti-inflammation activities for atherosclerosis management	Advanced Functional Materials	2024



	1	Medicine & Health Sciences		
	(external); Zhang			
	Bo (external)			
8	Yao Wanchen (Xue); Yan Yuzhong; Sun Jianlei (external); Sun Wenwen; Cheng Jing; Zhao Hui; Xie Meihua; Sun Qijun (external); Yellow steel; Lin Xiangde	Mechanically Durable Superhydrophobic Strain Sensors with High Biocompatibility and Sensing Performance for Underwater Motion Monitoring	ACS Applied Materials & Interfaces	2024
9	Zhao Hui	Torsional failure analysis of C/SiC and SiC/SiC combined CMC torque tube	PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART L-JOURNAL OF MATERIALS-DESIGN AND APPLICATIONS	2024
10	Lin Xiangde; Sun Qijun (Outer)	Electric-double-layer-gated 2D transistors for bioinspired sensors and neuromorphic devices	International Journal of Smart and Nano Materials	2024
11	Wang Yifei (external); Lin Xiangde; Wang Zhonglin (Outer); Sun Qijun (Outer)	Tribotronic vertical field-effect transistor based on van der Waals heterostructures	Advanced Functional Materials	2024
12	Cheng Jing; Sun Wenwen; Zeng Dongdong; Lin Xiangde	Tetrahedral DNA–mediated biomineralization of calcium carbonate nanoparticles for pH? responsive drug delivery	JOURNAL OF NANOPARTICLE RESEARCH	2023
13	Tu Huating; Li Xiaoou; Lin Xiangde; Lang Chenhong (external); Gaoyang (Outer)	Washable and Flexible Screen-Printed Ag/AgCl Electrode on Textiles for ECG Monitoring	Polymers	2023
14	Zhou Chuanqing; Yang Kun (external); Lu Yufei (Outer)	NRNet: System for recommending referrals for community screening of diabetic retinopathy based on deep learning	Experimental Biology and Medicine	2023
15	Sun Wenwen; Xu Qinchen (Xue); Sun Jiwei (Xue); Lin	Design and Development of Biosensors for Progesterone Detection	Journal of Sensors	2023



_	Xiangde; Pan	Medicine & Health Sciences			
	Hongzhi				
16	Zhao Hui; Zhang	A novel and predictive process of manufacturing 3DN C/SiC torque	Material research express	2023	
10	Jiaxin (external)	tube	Waterial research express	2023	
	Ren Liujie				
	(external); Yu Yi;				
	Zhang Yuheng				
	(external); Liu				
	Xindong (external);				
	Sun Zengjun	Three-dimensional finite element	Biomechanics and Modeling		
17	(foreign); Yao	analysis on cochlear implantation	in Mechanobiology	2022	
	Wenjuan (external);	electrode insertion	in weenanoolology		
	Zhang Tianyu				
	(external); Wang				
	Cheng (external);				
	Li Chenlong				
	(Outer)				
	Ying Na (Xue); Lin				
18	Xiangde; Xie	Effect of surface ligand modification on the properties of	Colloids and Surfaces B:	2022	
10	Meihua; Zeng	anti-tumor nanocarrier	Biointerfaces		
	Dongdong				
	Ximeng Feng				
	(external); Zi Jin				
	(external); Zixia		Biomedical Optics Express	2022	
	Zhou (external);				
	Mengdi Gai				
	(external); Chunxia	Retinal oxygen kinetics imaging			
19	Jiang (external);	and analysis (ROKIA) based on the			
	Yicheng Hu	integration and fusion of structural-funcitonal imaging			
	(external); Yanye				
	Lu (external);				
	Jinying Li				
	(external); Qiushi				
	Ren (external);				
	Zhou Chuanqing				
	Sun Wenwen; Lv	Highly durable superhydrophobic			
20	Kai (external); Lou	surfaces based on a protective	Motorials Dassarch Evens	2022	
20	Yisha (student);	frame and crosslinked	Materials Research Express	2022	
	Zeng Dongdong; Lin Xiangde	PDMS-candle soot coatings			
		Research progress on			
21	Xia Pengpeng	naphthalimide based optical probes	Organic Chemistry	2022	
21	(Xue); Chen	for monitoring the physicochemical		2022	
	Jiangtai (Xue); Shi	properties of microenvironments	s of microenvironments		



	<u> </u>	and active sulfur substances			
	Gaofan (Xue);	and active ballar substitutes			
	Zhang Mengmeng				
	(Xue); Yao				
	Wanchen (Xue);				
	Lin Xiangde; Zeng				
	Dongdong				
	Sun Wenwen; Huo				
	Juntao (external);	Influence of Meteorological Factors			
22	Fu Qingyan	and Chemical Processes on the	Atmosphere	2022	
22	(external); Zhang	Explosive Growth of PM2.5 in	rumosphere	2022	
	Yuxin (Xue); Lin	Shanghai, China			
	Xiangde				
	He Xiaoyan				
	(external); Li Hui				
	(Xue); Liu Sisi	Synthesis of a Single-Stranded			
22	(Xue); Li Yue; Lin	DNA Aptamer Modified		2022	
23	Xiangde; Zheng	Near-infrared, Water-Soluble Fluorophore for Lung Cancer Cell	ChemistrySelect	2022	
	Haoyang (external);	Imaging.			
	Zhou Zhaoli; Zeng				
	Dongdong				
24	Chen Zhenglong	Effects of the Lower Airway Secretions on Airway Opening Pressures and Suction Pressures in Critically Ill COVID-19 Patients: A Computational Simulation	Annals of Biomedical Engineering	2021	
25	Chen Zhenglong; Hu Zhaoyan	Potential effect of pulmonary fluid viscosity on positive end-expiratory pressure and regional distribution of lung ventilation in acute respiratory distress syndrome	clinical biomechanics	2021	
	Chen Zhenglong;	,			
	Bell ringing				
	(outside); Luo	Determination of Rheology and Surface Tension of Airway Surface			
26	Yuzhou; Deng	Liquid: A Review of Clinical	Respiratory Research	2020	
	Linhong (external);	Relevance and Measurement			
	Hu Zhaoyan; Song	Techniques			
	Yuanlin (Outer)				
	Ding Hao; Zhang				
	Ying (Xue); Liu				
	Yujia (Xue); Shi	Simulated coronary arterial			
27	Chunxun (Xue);	hemodynamics of myocardial	Rev Cardiovas Med	2020	
	Nie Zhichao (Xue);				
	Chen Zehua (Xue)				
	Ding Hao; Zhang	A 1 · 637 1 37 · · ·			
28	Ying (Xue); Liu	Analysis of Vascular Mechanical Characteristics after Coronary	BioMed Research	earch 2020	
20	Yujia (Xue); Shi	De anadalala Chand Investigation International		2020	
	1 ujia (Auc), Sili	_ ^			



Chunxun (Xue);		
Nie Zhichao (Xue);		
Liu Haoyu (student)		



6 Patents (Invention Patents)

Serial Number	Name	Patent Type	Inventor	Time
1	A polysaccharide crosslinked antibacterial film	Invention Patent	Lin Xiangde; Zeng Dongdong; Chen Yuzhu	2024-01-30
2	A cell culture device and method under the correlation of pressure and unidirectional strain	Invention Patent	Ding Hao; Wei Ping	2024-01-23
3	Inverted defibrillation pulse generator	Invention Patent	Pure jade; Li Ping	2023-10-24
4	A four-bar linkage venipuncture advancement and retraction needle execution device with needle picking action	Invention Patent	Ding Hao; Zhuang Yi; Kan Mengfei; Xia Dongyang; Ding Siji; Liu Haoyu	2022-07-15
5	A wall coronary artery circumferential stress in vitro simulation system	Invention Patent	Ding Hao; Liu Yujia; Zhang Ying	2022-07-12
6	Ultra low voltage energy storage defibrillator	Invention Patent	Pure jade; Li Ping; Zhang Xingfang; Pan Ling; Gu Wangjing; Tang Shiting	2021-09-21
7	A detachable and autonomously movable multifunctional nursing bed device	Invention Patent	Ding Hao; Shi Chunxun; Liu Haoyu	2021-06-15
8	A two-dimensional ultrasonic guide cane based on voltage lattice stimulation	utility model	Cheng Hai relied on; Wang Yan; Pure jade	2020-08-18
9	A two-dimensional ultrasonic guide cane based on electric current lattice stimulation	utility model	Cheng Hai relied on; Wang Yan; Pure jade	2020-07-31
10	A two-dimensional ultrasonic guide cane based on multi-point vibration frequency transmission information	utility model	Cheng Hai relied on; Wang Yan; Pure jade	2020-07-31