



name	Zhang wei	gender	man	Date of birth	1973.09	job title	Professor, senior engineer
Highest academic qualificat ions	graduat e student	Highest degree	doct or	mailbox	hnweiz	hang@1	63.com
Education			1		1		
1991.09-199	94.06, Depa	artment of Url	ban Con	struction, Huna	an College of	Urban	
Constructio	on, Water S	Supply and Dr	ainage F	Ingineering			
2002.09-200	05.06, Mas	ter of Enginee	ring, Scł	nool of Civil En	gineering, Hu	ınan Uni	versity
2006.09-201	11.06, Ph.D	. in Municipa	l Engine	ering, School o	f Civil Engine	ering, H	unan
University							
Scientific r	esearch and	d education re	form pro	ojects			
[1] 2024 Na	tional Nat	ural Science F	oundatio	on of China (52	370074, 520,0	000 RMB	)
[2].2020 Na	tional Nat	ural Science F	oundatio	on of China Ge	neral Project	- Study o	on the
Mechanism	of Modifi	ed Shell Powd	er/Ce-N-	·TiO2 Adsorpti	on and Photo	catalytic	
Degradatio	n of Typica	al Dissolved O	rganoph	osphorus (4207	71122, 550,000	) RMB, I	Principal
Investigato	r)						
[3]. Collabo	orative Edu	ication Projec	t of the I	Department of 1	Higher Educa	tion of t	he Ministry
of Educatio	on: Constru	iction of Scho	ol-Enter	prise Cooperat	ion Innovatio	n and	
Entreprene	urship Bas	se for Water S	upply an	d Drainage Sci	ience and Eng	gineering	in Local
Universities	s under the	Background	of Engin	eering and Nev	w Engineering	g (201902	2099006,
10,000 yuar	n, host)						
[4].2015 Hu	ınan Provi	ncial Natural	Science l	Foundation Ge	neral Project	- Resear	ch on the
Degradatio	n of Organ	ophosphorus	Pesticide	e Wastewater b	y Coagulatio	n and	
Precipitatio	on-MWNTs	s/TiO2 Photoc	atalytic	Process (2015J.	J2022, 40,000	RMB, P	rincipal
Investigato	r)						
[5].2013 Hu	ınan Provi	ncial Educatio	on Scienc	e "Twelfth Fiv	e-Year Plan"	Project -	Reform
and Applic	ation of Pr	actical Teachi	ng Platfo	orm for Engine	ering Majors	in Colleg	ges and



Universities Based on the Education and Training of Outstanding Engineers (10,000 RMB, Host)

[6]. 2012 "Twelfth Five-Year" National Science and Technology Support Program Project Sub-project - Integration of Groundwater Source Monitoring Technology in Villages and

Towns (2012BAJ24B03-2, 370,000 RMB, Principal Investigator)

2011 Hunan Provincial Department of Education Key Scientific Research Project -

Phosphoric Acid Activation-Microwave Pyrolysis Method to Optimize the Preparation of

Sludge Adsorption Materials (11A022, 80,000 RMB, Principal Investigator)

[8]. Hunan Provincial Scientific Research Program - Functionalization of Carbon

Nanotube/TiO2 Composites and Their Photodegradation of Polychlorinated Benzene in

Water (40,000 RMB, Principal Investigator)

Scientific papers

[1].ZHANG\_Wei,LI\_Liwu,ZHANG\_Qian,XU Shunkai,ZHANG\_Hua. Photocatalytic

degradation of typical chlorobenzene compounds by MWNTs/TiO2[J], Journal of

Environmental Science, 2012, 32(03), 631-639

[2].<u>ZHANG</u>Wei,SHI\_Zhou,ZHANG\_Qian,XU\_Shunkai,ZHANG<u>Hua</u>. Synergistic effect of MWNTs/TiO2 adsorption on 1,2,3-trichlorobenzene and photocatalytic degradation[J],\_\_\_\_\_\_<u>Journal of Hunan University (Natural Science Edition)</u>, 2012, 39(01), 71-76

[3]. Zhang Wei, Shi Zhou, Zhang Qian, Zhang Hua, Xu Shunkai. Photocatalytic degradation of 1,2,4-trichlorobenzene by carbon nanotube-supported TiO2[J], Environmental Science, 2011, 32(07), 1974-1980.

[4]. Zhang Wei, Shi Zhou, Zhang Qian, Zhang Hua, Xu Shunkai. Effect of Preparation Process Conditions of Composite Photocatalysts (TiO2/MWNTs) on Photocatalytic Degradation Kinetics of Methyl Orange[J], Environmental Chemistry, 2011, 30(02), 549-554.
[5]. Shi Zhou, Zhang Qian, Zhang Wei, Xu Shunkai, Zhang Hua. Photocatalytic degradation of 1,2,3-trichlorobenzene by microwave-modified MWNTs/TiO2 composites[J], Environmental Science, 2012, 33(11), 3840-3846.

[6]. Zhang Wei, Yang Liu, Li Liwu, Xu Shunkai, Zhang Hua. Preparation of sludge adsorbents by phosphoric acid activation-microwave pyrolysis[J]. Chinese Journal of



Environmental Engineering,2013,7(07):2699-2704.)

[7]. Zhang Wei, Yang Liu, Jiang Haiyan, Wang Caiwen, Wang Aihe, Zhou Jun.

Characterization of sludge activated carbon and its adsorption characteristics of

Cr(VI.)[J].Chinese Journal of Environmental Engineering,2014,8(04):1439-1446.)

[8]. Zhang Wei, Wang Aihe, Jiang Haiyan. Adsorption of methylene blue by sulfuric

acid-activated municipal sludge[J].Chinese Journal of Environmental

Engineering,2015,9(08):3790-3794.)

[9]. Zhang Wei, Wang Jue, Wang Aihe. Adsorption characteristics of MWNTs and

MWNTs/TiO2 on dimethoate in water[J].China Water Supply and

Drainage,2017,33(11):82-85+90.)

[10]. Zhang Wei, Wang Jue, Wang Aihe. Study on influencing factors and kinetics of

MWNTs/TiO2 photocatalytic degradation of oxymethoate pesticides[J].Chinese Journal of Water Ecology,2017,38(06):27-33.)

[11] Zhang Wei, Liang Zhe, Wang Aihe, et al. Optimized preparation of modified oyster shell powder and its adsorption performance on glyphosate[J].Industrial Water

Treatment,2022,42(03):90-97.)

[12].ZHANG Wei, YOU Qizheng, SHU Jinkai, et al. Modified oyster shell

powder/Ce-N-TiO2 adsorption-photocatalytic degradation of glyphosate[J].Chinese Journal of Environmental Engineering,2023,17(05):1398-1408.)

[13] Zhang Wei, Yu Long, Shu Jinkai. Performance and mechanism of photocatalytic degradation of oxytetracycline by MWNTs/Bi2WO6-TiO2[J].Water Purification Technology,2023,42(03):81-87+142.

[14] Wei Zhang, Zhe Liang\*, Hai Lin, Jinkai Shu, and Aihe Wang. Adsorption Performance of Glyphosate on Modified Shell Powder/Ce-N-TiO2, E3S Web of Conferences,2022,350, 01016.

[15] Wei Zhang, Nan Li, Caiwen Wang, Guangchao Li, Julong Sun and Shumin Zhu\*.
Elimination of micropollutants by the solar/chlorine process: contribution of reactive species and formation risk of NDMA, Environ. Sci.: Water Res. Technol., 2022, 8, 1252-1260.
[16] Zhang W, You Q, Shu J, et al. Optimization of Preparation Conditions of Modified



Oyster Shell Powder/Ce-N-TiO2 by Response Surface Methodology (RSM) [J]. Journal of EnvironmentalProtection, 2023, 14(01): 16-31.

[17] Zhang W, You Q, Shu J, et al. Photocatalytic degradation of glyphosate using Ce/N

co-doped TiO2 with oyster shell powder as carrier under the simulated fluorescent lamp [J].

Frontiers in Environmental Science, 2023, 11.

**Educational Reform Papers** 

[1]. Zhang Wei, Wang Aihe, Jiang Haiyan. Reform and thinking of "student-centered" talent training system in colleges and universities[J].Education and Teaching Forum,2020(47):161-164.)

[2]. Zhang Wei, Wang Aihe. A preliminary study on the reform of internship teaching in water supply and drainage science and engineering for the training of outstanding engineers[J].Science & Technology Information,2013(20):170-171.)

[3]. Zhang Wei, Zhang Chun, Li Liwu, Wang Aihe. Research on the construction of professional practice teaching platform for water supply and drainage engineering[J].Science and Technology Innovation Herald,2012(13):185.)

patent

National Utility Model Patent: Suspended Photocatalytic Reactor (Patent No.: ZL201520404733.1);[2].National Utility Model Patent: A Suspended Photocatalytic Reactor (Patent No.: ZL201520405045.7)[3].National Utility Model Patent: Coagulation Precipitation-Photocatalytic Combined Treatment Device (Patent No.: ZL201720780350.3)[4]. National Invention Patent: Preparation method of bismuth tungstate composite photocatalyst (application number: 202011374423.1)

Scientific research awards

[1]. Presided over the third prize of Hunan Science and Technology Progress Award -

Research and application technology of adsorption and photodegradation of multi-walled

carbon nanotube-supported TiO2 to chlorobenzene (2016)

**Teaching awards** 

[1]. Presided over and won the third prize of Hunan Provincial Teaching Achievement Award - Research and Practice of Water Supply and Drainage Science and Engineering



Professionals Training-oriented Talent Training Model Guided by "Engineering Ability Output" (2016)

[2]. Presided over the first prize of the Teaching Achievement Award of Hunan City

University - the construction and practice of the "12345" training system for the

professional practice ability of water supply and drainage science and engineering with the

project as the carrier (2019)

Publication of monographs/books

Study on the adsorption and photodegradation of chlorobenzene by multi-walled carbon

nanotube-supported TiO2, Hunan Science and Technology Press, 2016.03 (monograph, first author)

[2]. Water Analytical Chemistry, Chemical Industry Press, 2014.09 (textbook,

editor-in-chief)

[3]. Water Pump and Pumping Station, Peking University Press, 2013.10 (Textbook,

Editor-in-Chief)

Engineering background

[1].Presided over the completion of the construction drawing design of the waterworks and supporting pipe network in the Jindong Management Area (Jindong Management Area Urban Construction Investment and Development Co., Ltd., 2016)[2].Presided over the completion of the site selection demonstration report of the second water source in Yiyang City (Yiyang Planning Bureau, 2017)

[3].Presided over the completion of the construction drawing design of the Taoyi Road water supply pipeline project (Taojiang County Water Supply Company, 2018)[4].Presided over the completion of the special planning for drainage and flood prevention in Yiyang City (Yiyang City Planning Bureau, 2018)[5].Presided over the completion of the feasibility study report on emergency water source in Yiyang City (Yiyang Housing and Urban-Rural Development Bureau, 2018)[6]Presided over the completion of the construction drawing design of the water supply pressurization station and supporting pipe network on Jinpen North Road, Taojiang County Economic Development Zone (Taojiang County Water Supply Company, 2020)



# Appendix D-2: Curriculum Vitae of Faculty in Water Supply and Drainage



<u>Appendix D-2:</u> Science and F		itae of Faculty	y in Water	r Supply and L	<u>Drainage</u>	HUMPH CITY UNITED	
name	ZHANG Chun	gender	man	Date of birth	1979.12	job title	professo r
Highest academic qualificatio ns	graduate student	Highest degree	doctor	mailbox	yuand	2332@168	3.com
Education							
	.06, Ph.D., Sch	ool of Metallu	rgy and E	nvironment. (	Central South	Universi	itv
	.07, M.S., Scho						
	.07, B.S., Scho		, ,,	·		hina	
	earch and educ						
Nanocore-3 Wastewate [2]. 2016 Out and Kinetics Provincial De [3]. 2017 Hur Engineering International [4]. 2017 Hur Strategy of "	atural Science Shell Fe3O4 ( r, Hunan Provi standing Youth of Sulfur Dioxi epartment of E nan Provincial Construction F Certification, nan Provincial Engineering-In Drainage Science	Composites fo incial Departm Project of Hu ide Reduction ducation, 16B0 Teaching Refo Research for W [2017] No. 452 Education Pla idependent Th	or the Ra nent of Sci unan Prov and Decor 049, Princ 049, Princ rm Resea 7ater Supp 2, Principa nning Pro inking-So	emoval of He ience and Tech incial Departm mposition of Z ipal Investigat rch Project: E bly and Draina al Investigator, ject: Research lution" for Stu	eavy Metal mology, 2017 nent of Educ inc Cadmiun tor; (Closed) ngineering E ge Science an , (completed) on the Abili udents Major	Antimony (JJ2020, F ation: Me n Ferrita ducation nd Engine ty Cultiva ring in Wa	y in Acidic PI; (Closed) echanism te, Hunan and eering for
Scientific pap	oers						
[1]. Environn	nental Activity om Zinc Hydr	C					C
	-1761, 2020.05,		•				
	ion performan						nces, 9(54):
	53, 2019.09, SC						
	ic seeds ass	Ū		-			solution in



hydrometallurgical process, 《Transactions of the Indian Institute of Metals》, 72(10):2591-2597, 2019.05, SCI source journal, 4 districts of Chinese Academy of Sciences, ranked 1st;

- [4]. Reductive Clean Leaching Process of Cadmium from Hydrometallurgical Zinc Neutral Leaching Residue Using Sulfur Dioxide, Journal of Cleaner Production, 113:910-918, 2016.02, SCI Source Journal, Chinese Academy of Sciences Zone 1, Ranked No. 1;
- [5]. Study on the mechanism and kinetics of zinc leaching in leaching slag in zinc smelting, Chinese Journal of Nonferrous Metals, 26(1): 197-203, 2016.01, EI source journal, key journal of self-science, ranked 1st;
- [6]. Study on the mechanical and chemical stability behavior of lead in lead-containing smelting waste slag, Journal of Process Engineering, 15(6): 1034-1038, 2015.12, CSCD, a key journal of self-science, ranked 1st;
- [7]. Reductive acid leaching of cadmium from zinc neutral leaching residue using hydrazine sulfate, Transactions of Nonferrous Metals Society of China, 25(12):4175-4182, 2015.10, SCI source journal, CAS 2, Ranked No. 1;
- [8]. Mechanical Activation-assisted Reductive Leaching of Cadmium from Zinc Neutral Leaching Residue Using Sulfuric Dioxide, 《The Journal of The Minerals, Metals & Materials Society》, 67(12) :3010-3021, 2015.10, SCI Source Journal, Chinese Academy of Sciences Zone 3, Ranked 1st;

**Educational Reform Papers** 

- Research on the cultivation of complex engineering problem-solving ability of students majoring in water supply and drainage science and engineering, Journal of Higher Education, 27:169-172, 2020.08, Educational Reform Paper, ranked 1st;
- [2]. Teaching Reform of Water Quality Engineering Based on OBE Concept in the Context of Engineering Education, Sichuan Cement, 04: 292+284 pages, 2020.04, Educational Reform Paper, ranked 1st;
- [3]. Reflections on Engineering Ethics Education in Water Supply and Drainage Science and Engineering Based on Engineering Education Certification, Modern Property, 04: 130-131, 2020.04, Educational Reform Papers, Ranked No. 1;
- [4]. Water Supply and Drainage Science and Engineering Based on Professional Certification,



 Science and Engineering

 Engineering Education and Engineering Ability Training and Practice, Journal of Higher

 Education, 17:155-156+159, 2019.08, Educational Reform Papers, ranked 1st;

 patent

 not

 Scientific research awards

 not

 Teaching awards

 Research and Practice on the Training Model of Water Supply and Drainage Science and Engineering Professionals Oriented by "Engineering Ability Output", Provincial Teaching Achievement Award of Higher Education in Hunan Province, Provincial Third Prize, Ranked Second, Hunan Provincial Department of Education, 2016.07;

- [2]." Construction and Innovation of Engineering and Innovation Compound Talent Training Model for Water Supply and Drainage Science and Engineering Characteristic Major, First Prize at the University Level, Ranked Second, Hunan City University, 2015.10;
- [3]." Construction and Practice of '12345' Practical Teaching System for Water Supply and Drainage Science and Engineering Major", First Prize at the University Level, Ranked Third, Hunan City University, 2019.03;

Publication of monographs/books

not

**Engineering background** 

[1]. Construction drawing design of water supply pipe network of Lingling Avenue, Lingling

District, Yongzhou City, 2017, main completer;

[2]. Construction drawing design of water supply plant in Mengquan Town, Changde, 2018, main completer.



	e and Engineerin		<i>.</i>			Jan	TH CITY UNIVERSIT			
name	Wang Aihe	gender	man	Date of birth	1982.03	1982.03 job professo title r				
Highe st acade mic qualif icatio ns	graduate student	Highest degree	docto r	mailbox	hnwaih	e409@1	63.com			
Educati	on									
2001.09	-2005.07, Departi	ment of Biologi	ical and (	Chemical Eng	ineering, Anl	hui Univ	ersity of			
Enginee	ering and Technol	logy, Biotechno	ology, B.S	5						
2005.09	-2008.06, M.S., D	epartment of U	U <b>rban C</b> o	onstruction, U	niversity of S	South Cl	iina			
2013.09	-2017.11, Ph.D., N	Aetallurgical a	nd Envii	onmental Eng	gineering, Scl	hool of N	Aetallurgy			
and Env	vironment, Centr	al South Unive	ersity							
Scientif	ic research and e	ducation reform	m projec	ts						
Genera	Project of the D	epartment of E	ducation	1: Research or	the adsorpt	ion of ar	nmonia			
nitrogei	ı in landfill leach	ate by modified	d peat re	sin particles (1	15C0260), 20	15-2020	, Project			
Leader.										
Key Pro	oject of the Depar	tment of Educ	ation: O	ptimal Prepar	ation of Mag	netic Te	rnary			
Metal C	Composite Oxide ]	Particle Adsorl	bents and	l Research on	the Mechani	ism of E	fficient			
Deep Fl	uoride Removal (	(20A089), 2020	-2023, P	ĺ.						
[3]. Hur	ıan Provincial Ed	lucation Scienc	e Planni	ng Leading G	roup Educat	ion Plan	ning			
Project	Construction an	d Practice of S	POC Ble	ended Teachin	g Model for `	Water S	upply and			
Drainag	ge Science and En	gineering Prof	fessional	Courses in Lo	ocal Colleges	and Uni	versities			
under tl	he Background of	f Gold Course	(XJK200	CGD068), 202	0-2022,  Proje	ct Lead	er.			
[4]. Coll	laborative Educa	tion Project of	the Depa	artment of Hig	gher Educatio	on of the	Ministry			
of Educ	ation: Research o	on the Improve	ement of	Engineering <b>P</b>	Practice Abili	ty of Tea	chers of			
Water S	Supply and Drain	age Science an	d Engine	ering in Loca	l Universities	s under t	he			



Background of Engineering Accreditation (201902099006), 2020-2021, Project Leader. [5]. Education Reform Project of the Teaching Guidance Subcommittee of Water Supply and Drainage Science and Engineering in Colleges and Universities of the Ministry of Education: Practical Teaching Reform of Water Supply and Drainage Science and Engineering in Local Colleges and Universities under the Background of Engineering Accreditation (GPSJZW2019-02), 2019-2021, Project Leader.

[6]. Hunan Provincial Natural Science Foundation Project: Preparation of Biological Template Method and Mechanism of Sulfate Removal of Ternary Metal Composite Oxide Porous Particle Materials (2021JJ50152), 2021.01-2024.12, PI.

Scientific papers

[1]. Wang Aihe; \*Zhou Kanggen; Liu Xing; Liu Fang; Zhang Chun; Chen Quanzhou,

Granular tri-metal oxide adsorbent for fluoride uptake: Adsorption kinetic and equilibrium studies, Journal of Colloid and Interface Science, 2017, 505: 947-955.

[2]. Wang Aihe, Zhou Kanggen(\*), Liu Xing, Liu Fang, Chen Quanzhou, Development of Mg-Al-La tri-metal mixed oxide entrapped in alginate for removal of fluoride from wastewater, RSC Advances, 2017,7(50): 31221-31229.

[3]. Wang Aihe, Zhou Kanggen(\*), Chen Wei, Zhang Chun, Liu Xing, Chen Quanzhou, LiuFang, Adsorption of fluoride by the calcium alginate embedded with Mg-Al-Ce trimetal

oxides, Korean Journal of Chemical Engineering, 2018, 35(8): 1636-1641.

Wang Aihe, Zhou Kanggen(\*), Liu Xing, Chen Quanzhou, Liu Fang, Preparation of

PMg-Al-Me(Me=La,Ce,Zr) Composite Oxide and Its Fluoridation Removal Properties,

Environmental Science, 2016, 37(12): 4874-4881.

[5]. Aihe Wang, Kanggen Zhou(\*), Xing Liu, Quanzhou Chen, Fang Liu, Defluorination properties of MgO-LDH synthesized by double-drop co-precipitation, Chinese Journal of Nonferrous Metals, 2017, 27(04): 869-875.

[6]. Wang Aihe, Zhang Chun, Zhang Wei, Deng Yumei. China Water Supply and Drainage,2016,32(17):81-84.)

**Educational Reform Papers** 

[1]. Wang Aihe, Li Hao, Zhang Chun, Jiang Haiyan. Research on the reform of practical

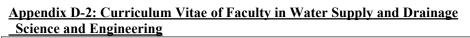


teaching in local undergraduate colleges under the background of new engineering: A case study of water supply and drainage science and engineering of Hunan City University[J].Sichuan Cement,2020(04):294.) [2]. Wang Aihe, Zhang Wei, Li Hao, Jiang Haiyan, Zhang Chun. Construction of practical teaching system of water supply and drainage science and engineering based on engineering quality training[J].Industry and Science and Technology Forum, 2020, 19(04): 242-243.) [3]. Wang Aihe, Zhang Wei. Experimental teaching reform of water supply and drainage science and engineering for the training of outstanding engineers[J].China Market,2016(15):62-63.) [4]. Wang Aihe. Reflections on the construction of laboratory management team in Xinsheng local undergraduate colleges[J].Higher Architectural Education,2015,24(03):160-162.) [5]. Wang Aihe, Zhang Wei. Research on the teaching reform of "water quality engineering experiment" course for the excellence plan[J].China Electric Power Education,2013(26):82+84.) [6]. Wang Aihe, Zhang Chun, Zhang Wei. Guangzhou Chemical Industry,2011,39(24):132-133.) patent [1]. Wang Aihe, Zhang Chun, Zhang Wei. Preparation system of sludge-based adsorbent for treating lead-containing wastewater [P]. Hunan: CN205462267U, 2016-08-17. Scientific research awards [1]. Zhang Wei. Research and application technology of adsorption and photodegradation of

multi-walled carbon nanotube-supported TiO2 to chlorobenzene, third prize of Hunan

Science and Technology Progress Award, 2016, ranked third

**Teaching awards** 





[1]. The third prize of Hunan Provincial Teaching Achievement Award----- Research and

Practice of the Training Model of Water Supply and Drainage Science and Engineering

Professionals Oriented by "Engineering Ability Output", 2016, ranked fourth.

[2]. In 2017, he was awarded the honorary title of Outstanding Teacher of Hunan City University.

[3]. The 3rd "Deep Water Cup" National Water Supply and Drainage College Student

Science and Technology Innovation Competition, Third Prize, 2019.

Publication of monographs/books

[1] Study on fluoridation removal performance of granular ternary metal composite oxides.

Central South University Press, 2021.11, Editor-in-Chief

[2] Water Analytical Chemistry, Chemical Industry Press, 2014.09, co-editor

[3] Water Pump and Water Pumping Station, Peking University Press, 2013.01, co-editor

**Engineering background** 

Demonstration of the second water source in Anren County



	ix D-2: Curriculu e and Engineering		<u>iculty in N</u>	Vater Supply a	nd Drainag	e Hin	AN CITY UNITED
name	Chi Nianping	gender	man	Date of birth	1973.12	job title	professo r
Highe st acade mic qualif icatio ns	graduate student	Highest degree	doctor	mailbox	chiniar	oping@1	63.com
Educati							
	-2013.09, Ph.D., S -2006.07, M.S., So				0 0		-
	ing University		i Conști u	Cion anu Envi	i Jiniciitai I	Linginit	
1993.09	-1996.07, Departi	nent of Urban	Construc	tion, Hunan C	ity Univers	ity, majo	or in water
supply	and drainage						
Scientif	ic research and e	lucation refor	m project	5			
[1].Zhe	jiang Provincial S	cience and Te	chnology ]	Program: Devo	elopment ar	ıd Appli	cation of
Low Po	llution Forward I	Permeability N	Aembrane	for Membran	e-Bioreacto	r (20160	033014),
2016-20	17, 150,000 RMB	, Project Lead	ler.				
[2].Nat	ıral Science Foun	dation of Hun	an Provin	ce: Research o	on the mech	anism o	f action of
magnet	ic diatomaceous e	arth-ceramic	membran	e bioreactor to	remove dis	solved o	organic
nitroge	n						
22022-2	024, 50,000 yuan,	project leade	r.				
[3].Key	Project of Hunar	Provincial D	epartment	t of Education:	Research o	on the M	lechanism
of Sulfo	namide Antibioti	c Removal by	Composit	e Magnetic Po	wder Coupl	ing Dyn	amic
Touch-l	Bioreactor, 60,000	RMB, Projec	t Leader.				
[4].Hun	an Provincial Ed	ucation Scienc	e Plannin	g: Research on	the Optim	ization o	of
Innovat	ion and Entrepre	neurship Cur	riculum Sy	ystem for Wate	er Supply a	nd Draiı	nage
Science	and Engineering	from the Pers	pective of	"Specialized a	and Creative	e Integra	ation",
10,000	vuan, project lead	er.					



Scientific papers

[1]. FeS redox power motor for PDS continuous generation of active radicals on efficient degradation and removal of diclofenac: Role of ultrasonic. Chemosphere.

[2]. 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

[3]. Preparation of amphiphilic cationic polyacrylamide (CPAM) with cationic microblock structure to enhance printing and dyeing sludge dewatering and condition performance. Environmental Science and Pollution Research.

[4]. Pretreatment + catalytic internal electrolysis + ceramic membrane A/O-MBR treatment of coking wastewater. Water Supply and Drainage in China.

[5].ZnO/g-C3N4 Nanostructured Photocatalyst for Enhancement of Photodegradation of Antibiotic Pollutant in Wastewater under Simulated solar Light Illumination

[6]. Chi Nianping, Dong Bingzhi, Luo Wenlian, He Zhiyong, Coagulation/hydrolysis

acidification/combined biological treatment process for washing wastewater[J], China Water Supply and Drainage, 2010, (26), 2, 57-59;

[7]. Chi Nianping, Luo Wenlian, Liao Yi, Dong Bingzhi, Composite Ecological Filter Bed for Remediation of Heavy Metal Contaminated Surface Water[J], Journal of Environmental Science, 2010, (30), 10, 1971-1976

[8]. Chi Nianping, Zhang Yongji, Dong Bingzhi, Zhou Lingling, Effect of different disinfectants on nutrient substrates in drinking water[J], Journal of Hunan University (Natural Science Edition), 2010, (37), 10, 83-87;

[9]. Chi Nianping, Dong Bingzhi, Liao Yi, Luo Wenlian Establishment and Application of Quantitative Model of Effective Energy Consumption in Flocculation Process[J], Water Treatment Technology, 2010, (36), 11, 22-24

Chi Nianping, A-A2/O Process Quality Improvement and Transformation of Urban Sewage Plant Practice[J], Journal of Jiamusi University, 2011, (29), 3,358-360,364;

[11]. Chi, Nianping; Chu, Huaqiang; Gui, Bo; etc,Identification of irreversible foulants in spiral ultrafiltration membranes[J],Fresenius Environmental Bulletin, 2013, 22(8): 2226-2233.

[12]. Wang Pu, Chi Nianping, Study on the influencing factors of fractal dimension of flocs[J], Water Treatment Technology, 2006, (32), 9, 19-22;

[13]. Wang Pu, Chi Nianping, Li Jiangtao, Quantitative test of flocculation effect based on fractal dimension[J], Journal of Sichuan University (Engineering Science Edition), 2006,



(38): 6, 79-82

[14]. Cheng Yizhi, Ji Zhizhi, Zhu Jian, Chi Nianping, Dynamic simulation study of landfill leachate treated by air flotation-coagulation-Fenton oxidation[J], Industrial Water and Wastewater, 2010, (40), 3, 41-45;

[15]. Luo Wenlian, Zhu Jian, Cheng Yizhi, Ji Zhizhi, Chi Nianping, Simulation experiment of coagulation-ultraviolet photocatalytic oxidation for landfill leachate[J], Journal of Central South Forestry University, 2011, (31), 1, 86-90

[16]. Luo Wenlian, Chi Nianping, Cheng Yizhi, Ji Zhizhi, Vehicle roving UV/Fenton device to treat landfill leachate in small towns[J], Sichuan Environment, 2010, (29), 12, 16-20

[17]. Preparation of a novel Fe2O3-MoS2-CdS ternary composite fifilm and its

photoelectrocatalytic performance[J]; Tongtong Zhang, Handou Zhang, Yun Ji, Nianping Chi, Yanqing Cong; Electrochimica Acta, 2018, 285, 230-240;

[18]. Mechanism and effificiency of contaminant reduction by hydrated electron in the

sulfifite/iodide/UV process[J]; Keer Yu , Xuchun Li, Liwei Chen , Jingyun Fang , Huali

Chen , Qiangbiao Li, Nianping Chi , Jun Ma

Water Research, 2018 (129), 357-364;

[19]. Improving the hydrophilic and antifouling properties of poly(vinyl chloride)

membranes by atom transfer radical polymerization grafting of poly(ionic liquid)

brushes[J]; Yuan-yuan cheng, chun-hui Du, Chun-jin Wu, kai-xiang Sun, Nian-ping Chi,Polymers for advanced technologies; 2018

[20]. Du Chunhui, Cheng Junjie, Wu Chunjin, Zhang Xinyi, Sun Kaixiang, Chi Nianping, Chitosan Composite Positive Permeability Membrane and Its Separation of Emulsified Oil Wastewater[J], Water Treatment Technology, 2019, (45), 5, 25-28, 33

wastewater [5], water freatment reenhology, 2019, (45), 5, 25-26, 55

[21]. Yanqing Cong ,Wenhua Zhang, Wenchen Ding,Tongtong Zhang ,Yi Zhang, Nianping

Chi ,Qi Wang.Fabrication of electrochemically-modified BiVO4-MoS2-Co3O4composite film

for bisphenol A degradation[J]. Jounal of environment science, 2021, 102, 341-351;

**Educational Reform Papers** 

[1].Research on the construction of teaching evaluation system for water supply and drainage science and engineering courses in local colleges and universities based on the concept of OBEContemporary Educational Practice and Teaching Research

[2]. Research on the Construction of Curriculum System of Water Supply and Drainage

Science and Engineering under the Background of Professional Certification. Modern

property

Scientific research awards



#### not

**Teaching awards** 

not

Publication of monographs/books

[1]. Safety and Intelligent Management of Drinking Water Transmission and Distribution,

**Central South University Press** 

**Engineering background** 

Lanxi River Comprehensive Improvement Project in Yiyang City, 2023



Science ar	<u>id Engineerin</u>	<u>1g</u>					2 THE CITY UNITED
name	Zhu Xilin	gender	man	born years	1966.10	job title	Professor-level senior engineer
Highest academic qualificati ons	undergra duate	Highest degree	bachelor	mail box		ZXL69	81@163.com
Education				·			
1984.09~198	88.06, Depart	ment of Env	vironmental	Enginee	ring, Tongji	Univers	ity, B.S. in Engineering
Scientific re	search and e	ducation re	form project	ts			
not							
Scientific pa	pers						
[1]. Zhu Xili	in. Water Suj	oply and Dr	ainage, 201	1,47(08):	85-87.		
[2]. Zhu Xili	in. Research	on design of	f roof (high)	fire wat	er tank[J].W	Vater Suj	pply and
Drainage,20	12,48(08):90	-94.)					
[3]. Zhu Xili	in. Research	on the calcu	lation meth	od of wa	ter distribut	tion netw	vork design flow of
village and t	town water su	upply proje	ct[J].China '	Water Su	pply and D	rainage,	2012, 28(18):68-72.)
Educational	Reform Pap	ers					
not							
patent							
not							
Scientific re	search award	ls					
not							
Teaching aw	vards						
not							
Publication	of monograp	hs/books					
[1]. Evaluat	ion standard	for green ir	ndustrial bui	ildings (C	GB/T 50878-	-2013), a	one of the main drafters
of the stand	ard.						
[2] National	Survey and	Design Regi	istered Publ	ic Equip	ment Engin	eer Wate	r Supply and Drainage
Professional	Qualificatio	n Examinat	ion Textboo	k - Volur	ne 3 Buildin	ıg Water	Supply and Drainage
Engineering	, Writing Bu	ilding Fire	Protection C	Chapter.			
Engineering	g background	l					



I am mainly engaged in the design and management of water supply and drainage engineering. It has obtained the People's Republic of China Registered Public Equipment Engineer (Water Supply and Drainage) Qualification Certificate and the People's Republic of China Registered Supervision Engineer Practice Qualification Certificate.



Science and	Engineering		2			UNITAL CITY (	MATTER
name	Wang Lixin	gender	man	Date of birth	1966.11	job title	Professoria I level Senior engineers
Highest academic qualificat ions	undergrad uate	Highest degree	bachel or	mailbox	wangl	ixincecch	ina.com
Education							
in Water Su	38.07, Departn 1pply and Dra	inage			iversity, Bac	helor of H	Engineering
	esearch and ed	lucation refor	m project	ts			
not							
Scientific p	apers						
not							
Educationa	l Reform Pape	ers					
not							
patent							
Patent Type	rbonate chemi e: Utility Mode	el	_	and dischargi	ng device		
	n/Patent No.: C etin Number:						
	etin Number: Duncement dat		U				
	esearch award						
not							
Teaching av	wards						
not							
Publication	of monograpl	ns/books					
not							



**Engineering background** 

**Registered Utilities Engineer (Water Supply & Drainage)** 



<u>Scienc</u>	<u>e and Engine</u>	ering				<u> </u>	CITY UNIVE
name	Yan Hengzhen	gender	woman	Date of birth	1973.02	job title	associat e professo r
Highe st acade mic qualif icatio ns	graduate student	Highest degree	doctor	mailbox	Zheng	7302@126	.com
Educati	ion						
Wuhan 2000.09 Technol	University of -2003.07, Sch logy, M.S -2010.07, Ph.	f Technology lool of Civil E	ngineering	chool of Civil E and Architecto neering and Arc	ure, Wuhan U	Jniversity o	of
Scientif	ïc research ai	nd education	reform pro	jects			
[1].2014	Hunan Prov	incial Teachi	ng Reform	Research Proj	ect of Ordina	ry Colleges	s and
Univers	ities - Resear	ch on the Ref	form of Sch	ool-Enterprise	Cooperation	Talent Tra	ining
				ce and Enginee	-		0
	-		0	014] No. 247), I			
25,000	RMB, Host);						
		vincial Depart	tment of Ed	lucation Scient	ific Research	Youth Pro	ject -
Biodegr	adation Perf	ormance Eva	luation of T	Typical Oxide C	Dre Flotation	Reagents (	Hunan
				51 B009, Provincia			
	rincipal Inve					,	
	-	0 ,	igher Educ	ation Scientific	e Research Pr	oject - Cor	istruction



of Application-oriented and Innovative Faculty Based on the Excellent Engineer Training

Program (Hunan City University, No.: JK13A007, Department and Bureau Level, 10,000

yuan, host).

Scientific papers

[1]. Yan Hengzhen, Chen Shaohua. Study on biodegradation performance and structural

correlation of hydrocarbon-based xanthate collectors[J].Journal of Safety and

Environment,2015,16(6):242-245.) (CSCD)

[2]. Yan Hengzhen, Gong Wenqi, Mei Guangjun, et al. Journal of Safety and

Environment,2011,11(4):76-81. (CSCD)

**Educational Reform Papers** 

[1]. Yan Hengzhen. Exploration and practice of teaching reform of water supply and

drainage pipe network system[J].China Electric Power Education,2014,(5):8-9.)

[2]. Yan Hengzhen. A preliminary study on improving the classroom teaching ability of

young teachers in colleges and universities[J].Science & Technology

Information,2015,(8):13-14.)

patent

[1]. Yan Hengzhen. Utility model patent, patent number: ZL201620213460.7, authorization

announcement date: 2016.08.24.

[2]. Yan Hengzhen. Utility model patent, patent number: ZL201620213491.2, authorization

announcement date: 2016.10.05.

Scientific research awards

[1]. Yan Hengzhen, Chen Shaohua. Biodegradation performance and structural correlation

of hydrocarbon-based xanthate collectors. Second Prize of the 2nd Natural Science

Outstanding Academic Achievement Award of Yiyang City, 2016.

**Teaching awards** 

[1]. In 2012, he was awarded the title of "Teaching Expert of Young Teachers in Ordinary

Colleges and Universities in Hunan Province".

[2]. Design of urban rain garden based on climatic conditions in Hunan Province. The First

Hunan Provincial College Students' Comprehensive Utilization of Water Resources



Innovation Design Competition, Second Prize, 2016.

Publication of monographs/books

Study on biodegradability of amine collectors, Hunan Science and Technology Press, 2016.10

**Engineering background** 

not



Scienc	e and Engineerin	g	-			AFE	CITY UNIVERSI
name	Deng Jie	gender	woma n	Date of birth	1971.11	job title	associat e professo r
Highe st acade mic qualif icatio ns	graduate student	Highest degree	Maste r	mailbox	hndji	e@163.(	com
Educati	ion				·		
1998.09	-2001.06, M.S., S	chool of Civil ]	Engineerin	ıg, Hunan Uni	versity		
2003.09	-2008.05, M.S., S	chool of Civil ]	Engineerin	ig, Hunan Uni	versity		
Scientif	ïc research and e	ducation refor	m projects	\$			
[1]. Col	laborative Educa	tion Project of	the Depar	rtment of Higl	ner Educatio	n of the	Ministry
of Educ	ation: Research	on the Teachin	g Reform	of Building W	ater Supply a	and Dra	inage
Engine	ering Curriculum	in the Contex	t of Engin	eering Educat	ion Accredita	ation	
(201902	2099001), 2020-20	21, Project Le	ader.				
[2]. Hu	nan Provincial De	epartment of E	ducation	Outstanding Y	outh Project	: Experi	imental
Researc	ch on Hydraulic (	Cavitation of P	erforated	Plates and Its	Strengthenir	ng Effec	t
(08C20)	1), 2008-2012, Pro	oject Leader.					
[3]. Hu	nan Provincial De	epartment of <b>E</b>	ducation	General Proje	ct: Experime	ntal Re	search on
Hydrau	llic Cavitation an	d Its Strengthe	ening Effe	ct of Perforate	d Plates (080	C <b>201)</b> ,	
2008.6-2	2010.12, Project l	Leader.					
[4] Yiya	ng Science and T	echnology Pro	gram: Res	search on Hyd	raulic Cavita	tion in	the Field
of Wast	ewater (No. YKZ	0609), 2006-20	008, PI.				
Scientif	ïc papers						
[1] Den	g Jie. Experimen	tal Study of the	e Porous P	late Hydrody	namic Cavita	tion De	vice and



Removal the Algae in Water[J]. Recent Development on Material Science and

Environmental Material,2013,7:569-572(EI).

[2] Deng Jie, Experimental Investigation on Enhancive effect of Hydrodynamic cavitation

[J]. Advances in Chemical Engineering III.,2013,7:2865-2869(EI).

[3] Deng Jie. Study on Absorption Experiment of Methylene blue by Nitrifying peat[J].

Sustainable Cities Development and Environment, 2012, 8:1969-1972.

**Educational Reform Papers** 

[1] DENG Jie, ZHOU Shuiqiang, WANG Aihe, DENG Yumei. Teaching reform of building

water supply and drainage engineering course under the international engineering education

professional certification[J].Industry and Technology Forum,2020,19(24):150-151.)

[2] DENG Jie. Science & Technology Information,2011,(7):158-159.)

patent

[1]. Deng Jie. Composite catalyst for treating sewage and preparation method thereof[P].Invention patent, patent number: ZL202210107796.5, authorization announcement date 2023-09-08;

Scientific research awards

not

**Teaching awards** 

He has won the title of Outstanding Teacher of the 2nd City College, the first prize of the 4th Young Teacher Teaching Competition, the Outstanding Teaching Quality Award, the Outstanding Instructor of Graduation Design, and the Third Prize of Outstanding Paper on Teaching and Research Reform.

2015 Coach College Student "Challenge Cup" Competition, Third Prize.

Publication of monographs/books

[1]. Deputy Editor-in-Chief of Building Water Supply and Drainage System Engineering, edited by Fu Zhengrong, China Machine Press, 21st Century Higher Education Construction and Environmental Engineering Series Planning Textbook, 2011.

[2]. Participated in the compilation of Urban Water Saving Engineering, edited by Wei Qun, China Building Materials Industry Press, 2006.

**Engineering background** 



[1]. S209 Loudi City Ring Road South Section New Project Road and New Shibu Bridge

**Completion Acceptance Quality Inspection;** 

[2]. Changde Binhu Road West Extension Bridge Engineering Load Test Detection;

[3]. Lianyuan City Traffic Bridge Project.



# Appendix D-2: Curriculum Vitae of Faculty in Water Supply and Drainage

	e and Engineerin			ater Supply a		AUMARY	TY UNITED
name	Li Yuanping	gender	woma n	Date of birth	1982.01	job title	associa te profess or
Highe st acade mic qualif icatio ns	graduate student	Highest degree	doctor	mailbox	yuanping	li@hncu	.edu.cn
Educati	on						
	-2004.06, College			C			sity, B.S
	-2015.06, Ph.D., S	School of Envi	ronmental	Science and H	Engineering,	Hunan	
Univers	•						
	ic research and e						
	nan Provincial De	-		_			
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	ation of Valent H 1an Provincial Na	·	,		, U		
	ation of polybrom			Ū			
	2020JJ5019), 202	-	JI CONCI CO		annent and	neen	anyn VI
	1an Provincial De		ducation S	Scientific Rese	arch Genera	l Project	
	ch on the simultar	-				U	
environ	ment based on 3I	) gold nanoclu	ster modif	ïed gold electi	rode (17C03(	<b>)5), 201</b> 7-	-2019,
Project	Leader.						
[4]. 201	9 The Second Bat	ch of Industry	-Universit	y Cooperation	1 and Collab	orative	
Educati	on Projects of the	e Ministry of H	Education:	Construction	and Reform	of Hydr	aulic
Curricu	llum for Engineer	ring Education	n Professio	nal Certificati	ion (2019020	99003),	



2020-2021, Project Leader.

[5]. Hunan Provincial Teaching Reform Research Project of Ordinary Colleges and Universities: Research on the Teaching Reform of "Golden Class" in Hydraulics under the Background of First-class Major Construction and Engineering Education Professional Accreditation (HNJG-2022-0995), 2022-2024, Project Leader.

[6]. National Natural Science Foundation of China: Research on the mechanism of action of modified shell powder/Ce-N-TiO2 adsorption and photocatalytic degradation of typical dissolved organophosphorus (42071122), 2021-2024, participant.

[6]. National Natural Science Foundation of China: Design and synthesis of

LDH/MIL-101(Fe)/La-Fe-TiO2 molecules and their removal mechanism of typical

nitrogen-containing heterocyclic compounds (52370074), 2024-2027, participant.

[7]. Hunan Provincial Natural Science Foundation General Project: Migration and transformation, source control and mechanism of heavy metal antimony in arsenic alkali slag in typical antimony mining areas (2021JJ30080), 2021-2023, participant.

Scientific papers

[1].Yuanping Li<sup>#</sup>, Yuqing Liu<sup>#</sup>, Yihuan Liu<sup>#</sup>, Yaoning Chen<sup>\*</sup>, Li Chen, Haoqin Yan, Yanrong Chen, Fangting Xu, Meiling Li, Linshenzhang Li. Modification of sludge biochar by MnO2 to degrade methylene blue: Synergistic catalysis and degradation mechanisms. Journal of Water Process Engineering. 2022,48:102864.DOI: 10.1016/j.jwpe.2022.102864(SCI 2 Zone, 一作).

[2].Yuanping Li<sup>#</sup>, Yanrong Chen<sup>#</sup>, Yaoning Chen<sup>#\*</sup>, Yanxin Wu, Chun Zhang, Zhen Peng, Yihuan Liu, Sha Wang, Ran Xu, Ziping Zeng. Effects of physico-chemical parameters on *Actinomycetes* communities during composting of agricultural waste. Sustainability, 2019,11(8):2229-2242(SCI Zone 3, one work).

[3].LI Yuanping<sup>\*</sup>, ZHANG Wei, TANG Lin, ZHANG Yi, CHEN Yaoning, ZENG Guangming. Research Progress on the Detection and Analysis of Herbicide Herbicide Herbicide in Environmental Media. Environmental Science and Technology, 2017, 40(12): 104-111

[4].Yaoning Chen<sup>#\*</sup>, Mengyang Zhao<sup>#</sup>, Yuanping Li<sup>#\*</sup>, Yihuan Liu, Li Chen, Hongjuan Jiang,



Hui Li, Yanrong Chen, Haoqin Yan, Suzhen Hou, Longbo Jiang. Regulation of tourmaline-mediated Fenton-like system by biochar: Free radical pathway to non-free radical pathway. Journal of Environmental Management. 2023,344:118497. DOI: 10.1016/j.jenvman.2023.118497. (SCI Zone 1, co-corresponding author, tied for first).

[5].Li Chen<sup>#</sup>, Yaoning Chen<sup>#\*</sup>, Yuanping Li<sup>#\*</sup>, Yihuan Liu, Hongjuan Jiang, Hui Li, Yu Yuan, Yanrong Chen, Bin Zou. Improving the humification by additives during composting: A review. Waste Management. 2023,158:93-106. (SCI Zone 1, co-corresponding author, tied for first).

[6].Yaoning Chen<sup>#\*</sup>, Hongjuan Jiang<sup>#</sup>, Yuanping Li<sup>#\*</sup>, Yihuan Liu, Yanrong Chen, Li Chen, Xinli Luo, Ping Tang, Haoqin Yan, Mengyang Zhao, Yu Yuan, Suzhen Hou. A critical review on EDTA washing in soil remediation for potentially toxic elements (PTEs) pollutants. Reviews in Environmental Science and Bio-Technology. 2022,21:399-423. (SCI Zone 1, co-corresponding author, tied for first).

[7].Yaoning Chen<sup>#\*</sup>, Xinli Luo<sup>#</sup>, Yuanping Li<sup>#\*</sup>, Yihuan Liu, Li Chen, Hongjuan Jiang, Yanrong Chen, Xiaoli Qin, Ping Tang, Haoqin Yan. Effects of CaO2 based Fenton-like reaction on heavy metals and microbial community during co-composting of straw and sediment. Chemosphere. 2022,301:134563. DOI: 10.1016/j.chemosphere.2022.134563. (SCI Zone 2, co-corresponding author, tied for first).

[8].Yaoning Chen<sup>#\*</sup>, Ping Tang<sup>#</sup>, Yuanping Li<sup>#\*</sup>, Li Chen, Hongjuan Jiang, Yihuan Liu, Xinli Luo. Effect of attapulgite on heavy metals passivation and microbial community during co-composting of river sediment with agricultural wastes. Chemosphere. 2022,299:134347.DOI: 10.1016/j.chemosphere.2022.134347. (SCI Zone 2, co-corresponding author, tied for first).

[9].Yihuan Liu<sup>#</sup>, Yaoning Chen<sup>#\*</sup>, Yuanping Li<sup>#\*</sup>, Li Chen, Hongjuan Jiang, Hui Li, Xinli Luo, Ping Tang, Haoqin Yan, Mengyang Zhao, Yu Yuan, Suzhen Hou. Fabrication, application, and mechanism of metal and heteroatom co-doped biochar composites (MHBCs) for the removal of contaminants in water: A review. Journal of Hazardous Materials. 2022,431:128584. DOI: 10.1016/j.jhazmat.2022.128584. (SCI Zone 1, co-corresponding author, tied for first).



[10].Yanrong Chen<sup>#</sup>, Yaoning Chen<sup>#\*</sup>, Yuanping Li<sup>#</sup>, Yihuan Liu, Hui Li, Hongjuan Jiang, Xinli Luo, Ping Tang, Li Chen, Haoqin Yan. Evolution of humic substances and the forms of heavy metals during co-composting of rice straw and sediment with the aid of Fenton-like process. Bioresource Technology. 2021,333:125170. DOI: 10.1016/j.biortech.2021.125170 [11].Yaoning Chen<sup>#\*</sup>, Linshenzhang Li<sup>#</sup>, Yuanping Li<sup>#\*</sup>, Yihuan Liu, Yanrong Chen, Hui Li, Meiling Li, Fangting Xu, Yuqing Liu. Preparation of a double-network hydrogel based on wastepaper and its application in the treatment of wastewater containing copper(II) and methylene blue. RSC Advances. 2021, 11: 18131-18143

[12].Yaoning Chen<sup>#\*</sup>, Meiling Li<sup>#</sup>, Yuanping Li<sup>#</sup>, Yihuan Liu, Yanrong Chen, Hui Li, Linshenzhang Li, Fangting Xu, Hongjuan Jiang, Li Chen. Hydroxyapatite modified sludge-based biochar for the adsorption of Cu2+and Cd2+: Adsorption behavior and mechanisms. Bioresource Technology. 2021,321:124413. DOI: 10.1016/j.biortech.2020.124413

[13].Yaoning Chen<sup>\*</sup>, Zhen Peng, Yuanping Li<sup>\*</sup>, Yihuan Liu, Yanrong Chen, Yanxin Wu, Ran Xu, Sha Wang, Ziping Zeng. Photocatalytic performance of Z-scheme SrCO3-SrTiO3/Ag3PO4 heterojunction for tetracycline hydrochloride degradation. Journal of Materials Science. 2021, 56: 4356-4365 (SCI Region 2, co-corresponding author, tied for first).

[14].Yaoning Chen\*, Yihuan Liu, Yuanping Li\*, Li Zhao, Yanrong Chen, Hui Li, Yuqing Liu, Linshenzhang Li, Fangting Xu, Meiling Li. Functional wastepaper-montmorillonite composite aerogel for Cd2+ adsorption. Environmental Science and Pollution Research.
2020, (SCI Region 3, co-corresponding author, tied for 1st).

[15].Yaoning Chen<sup>\*</sup>, Ran Xu, Yuanping Li<sup>\*</sup>, Yihuan Liu, Yanxin Wu, Yanrong Chen, Jiachao Zhang, Sha Chen, Hanshuang Yin, Ziping Zeng, Sha Wang, Zhen Peng. La(OH)<sub>3</sub>-modified magnetic CoFe2O4 nanocomposites: A novel adsorbent with highly efficient activity and reusability for phosphate removal. Colloids and Surfaces A: Physicochemical and Engineering Aspects. 2020,599:124870. (SCI Region 3, co-corresponding author, tied for first).

[16].Yaoning Chen<sup>\*</sup>, Sha Wang, Yuanping Li<sup>\*</sup>, Yihuan Liu, Yanrong Chen, Yanxin Wu,



Jiachao Zhang, Hui Li, Zhen Peng, Ran Xu, Ziping Zeng. Adsorption of Pb(II) by tourmaline-montmorillonite composite in aqueous phase. Journal of Colloid and Interface Science, 2020, 575:367-376 (SCI Region 2, co-corresponding author, tied for first).

[17].Yaoning Chen\*, Ziping Zeng, Yuanping Li\*, Yihuan Liu, Yanrong Chen, Yanxin Wu, Jiachao Zhang, Hui Li, Ran Xu, Sha Wang, Zhen Peng. Glucose enhanced the oxidation performance of iron-manganese binary oxides: Structure and mechanism of removing tetracycline. Journal of Colloid and Interface Science, 2020, 573:287-298 (SCI Region 2, co-corresponding author, tied for first).

[18].Yaoning Chen<sup>\*</sup>, Yuqing Liu, Yuanping Li<sup>\*</sup>, Yanxin Wu, Yanrong Chen, Yihuan Liu,Jiachao Zhang, Fangting Xu, Meiling Li, Linshenzhang Li. Synthesis, application and mechanisms of Ferro-Manganese binary oxide in water remediation: A review. Chemical Engineering Journal, 2020, 388:124313–124327 (SCI Zone 1, co-corresponding author, tied for 1st).

[19].Yaoning Chen, Weiyu Liang, Yuanping Li\*, Yanxin Wu, Yanrong Chen, Wei Xiao, Li Zhao, Jiachao Zhang, Hui Li. Modification, application and reaction mechanisms of nano-sized iron sulfide particles for pollutant removal from soil and water: A review. Chemical Engineering Journal, 2019, 362:144–159 (ESI Highly Cited Paper, SCI Zone 1, co-corresponding author, tied for 1st place).

[20].Yuan Yu, Liu Yexing, Zeng Yuwei, Zhang Wenlu, Li Yuanping\*. Current Situation of Rural Domestic Sewage Treatment and New Model of Intelligent Management. Journal of Hunan City University (Natural Science Edition), 2020, 29(2): 24-27 (Corresponding author, the top four are undergraduates).

[21].LI Yuanping,ZOU Bin,JIA Shunyao,CHEN Pengyu,ZHU Chenyang,LIU Zhengwei,ZHOU Tianyun,ZHAO Yi,ZHU Li. Preparation of sludge-based biochar and its application in environmental pollution control. Journal of Hunan City University (Natural Science Edition), 2023, 32(6): 26-30

**Educational Reform Papers** 

[1]. Li Yuanping, Chen Yaoning. A brief analysis on the importance and construction ideas of "golden course" in local application-oriented undergraduate colleges[J].Education and



Teaching Forum, 2020, (50): 254-256.)

[2]. Li Yuanping, Chen Yaoning. Exploration of the construction of first-class undergraduate

courses: A case study of hydraulic teaching reform[J].Modern Commerce & Trade

Industry,2021,42(20):161-162.)

patent

[1]. Chen Yaoning, Chen Yanrong, Li Yuanping, Zeng Guangming, Ma Lu, Yuan Xingzhong,

Yan Ming, Wu Yanxin, Zhang Jiachao. Method for remediation of

2,2',4,4'-tetrabromodiphenyl ether contaminated soil[P].Invention patent, patent number:

ZL 2016 1 0894681.X, authorization announcement date: 2019.12.6.

Li Yuanping, Zou Bin, Jia Shunyao, Yuan Yu, Chen Yaoning, Zhang Wei, Chen Pengyu, Zhu Chenyang, Liu Zhengwei. Electrochemical sensor for detecting cadmium ions and lead ions, preparation method and application thereof[P].Invention patent, application number: 202211648972.2, application date: 2022.12.21.

[3] Li Yuanping, Jia Shunyao, Zhang Wei, Chen Yaoning, Zhou Tianyun, Liu Zhengwei, Zhu

Li, Peng Yishun, Zhao Yi. Method for detecting polybrominated diphenyl ethers in water by

biochar electrochemical sensor[P].Invention patent, application number: 202311076966.9, application date: 2023.8.24.

[4] Li Yuanping, Jia Shunyao, Chen Yaoning, Zou Bin, Liu Zhengwei, Zhou Tianyun, Zhu

Li, Zhao Yi, Peng Yishun. A strain of aerobic defense Pseudomonas and its

application[P].Invention patent, application number: 202311133588.3, application date:

2023.9.4

Scientific research awards

[1]. Li Yuanping, Zhang Wei, Tang Lin. Research progress in the detection and analysis of herbicide chloredine in environmental media. Third Prize of the 3rd Natural Science Outstanding Academic Achievement Award of Yiyang City, 2019.

[2]. Li Yuanping, Chen Yanrong, Chen Yaoning. Effects of physicochemical factors on

actinomycete community during the composting process of agricultural waste. The 4th

Natural Science Outstanding Academic Achievement Award of Yiyang City, 2021.

**Teaching awards** 

[1]. Second Prize of the Higher Education Group Individual Competition of the 2nd Hunan Micro Course Competition, 2017.02.

[2]. In 2019, he was awarded the honorary title of Outstanding Teacher of Hunan City University.

[3]. Simultaneous sensing of heavy metals Cd and Pb in water environment based on 3D gold nanocluster modified gold electrode. The 3rd "Deep Water Cup" National College Students' Water Supply and Drainage Science and Technology Innovation Competition, Third Prize, 2019.

[4]. Outstanding instructor of the 3rd "BEWG Cup" of the National College Students'

Municipal Environment Innovation and Practice Ability Competition, 2021.11.

[5]. Hunan Zhongyi Environmental Protection Co., Ltd. "Create Youth" Hunan College

Student Entrepreneurship Competition, Bronze Award, 2016. (2nd Instructor)

**Publication of monographs/books** 

[1]. Li Yuanping, Chen Yaoning. Research on the application of gene sensing and immune

technology in the detection of environmental pollution control process[M].Changsha:Central

South University Press, 2022.ISBN978-7-5487-5113-7

name	Chen Wen	gender	man	Date of birth	1970.03 job Senio title engine		
Highe st acade mic qualif icatio ns	graduate student	Highest degree	Maste r	mailbox	7573	2071@qc	ı.com
Educatio 1988.09-	on 1992.07, College	of Civil Engir	neering, Hu	ınan Univers	sity, B.S		



#### **Engineering**, M.S

Scientific research and education reform projects

[1]. Presided over the conclusion of the project of Hunan Provincial Department of

Education, "Research on the Treatment of Pathogenic Microorganisms in Air Conditioning Cooling Water", Xiang Cai Jiao Zhi [2008] No. 71

[2]. Presided over the conclusion of the Hunan Provincial Construction Science and

Technology Plan Project "Research on the Treatment of Pathogenic Microorganisms in

Circulating Cooling Water" (Xiang Jianke [2008] No. 459)

[3]. Presided over and guided the students to complete the research and innovation project of

college students in Hunan Province: the provincial project of Hunan City University

"Detection and Prevention of Germs in Solar Water Heaters at Medium and Low

Temperatures"

[4]. Presided over the conclusion of the "Twelfth Five-Year Plan" higher education scientific

research project of the Chinese Association of Higher Education, "Research on the

Construction of On-campus Production Practice Bases for Civil Engineering Majors in

Application-oriented Undergraduate Colleges" (general topic)

Scientific papers

Detection and prevention of germs in solar water heater at medium and low

temperatures[J]. Theoretical Research on Urban Construction, 2011.6, First author.

Kinetic study on cadmium adsorption in iron-coated sand[J].Environmental Science and

Technology,2007.9, first author.

[3].Study on the behavior of bisphenol A in the coagulation process of drinking

water[J].China High-tech Enterprise,2008.9,First author.

**Educational Reform Papers** 

not

Scientific research awards

not

**Teaching awards** 

not

Publication of monographs/books

not

Engineering background



name	Wen Zhifang	gender	woma n	Date of birth	1983.08	job title	Senior engineer			
Highe st acade mic qualif icatio ns	undergrad uate	Highes t degree	bache lor	mailbox	183467558@qq.com					
Educati	on									
2002.09	-2007.07, Hur	nan City U	niversity	, B.S. in Engine	ering					
Scientific research and education reform projects										
not										
Scientif	ic papers									
[1]. Wei	n Zhifang, Wa	ng Jian. A	Application	on of graph algo	rithm in hy	draulic cal	culation of			
building	g water supply	y and drai	nage[J].(	China Water Tra	ansport,201	4.11:379				
[2]. Wei	n Zhifang. Ho	w to apply	y water-s	aving measures	in building	water supp	oly and			
drainag	e design[J].So	cience and	Technol	ogy Innovation a	and Applica	tion,2014,3	36:132.			
[3]. Wai	ng Jian, Wen	Zhifang, I	.i Bo. Pil	e and Soil-Rock	Mass Mech	anical Pro	perty Based on			
Modifie	d Constitutiv	e Model[J	]. 《Elect	ronic Journal of	f Geotechnie	cal Engine	ering》,			
2014,p2	057-2070,v19	i.								
Educati	onal Reform	Papers								
not										
Scientif	ic research av	vards								
not										
Teachin	g awards									
not	not									



Publication of monographs/books

not

#### **Engineering background**

presided over the civil engineering building of Hunan City University; Yiyang Innovation and Entrepreneurship Service Center, Public Rental Housing; Zhongnan E-commerce Park 1#, 2# office building; Phase I of Jinyu Garden, Taojiang, Hunan Province; Xinhuyuan Times Square Phase I and II; Changyi Road Shantytown Reconstruction Project - Guofu Community; Shunde City Yiyang Home Furnishing Expo Center and building materials market; The first phase of the third water plant of Nanxian County Water Supply Company; Providence Wood Country Phase I Exhibition Hall; Hainan Taste Wang Dongao Base; the second phase of the Titian Garden of the Central Nuclear Corporation; Jinshui Sunshine; Yangfan Vocational and Technical School; More than 200 design businesses such as Hunan Wangjia Hangxiao Steel Structure Factory.



Scienc	<u>e and Engineerin</u>	g				1.1.1.1	CITY UNIVERS			
name	Zhou Jun	gender	man	Date of birth	1984.08	job title	associat e professo r			
Highe st acade mic qualif icatio ns	graduate student	Highest degree	doctor	mailbox	a8280(	a82800828@163.com				
Education										
2003.09-2007.06, Bachelor of Engineering, Department of Urban Construction, Hunan City										
Univers	University									
2008.09	-2011.03, Anhui U	J <b>niversity of Te</b>	echnology	, Master of En	gineering					
2014.09	-2023.10, Ph.D., S	School of Civil	Engineer	ing and Archit	ecture, Wuh	an Univ	ersity of			
Technol	ogy									
Scientif	ic research and e	ducation reform	m project	S						
Study o	an Provincial Na n the working co phase partitioned	nditions and m	embrane	characteristics	s of methyl 1	mercapta	an treated			
[2] Gen	eral Project of Sc	ientific Resear	ch Projec	t of Hunan Pro	ovincial Dep	artment	of			
Educati	on: Research on	the Efficacy of	Micro-ae	ration Three-d	limensional	Electrol	ytic Fixed			
Bed in t	he Treatment of	Catering Waste	ewater (N	o. 19C0354), 2	019-2021, P	roject Lo	eader.			
[3] Scier	nce and Technolo	gy Program of	'Hunan C	City University	: Preparatio	n and				
Experin	nental Research o	of Electrode Pa	rticles by	Fixed 3D Elec	trolysis (No	. 2016XJ	<b>J13)</b> ,			
2016-20	18, PI.									
[4] Hun	an Provincial De	partment of Ed	lucation S	Scientific Resea	arch Project	Genera	l Topic:			
Researc	h on Optimizatio	n of Three-din	nensional	Electrolysis Tr	eatment of	Catering	5			



Wastewater (No. 15C0259), 2015-2017, Project Leader.

[5] Yiyang Science and Technology Program: Experimental Research on Advanced
 Oxidation - Three-dimensional Electrolysis Combined Process for the Treatment of Catering
 Waste, (No. 2013ZJ33), 2013-2015, PI.

[6] Science and Technology Program of Hunan City University: Experimental Efficacy
Study on Three-dimensional Electrolysis Treatment of Catering Wastewater (No.
2012XJ007), 2012-2014, Project Leader.

[7] Education Reform Project of Hunan City University: Exploration and Practice of the Construction of Core Gold Courses in Water Supply and Drainage Science and Engineering Based on the OBE Concept (Xiangcheng Yuan Jiao Zi [2023] No. 30), 2023-2025, Project Leader.

[8] Industry-University Cooperation and Collaborative Education Project of the Department of Education of the Ministry of Education: An Exploration of the Training Model of

"Application-oriented" Teachers in Water Supply and Drainage Science and Engineering in Local Engineering Colleges under the Background of New Engineering (No. 201902099007), 2020-2021, Project Leader.

[9] Education Reform Project of Hunan City University: Construction of "Engineering and Innovation" Practice Ability Training System for Water Supply and Drainage Science and Engineering in Local Engineering Colleges (Xiangcheng Yuanfa [2019]), 2019-2021, Project Leader.

[10] Education Reform Project of Hunan City University: Research on the Construction of a "Project-based" Practical Teaching System for Water Supply and Drainage Science and Engineering in Local Undergraduate Colleges (Xiangcheng Yuanfa [2016] No. 51),
2016-2018, Project Leader.

[11] Education Reform Project of Hunan City University: Curriculum Reform and Practice of Water Engineering Economy Based on the Application-oriented Talent Training Model (Xiangcheng Yuanfa [2013] No. 44), 2013-2015, Project Leader.

Scientific papers

[1] Zhou Jun, Hu Xiaobing. Advanced Treatment of Fermentation Pharmaceutical



Wastewater by Three-dimensional Electrolysis[J]. Industrial Water Treatment, 2014, 34(06): 49-52.

[2] Zhou Jun, Xiong Ren, Wen Min, Cheng Xi. Pretreatment of catering wastewater by electric Fenton method[J]. Chinese Journal of Environmental Engineering, 2015, 9(12): 5887-5890.

[3] Zhou Jun, Yan Hengzhen, Hou Kanglong, Li Jixia, Zeng Yao. Study on the treatment of catering wastewater by fixed particle three-dimensional electrolysis[J]. China Water Supply and Drainage, 2016, 32(07): 78-81.

[4] Zhou Jun, Jiao Yunyi, Chen Xiangyu, Liu Xiaoqian. Research Status and Prospect of Catering Wastewater Treatment Methods[J]. Journal of Hunan City University (Natural Science Edition), 2016, 25(06): 73-75+78.

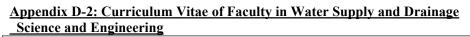
[5] Zhou Jun, Yang Fan, Deng Zhenning, Li Jian. Comparative Study on the Treatment of Catering Wastewater by Fixed 3D Electrode Method and 2D Electrode Method[J]. Journal of Hunan City University (Natural Science Edition), 2018, 27(01): 66-70.

[6] Jun Zhou, Ying H. Jiang, Wen H. Li and Xiao Y. Liu. Comparison and analysis of several wet scrubbing solutions to remove methyl mercaptan. Journal of Environmental Science and Health, Part A Toxic/Hazardous Substances and Environmental Engineering, 2018, 53(9): 819-824.

[7] Jun Zhou, Ying H. Jiang, Wen H. Li and Xiao Y. Liu. Kinetics and removal formula of methyl mercaptan by ethanol absorption without neglecting solute accumulation. Journal of Environmental Science and Health, Part A Toxic/Hazardous Substances and Environmental Engineering, 2018, 53(14), 1229-1234.

[8] Yang Y, Zhou Jun, Li Lu, Zhou Yanyi, Zheng Youchen. Research Status and Prospect of Electrochemical Treatment of Refractory Wastewater[J]. Journal of Hunan City University (Natural Science Edition), 2020, 29(06): 73-78.

[9] Zhou Jun, Guo Qianying, Yang Ying, Liu Baisheng, Liu Fan, Zheng Youchen. Comparison of Three-dimensional Electrolytic Fixed Bed Treatment of Catering Wastewater with Different Anode Plates[J]. China Water Supply and Drainage, 2020, 36(23): 58-63.





[10] Zhou Jun, Zhou Yanyi, Zheng Youchen, Li Yayi, Li Jiawei, Wang Yiyi, Zha Huanhuan, Xiang Xiannan. Research Progress on Three-dimensional Electrolysis for Particle Electrodes in Refractory Wastewater[J]. Journal of Hunan City University (Natural Science Edition), 2023, 32(03): 72-78.

**Educational Reform Papers** 

[1] Zhou Jun, Zhang Wei. Curriculum Construction and Reform of Water Engineering Economics[J]. Value Engineering, 2013, 32(14): 237-239.

[2] Zhou Jun, Zhang Wei, Yan Hengzhen, Deng Jie. Discussion on Case Teaching in the Course of Water Engineering Economics[J]. Times Education, 2014, 23: 81+83.

[3] Zhou Jun, Zhang Chun, Wang Aihe, Wang Caiwen, Deng Yumei. Construction of School-Enterprise Cooperative Practice Teaching System Based on Engineering Ability Training[J]. Value Engineering, 2017, 36(33): 186-187.

[4] Zhou Jun, Zhang Chun, Wang Caiwen, Li Hao. Research on the Construction of Engineering Faculty in Local Undergraduate Colleges[J]. Modern Vocational Education, 2018(13): 35.

[5] Zhou Jun, Zhang Chun, Wang Caiwen, Jiang Haiyan, Deng Yumei. Research on the Practical Ability Cultivation of Young Teachers in Local Undergraduate Colleges: A Case Study of Hunan City University[J]. Industry and Technology Forum, 2019, 18(15): 249-250.

patent

 Zheng Youchen, Zhou Jun et al. Particle electrode packing fixture[P]. Utility model patent, patent number: ZL 2019 2 1300542.5, authorization announcement date: 2020.04.17.
 Zhou Jun, Li Lili, et al. A kind of temperature control water-saving device based on PLC[P]. Utility model patent, patent number: ZL 2020 2 2051955.3, authorization announcement date: 2021.06.08.

[3] Zhou Jun, Li Yayi, et al. Suspended three-dimensional electrolytic fixed bed[P]. Utility model patent, patent number: ZL 202022546959.9, authorization announcement date: 2021.07.06.

Scientific research awards

[1] Zhou Jun. Electric Fenton method pretreatment of catering wastewater, third prize of



the second Yiyang Natural Science Outstanding Academic Achievement Award, 2016. [2] Zhou Jun. Research on the treatment of catering wastewater by fixed particle three-dimensional electrolysis, second prize of the 3rd Natural Science Outstanding Academic Achievement Award of Yiyang City, 2019. [3] Zhou Jun. Comparison of Three-dimensional Electrolytic Fixed-Bed Treatment of Catering Wastewater by Different Anode Plates, Winner of the 5th Natural Science Outstanding Academic Achievement Award in Yiyang City, 2023. Teaching awards not Publication of monographs/books

not

**Engineering background** 



	e and Engineerin		curty in v	ater Suppry a			A CITY UNIVERSITY	
name	Wang	gender	man	Date of birth	1982.01	job title	lecturer	
Highe st acade mic qualif icatio ns	graduate student	Highest degree	doctor	mailbox	75814470@qq.com			
Educati	on							
2008.09 Univers	-2005.06, B.S., Sc	chool of Metall	lurgical So	cience and Eng	gineering, C	entral S	outh	
Scientif	ic research and e	ducation refor	m project	5				
	n Provincial Nat				d Municina	l Ioint I	Jund	
	50347, Research o				-		unu,	
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	copper synergistic	c reduction me	tnoa, 2023	5/01-2025/12, 5	50,000 yuan,	, under 1	researcn,	
PI			-				_	
	ral Project of Hu		-					
on the <b>F</b>	Recovery of Meta	llic Arsenic in 1	High Sulf	uric Acid Med	ia by Coppe	er Chlor	ide	
Synergi	stic Reduction, 2	023/12-2025/12	2, 10,000 F	RMB, under re	search, Prir	icipal In	vestigator	
Scientif	ic papers							
[1] An V	Vang, Kanggen Z	hou*, Xuekai	Zhang, Di	ingcan Zhou, (	Changhong	Peng, W	ei Chen*.	
	removal from hi	•		U	nic content l	ру сорре	er-chloride	
	stic reduction. Ch	-			~	<b>n</b> -		
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	ive removal of ars			0 0	·			
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	ggen Zhou, All W	ang, Duchao Z	mailg", A		s, manzu ra	ing. Sull	ui ic aciu	



leaching of Sm-Co alloy waste and separation of samarium from cobalt, Hydrometallurgy,
174, 66-70, 2017
[4] Jianfeng Wen, An Wang, Fang Xia, Dong Xu, Tianzu Yang*. Pretreatment of
Se-Containing Lead Matte by Alkaline Pressure Leaching, Journal of Sustainable
Metallurgy, 3, 429-440, 2017
Educational Reform Papers
not
Scientific research awards
not
Teaching awards
not
Publication of monographs/books
not
Engineering background



Scienc	e and Engineerin	g				- Jan	TH CITY UNIVER			
name	boundless	gender	man	Date of birth	1980.05	job title	lecturer			
Highe st acade mic qualif icatio ns	graduate student	Highest degree	doctor	mailbox	environmentor@foxmail.co m					
Educati	ion									
2010.09	2010.09-2015.06, Ph.D., Geological Engineering, School of Earth Sciences and Information									
Physics, Central South University										
2003.09-2006.07, M.Eng., School of Architecture and Built Environment, KTH Royal										
Institute of Technology, Sweden										
1998.09	-2002.07, College	of Science, Hu	nan Agri	cultural Unive	rsity, Major	ing in				
Biotech	nology									
Scientif	ïc research and e	ducation reform	n project	S						
[1]. Hu	nan Provincial De	epartment of So	cience and	d Technology, I	Provincial a	nd Mun	icipal			
Joint P	roject: Research (	on the Formati	on Mecha	nism and Hea	lth Risk Ass	essment	t of			
Mercur	y Pollution in Gr	oundwater in S	olid Was	te Landfill in I	Dongting La	ke Disti	rict			
	(50274), 2022-202				0 0					
[2]. Ger	neral Project of H	unan Provincia	al Depart	ment of Educa	tion: Sourc	e and M	igration			
and Tra	unsformation Mee	chanism of Plai	nt Mercu	ry in Yuanjian	g Section, D	ongting	Lake			
District	(22C0509) 2023-	2024, 10,000 yı	ıan, Proje	ect Leader;						
[3]. App	olied Basic Reseau	rch and Soft Sc	ience Res	search Program	n of Yiyang	Science	and			
Techno	logy Bureau: Site	Suitability Ana	alysis and	l Treatment Te	chnology of	Solid W	aste			
Landfil	l in Hidden Karst	t Area of Dongt	ing Lake	District, [2022	2) No. 108, P	Project I	leader.			
Scientif	ïc papers									
Yimin I	Liu, Yang Wang, J	Ji Wang, Xiong	fei Cai, J	iawei Zheng, C	Characterist	ic analy	sis of			
ground	water pollution a	nd health risk a	assessmer	nt of valley land	dfill[J], Env	ironmei	ntal			



Chemistry, 2022, 41(8): 2540-2550

[2].Yang Wang; Keneng Zhang; Yonggui Chen; Xingzhi Zhou; Fuxin Jin; Prediction on

contaminant migration in aquifer of fractured granite substrata of landfill[J], Journal of

Central

South University, 2013, 20(11): 3193-3201

[3]. Yang Wang; Keneng Zhang; Yonggui Chen ; Separation and Recovery of Gold, Copper and

Silver from Waste Acid Residues by a Novel Alkaline Dechlorization-Acid Leaching

Process[J], Asian Journal of Chemistry, 2015, 27(1): 292-296;

[4]. Wang Yang, Li Shixiong, Zhu Xiangdong, Yu Zhiquan, A new process for preparing

standard lead and zinc concentrate from cyanide tailings derivatives[J], Chinese Journal of

Nonferrous Metals, 2013, 23(01): 247-253

**Educational Reform Papers** 

not

Scientific research awards

First Prize of Science and Technology Award of China Nonferrous Metals Industry, 2016

**Teaching awards** 

not

Publication of monographs/books

not

**Engineering background** 

The Second National Pollution Source Survey Project of Xingyi City, Southwest Guizhou

Prefecture

The third soil contaminated land remediation project in Guiyang City

#### 14 ¥ 7:4 C 12. n ſГ



	lix D-2: Curriculu e and Engineerin		<u>culty in V</u>	Vater Supply a	nd Drainage	12	annet and a start		
				Date of	1001.00	job	lectur		
name	Wang Caiwen	gender	man	birth	1981.09	title	er		
Highe									
st									
acade	graduate	Highest	Maste						
mic	student	degree	r	mailbox	469862473@qq.com		com		
qualif									
icatio									
ns									
Educati	on								
2001.09	-2005.07, Bachelo	or of Engineeri	ng, Schoo	l of Hydraulic	Engineering	, Changs	ha		
University of Science and Technology									
2005.09	-2008.07, School	of Hydraulic E	ngineerin	ig, Changsha U	J <b>niversity of</b>	Science a	nd		
Technol	logy, M.S								
Scientif	ic research and e	ducation reform	n project	S					
[1]. Edu	ication Reform P	roject of Huna	n Provinc	ial Departmen	t of Educatio	on: Resea	rch and		
Practico	e of Industry-Uni	versity-Resear	ch Combi	nation of Wate	er Supply and	d Drainag	ge		
Science	and Engineering	from the Pers	pective of	Outstanding <b>H</b>	Engineers (X	iangjiaoto	ong		
[2015] N	No. 118-420) 2015	-2018, Project	Leader.						
[2]. Hui	nan City Universi	ty Education <b>F</b>	Reform Pi	oject: Researc	h on the Cul	tivation o	of Water		
Supply	and Drainage Sci	ence and Engi	neering A	pplication-orie	ented Talents	s by Coml	bining		
Industr	y, Education and	Research (Xia	ngcheng	Yuanfa [2016] ]	No. 80), 2016	5-2018,  Pr	oject		
Leader.									
[3]. Ind	ustry-University	Cooperation a	nd Collab	orative Educat	tion Project o	of the Mi	nistry of		
Educati	on: Research on	Industry-Univ	ersity-Res	search Practice	e Teaching Sy	ystem Bas	sed on		
the Pers	spective of Excell	ent Engineers,	2019-202	0, Project Lead	ler.				
[4]. Ger	ieral Project of H	unan Provincia	al Depart	ment of Educa	tion: Process	s Charact	eristics		
of Antir	nony-containing `	Wastewater Co	-precipit	ation with Iron	and Antimo	ony and			
Regulat	ion Mechanism o	f Antimony M	orphology	y (Xiangjiaotor	ng [2020] No	. 264, Pro	ject No.		



20C0343), 2020-2023, Project Leader.

[5] General Project of Hunan Provincial Department of Education: Research on

Photocatalytic Degradation of Typical Persistent Organic Pollutants by Electric Field

Regulated Carbon Nanofibers (Xiangjiaotong [2023] No. 361, Project No. 23C0325),

2023-2025, PI.

Scientific papers

Wei Zhang,Nan Li, Caiwen Wang, Guangchao Li,Julong Sun ,Shumin Zhu\*. Elimination of micropollutants by the solar/chlorine process: contribution of reactive species and formation risk of NDMA. Environmental Science Water Research & Technology,2022,8(6),1252-1260.

**Educational Reform Papers** 

[1]. Wang Caiwen. Reform and practice of graduation design teaching under the background of engineering education accreditation of water supply and drainage science and engineering[J].Modern Real Estate,2016,43(18),:217-218.)

[2]. Wang Caiwen. Construction and Practice of Professional Practice Teaching System of

Water Supply and Drainage Science and Engineering from the Perspective of Outstanding Engineers[J]. Modern Property,2017,(10):158-159.]

[3]. Wang Caiwen. Exploration of Practical Teaching Reform for Cultivating Outstanding

Engineers in Water Supply and Drainage Science and Engineering through

Industry-University-Research Combination Education[J]. Education,2016,10(8):130.]

[4]. Wang Caiwen. Education strategy of industry-university-research combination of water

supply and drainage science and engineering[J].Examination Weekly,2017,100,26

[5]. Wang Caiwen. Teaching reform of water supply and drainage pipe network system

course based on the training of outstanding engineers[J]. Tribune of Science and Technology

Economics,2019,27(32):158.)

patent

not

Scientific research awards

[1]. Research and application technology of multi-walled carbon nanotube-supported TiO2 adsorption and photodegradation of chlorobenzene, third prize of Hunan Science and



Technology Progress Award (ranked fourth), December 2016.

**Teaching awards** 

[1]. Research and Practice on the Training Model of Water Supply and Drainage Science and

Engineering Professionals Oriented by "Engineering Ability Output", Third Prize of Hunan

Provincial Teaching Achievement Award (ranked fifth), January 2016

**Publication of monographs/books** 

[1]. Water Pump and Water Pumping Station, Associate Editor-in-Chief, Peking University

Press, 2014

**Engineering background** 

[1]. Construction drawing design of water plant in Jindong Management District, Yongzhou

City, 2016

[2]. Design of outdoor supporting sewage treatment station in the first phase of the food

industrial park of Yuanjiang High-tech Zone, 2019

[3]. Construction drawing design of water supply and pressurization pumping station on

Jinpen North Road, Taojiang County Economic Development Zone, 2020



	e and Engineerin		<u>-</u>			AUNTRY CITY	UNIVERSI		
name	Jiang Haiyan	gender	woma n	Date of birth	1988.1	job title	lectur er		
Highe st acade mic qualif icatio ns	graduate student	Highest degree	Maste r	mailbox	125890109@qq.com				
Educati	ion								
2006.09-2010.07, Bachelor of Engineering, School of Chemical and Environmental									
Engineering, Shenyang University of Technology									
2010.09-2013.07, Master of Engineering, College of Urban Construction, University of South									
China									
2021.09	-2022.07, Visiting	Scholar, Scho	ol of Civil	Engineering,	Hunan Univ	ersity			
Scientif	ic research and e	ducation reform	n project	8					
Genera	l Project of the D	epartment of E	ducation	: Preparation (	of Sodium A	lginate/Gr	aphene		
Oxide (	Composite Film a	nd Its Adsorpti	ion Perfo	rmance on Cu(	II) (16C0303	3), 2016-20	)20,		
Project	Leader.								
[2]. Yiy	ang Science and T	Technology Pro	ject: Rec	ognition and M	Iechanism of	f Cu(II) Io	n		
Blotting	g Composite Men	ibrane on Cu(I	I) (No. 20	)15JZ24), 2015	-2019,  Proje	ct Leader.			
Scientif	ic papers								
[1]. Jiai	ng Haiyan, Zhou S	Shukui, Zeng (	Guangmir	ıg. Adsorption	kinetics and	adsorptio	on		
thermo	dynamics of U(VI	) by insoluble	humic aci	ids[J].Journal	of Safety and	l Environ	mental		
Engine	ering,2015,15(1):1	193~198.) (CSC	CD)						
[2]. Jiai	ıg Haiyan, Zhang	g Wei, Zhou Sh	ukui. Ads	orption perfor	mance and i	nechanisr	n of		
humic a	cid-modified atta	pulgite rod on	U( VI)[J]	.Chinese Jour	nal of Envir	onmental			
Engine	ering,2015, 9(2):7	05~710. (CSCI	))						
[3]. Jiai	ng Haiyan, Duan	Yi, Liu Yuqi. T	etracyclir	e removal from	n wastewate	r by calci	ned		



kaolin activation of monosulfate[J].Chinese Journal of Environmental Engineering,2020, 14(9):2494~2550. (CSCD)

[4]. Jiang Haiyan, Duan Yi, Wang Aihe. Study on the adsorption of Cu(II) in water by cross-linked sodium alginate-hydroxyethylcellulose composite membrane[J].Journal of

Hunan City University (Natural Science Edition),2020, 29(1):75~78.)

[5]. Haiyan Jiang, Yi Duan, Hao Li, Aihe Wang.New insight into highly efficient removal of

tetracycline by calcined hydroxyapatite activated peroxymonosulfate: The role of calcium

carbonate and phosphate group [J]. Journal of Water Process Engineering, 2023, 55:104207.

**Educational Reform Papers** 

[1]. Jiang Haiyan, Zhang Wei. Discussion on the practical teaching reform of water supply and drainage science and engineering based on the registered engineer system[J].Science and Technology Innovation Herald, 2015, 4: 158-159.

[2]. Jiang Haiyan, Wang Aihe, Li Hao. Dilemmas and countermeasures faced by water

treatment biology courses in applied undergraduate colleges[J].Education and Teaching

Forum,2020,32(8):315-316.)

patent

[1]. Jiang Haiyan, Duan Yi, Zhang Wei. Invention patent, patent number: ZL 2015 1

0885424.5, authorization announcement date: 2018.6.8.

Scientific research awards

not

Teaching awards

In 2015, he won the first prize of the modern education technology application competition

of Hunan City University.

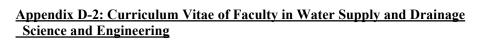
[2]. Household Sewage Treatment and Reuse System, Hunan College Student Challenge Cup, Provincial Third Prize, 2015.

[3]. Gold Medal Instructor of the 3rd "BEWG Cup" of the National College Students' Municipal Environment Innovation and Practice Ability Competition2021.11.

Publication of monographs/books



#### Engineering background





name	Deng Yumei	gender	woma n	Date of birth	1989.11 title er				
Highe st acade mic qualif icatio ns	graduate student	Highest degree	Maste r	mailbox	dym909163@168.com				
Educati	ion								
2008.09-2012.07, Bachelor of Engineering, School of Hydraulic Engineering, Changsha									
University of Science and Technology									
2012.09-2014.07, School of Hydraulic Engineering, Changsha University of Science and									
Technol	logy, M.S								
Scientif	ic research and e	lucation reform	m project	5					
[1]. Hu	nan Provincial Ed	ucation Scienc	e "14th F	ive-Year Plan	" Project: Re	esearch or	the		
Constru	iction of Evaluati	on Index Syste	m for the	Cultivation of	f High-qualit	y Applied	Talents		
in the C	Context of Profess	ional Certifica	tion, 2023	.03-2026.03, u	nder researc	h, project	leader.		
Departi	ment of Education	ı General Proj	ect: Effec	t of CTAB/Ult	rasonic Com	bination	on		
Activat	ed Sludge Dewate	ring Performa	nce (18C	0840), 2018-20	20, Project I	leader.			
[2]. Scie	ence and Technolo	ogy Program of	f Hunan (	City University	: Effect of <b>N</b>	licrowave	:		
Quench	ing and Temperii	ng on Sludge D	ewatering	g Performance	e (No. 2016X.	J14), 2016	-2017,		
Project	Leader.								
[3]. Edu	ication Reform P	roject of Huna	n City Un	iversity: Pract	tice and Exp	loration o	f		
Labora	tory Opening and	Management	Mechanis	sm Based on th	ne Applicatio	n-oriente	d Talent		
Trainin	g Model (Xiangch	eng Yuanfa [2	016] No. 5	51-12), 2016-20	)17, Project	Leader.			
[4]. Nat	ional Natural Sci	ence Foundatio	on of Chir	a: Research o	n the mecha	nism of ac	ction of		
modifie	d shell powder/C	e-N-TiO2 adso	rption and	d photocatalyt	ic degradati	on of typi	cal		
dissolve	ed organophospho	orus (42071122	), 2020-20	24, participan	t				



[5]. Outstanding Youth Project of Hunan Provincial Department of Education: Mechanism and kinetics of sulfur dioxide reduction and decomposition of zinc cadmium ferroate (No. 16B049), 2016-2019, (ranked second).

Scientific papers

[1]. Yumei Deng; Jie Deng; Chun Zhang ; Sponge City and Water Environment Planning and Construction in Jibu District in Changde City, Sustainability, 2022, 15(1): 444-461.

[2]. Deng Yumei, Xie Min, Yan Hengzhen, Li Hao. Effect of freezing and tempering on dewatering performance of activated sludge[J].Chinese Journal of Environmental Engineering,2017,11(7):4362-4366(CSCD).

[3]. Deng Yumei, Yang Chuhui, Yu Donghui, et al. Study on the preparation of activated carbon adsorbents from residual sludge and their adsorption properties[J].Hunan City University(Natural Science Edition),2017,26(3):70-73.)

[4]. Deng Yumei, Yan Hengzhen, Li Hao, et al. Design and application of urban rain garden:based on the climatic conditions of Yiyang City[J].Hunan City University(Natural Science Edition),2020,29(2):20-23.)

[5]. Yan Tao, Deng Yumei<sup>\*</sup>, Chen Wen, Yi Wei. Discussion on the current situation and treatment countermeasures of ecological pollution in Dongting Lake[J].Management and Technology of Small and Medium-sized Enterprises,2020,(10):32-33

**Educational Reform Papers** 

[1]. Deng Yumei, Yan Hengzhen. Exploration and practice of open mode of water supply and drainage science and engineering laboratory in applied universities[J].Guangdong Chemical Industry,2016,43(18),:217-218.)

[2]. Deng Yumei, Yan Hengzhen. Exploration of experimental teaching system of water supply and drainage science and engineering based on professional evaluation[J].Science & Technology Information,2017,(10):158-159.)

[3]. Deng Yumei, Zhang Chun, Li Hao. Exploration of the Teaching Reform of Water
Resources Utilization and Protection[J]. Industry & Technology Forum,2019,18(22):171-172.
[4]. Deng Yumei, Zhou Shuiqiang, Zhang Chun, Deng Jie, Zhou Jun. Research on the
improvement of teachers' teaching ability oriented to improve students' ability to solve



complex engineering problems[J].2020,19(23):254-255.)

patent

[1]. Deng Yumei, Zhou Shuiqiang. Utility model patent, patent number: ZL 2017 2

0345653.2, authorization announcement date: 2017.11.3.

[2]. Deng Yumei, Yu Donghui, Li Hao, Zhou Shuiqiang. A magnetic field generating device

that can adjust the strength and direction of the magnetic field [P]. Utility model patent,

patent number: ZL 2017 2 0345651.3, authorization announcement date: 2018.2.9.

Scientific research awards

[1]. Deng Yumei, Xie Min, Yan Hengzhen, Li Hao. Effect of freezing and tempering on the

dewatering performance of activated sludge. Third Prize of the 3rd Natural Science

Outstanding Academic Achievement Award of Yiyang City, 2019.

**Teaching awards** 

[1]. Second Prize of Classroom Teaching Competition for Teachers of Hunan City University,

2020.07.

[2]. In 2020, he was awarded the honorary title of Outstanding Teacher of Hunan City University.

[3]. Design of urban rain garden based on climatic conditions in Hunan Province. The First

Hunan Provincial College Students' Comprehensive Utilization of Water Resources

Innovation Design Competition, Second Prize, 2016.

**Publication of monographs/books** 

not

**Engineering background** 



	e and Engineerin		<u>curty m v</u>	ater Suppry a		HUNNER	UNITED		
name	Lu Sen	gender	woma n	Date of birth	1990.12	job title	lectur er		
Highe st acade mic qualif icatio ns	graduate student	Highest degree	Maste r	mailbox	751742323@qq.com				
Educat	ion								
2007.09-2011.06, Bachelor of Engineering, Department of Urban Construction, Hunan City									
University									
2012.09-2015.06, School of Urban Construction, University of South China, Master of									
Engine	ering								
2022.09	-present, School	of Resources, E	nvironm	ent and Safety	Engineering	, Universi	ity of		
South C	China, Ph.D. in Ei	ngineering							
Scientif	ïc research and e	ducation reform	n project	S					
[1].Hur	an City Universi	ty Open Projec	t: Resear	ch on Rural D	rinking Wate	er Safety a	and		
Early V	Varning Mechanis	sm, 2020-2021,	PI.						
[2].Res	earch on the Refo	rm of Ideologi	cal and Po	olitical Teachin	ng of Instrum	nentation	and		
Control	Course of Water	• Supply and D	rainage E	ngineering un	der the Back	ground o	f "New		
Engine	ering + Professior	al Certification	n" of Hur	ıan City Unive	rsity, 2021.1	2-2023.11	,		
Project	Leader.								
[3].Hur	an Provincial De	partment of Ec	lucation <b>S</b>	Scientific Resea	arch Project:	: Prepara	tion of		
amidox	ime silica and tre	atment of uran	ium (VI)	-containing wa	stewater Eff	icacy,			
2021.11	-2023.11, Project	Leader.							
Scientif	ïc papers								
[1]. Lu	Sen. Analysis of I	nfluencing Fac	tors of G	raduate Emplo	oyability[J].	Quality			
Manag	ement,2017,10(7):	199-200.							



[2]. Xiong Zhengwei, Lu Sen, Yang Bohao, Wang Zhiyong, Yu Qingwei. Study on the Effect

of Filling Rate on Aeration Contact Oxidation Process of Hanging Chains[J]. Environmental

Science and Technology,2014,37(5):164-168.] (CSCD)

[3]. Xiong Zhengwei, Lu Sen, Wang Zhiyong, Yu Qingwei, Yang Bohao, Sun Ping. Treatment

of River Wastewater by Hanging Chain Biological Contact Oxidation Process[J]. Chinese

Journal of Environmental Engineering,2014,8(7):2748-2752.] (CSCD)

[4]. Lu Sen, Yin Yueqiang, Shu Jinkai. Preparation of functionalized ethyl SiO2 by amidoxime and its adsorption of U(VI.)[J].Natural Science,2023,5(9):1-3.)

**Educational Reform Papers** 

Lu Sen, Shu Jinkai." Exploration of teaching reform of "Water Supply and Drainage Instrumentation and Control" under the background of "new engineering + professional certification"[J].China Teaching Work,2023,9(72):127.)

patent

[1]. Lu Sen, Xiao Han, Duan Hongling, Yin Yueqiang. A kind of sewage treatment dosing

device. National Invention Patent, Patent No.: ZL201810734982.5, Authorization

Announcement Date: 2020.6.26.

[2]. Wang Jinsong, Lu Sen, Xiong Zhengwei, Xie Shuibo, Tang Zhenping, Xu Hua, Tang

Xiaolin, Yang Jinhui, Li Xia. Preparation method of mesoporous silica with oxime ethane

bridge bond, invention patent, patent number: ZL 2014 1 0853527.9, authorization

announcement date: 2017.7.14.

[3]. Yin Yueqiang, Su Jian, Lu Sen. An automatic drainage device for the construction of

water conservancy projects[P].Utility model patent, patent number: ZL201920201104.7,

authorization announcement date: 2019.11.26

[4]. Yin Yueqiang, Su Jian, Lu Sen. A new embankment maintenance device for water

conservancy project[P].Utility model patent, patent number: ZL201920466336.5,

authorization announcement date: 2019.12.27

[5]. Yin Yueqiang, Su Jian, Lu Sen. A water garbage collection device for water conservancy

projects[P].Utility model patent, patent number: ZL201920201026.0, authorization

announcement date: 2019.11.26

Scientific research awards



#### **Teaching awards**

not

#### Publication of monographs/books

not

#### **Engineering background**

# Appendix D-2: Curriculum Vitae of Faculty in Water Supply and Drainage



	<u>lix D-2: Curriculı</u> e and Engineerin		<u>culty in V</u>	Vater Supply	and Drainag	<u>e</u>	A LI LES		
name	Li	gender	woma n	Date of birth	1991.02	job title	Experim enter		
Highe st acade mic qualif icatio ns	graduate student	Highest degree	Maste r	mailbox	329474911@qq.com				
Educati	ion								
2008.09	-2012.07, Bachelo	or of Engineeri	ng, Schoo	l of Hydrauli	c Engineerin	g, Chan	gsha		
University of Science and Technology									
2012.09	2012.09-2015.07, School of Hydraulic Engineering, Changsha University of Science and								
Techno	logy, M.S								
Scientif	ic research and e	ducation reform	m project	S					
	neral Project of th	-			-				
	e polyacrylamide		s applicat	ion in sludge	quenching a	nd temp	ering		
	76), 2019-2021, Pi								
	) Ministry of Edu			• •					
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	5), 2020-2022, Pro	0		ui se (zitalige	ucing Tuan Ji	au <b>2</b> 1 111	<b>J</b> •		
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	ement of Applied	Ū.	•	·					
	tion" (Xiangchen	C				0	U		
	118, Project Lead	_		· · · · · · · · · · · · · · · · · · ·		1	,7		
	,								



[5]. 2020 Open Project of the Engineering Technology Research Center of "Drinking Water Quality Safety Assurance in Villages and Towns in Hunan Province", Hunan City University: Preparation of Ti/IrO2 Electrode and Its Removal of Tetracycline Organic Pollutants in Water, 2020-2022, Project Leader. **Scientific papers** [1]. Li Hao, Xie Min, Wang Aihe, Jiang Haiyan. Effect of ultrasonic combined with CPAM on sludge structure and dewatering performance[J].Popular Standardization, 2020(22): 182-183.) [2]. Li Hao, Wang Aihe. Study on adsorption performance of modified tea pomace/kaolin composites on ammonia nitrogen in water[J].Journal of Hunan City University (Natural Science Edition),2017,26(06):76-78.) **Educational Reform Papers** [1]. Li Hao, Wang Aihe, Zhang Chun, Jiang Haiyan. Exploration of the application of virtual simulation project in the online teaching of "water quality engineering experiment"[J].Education and Teaching Forum,2020(45):274-275.) [2]. Li Hao, Wang Aihe, Deng Yumei. Research on the construction and management of applied undergraduate innovation laboratory based on "engineering and innovation"[J].Education and Teaching Forum,2019(18):271-272.) [3]. Li Hao, Yan Hengzhen, Deng Yumei. Research on CAD course of water supply and drainage engineering based on improving engineering ability[J].Value Engineering,2018,37(05):183-184.) patent [1]. "A sewage treatment system sewage treatment tank" (ZL201922285344.2), utility model patent Scientific research awards not **Teaching awards** [1]. Second Prize of Teacher Informatization (Wisdom) Classroom Teaching Competition of Hunan City University, 2020.07.

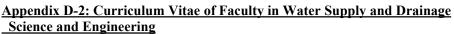


[2]. Third Prize of Teachers' Informatization Teaching Competition of Hunan City University, 2017.07
Publication of monographs/books
not
Engineering background
not

# Appendix D-2: Curriculum Vitae of Faculty in Water Supply and Drainage \_



name	Shu Jinkai	gender	man	Date of birth	1992.07 job title			
Highe st acade mic qualif icatio ns	graduate student	Highest degree	Mast er	mailbox	877126365@qq.com			
Educati	on							
Surveyi	-2016.06, B.S., W ng Engineering, l -2020.06, M.S., Se	Hunan City U	niversity			-		
Univers	ity							
Scientif	ic research and e	ducation refor	rm projec	ts				
[1]. Ger	eral Project of th	e Departmen	t of Educa	tion: Study o	n the Efficac	y of Hydi	raulic	
Cavitat	ion and MWCNT	s/TiO2 Photo	catalytic (	Combined Tre	eatment of Py	ridine-co	ontaining	
Wastew	ater (20C0366), I	Principal Inve	stigator.					
[2]. You	th Project of Yiya	ang Federatio	n of Socia	l Sciences: Re	search on He	eavy Meta	al Pollution	
Control	Countermeasure	es in Dongting	Lake und	ler the Double	e Carbon Go	al (2023Y	(8153),	
Princip	al Investigator.							
[3]. Edu	cation Reform P	roject of Huna	an City U	niversity: Res	earch on the	Teaching	g Reform of	
Hydrau	lics Curriculum i	in the Context	t of Engin	eering Educat	tion Accredit	ation (202	22),	
Princip	al Investigator.							
Scientif	ic papers							
[1]." Inf	fluencing Factors	and Kinetics	of Modifi	ed Shell Powd	ler/La-Fe-Ti	O2 Photo	catalytic	
	ation of Pyridine	Wastewater."	Internati	onal journal c	of environme	ntal resea	arch and	
Degrad				•10 3390/iiern	h192214835			
U	nealth vol. 19,22 1	4835. 11 Nov.	2022, doi:	.10.0090/ijeip				
public h	ealth vol. 19,22 1 of Hunan City U				021,30(06):6	9-72.)		
public h Journal		niversity (Na	tural Scien	nce Edition),2			d	
public f Journal [3].Acco	of Hunan City U	niversity (Na	tural Scien	nce Edition),2			d	





[5]." Research on heavy metal pollution control countermeasures in Dongting Lake under the goal of "double carbon"[J].Papermaking Equipment and Materials,2023,52(07):147-149.) **Educational Reform Papers** [1].Reflections on the teaching of the course of "Fundamentals of Water Process Equipment" under the background of smart water[J].National Wenhui,2022.52. Research on the teaching reform of hydraulic courses under the background of engineering education accreditation[J].Charm China,2023,36:58-60 patent [1]. A sewage treatment device, State Intellectual Property Office, 2023233476028, utility model patent (accepted), first. Scientific research awards [1]. The 5th Natural Science Outstanding Academic Achievement Award of Yiyang City, 2023, first. **Teaching awards** not **Publication of monographs/books** not **Engineering background** not



Science an	d Enginee						STATE CITY UNITED		
name	Deng Zhennin g	gender	man	Date of birth	1995.10	job title	lecturer		
Highest academic qualificati ons	graduate student	Highest degree	docto r	mailbox	dengzn202@163.com				
Education									
<ul> <li>2013.09-2017.06, Hunan City University, Bachelor of Engineering, Water Supply and Drainage</li> <li>Science and Engineering</li> <li>2017.09-2020.06, University of South China, Master of Engineering, Civil Engineering</li> <li>2020.09-2024.06, Ph.D. in Environmental Science and Engineering, Nanchang University</li> </ul>									
Scientific research and education reform projects									
[1]. 2024 Hunan Provincial Department of Education Scientific Research General Project -									
		-		d Adsorbents for					
Research on	Efficient C	Capture Mechar	nism (24	C0467, 10,000 F	RMB, Principa	l Investig	ator).		
Scientific p	apers	-							
[1].Zhennin	i <b>g Deng</b> , Yi	Liu, Mingwei	Wan, Sh	engya Ge, Zhiw	ei Zhao, Jingw	ven Chen	, Shixia		
Chen, Shugi	uang Deng,	Jun Wang. Bre	aking tra	ade-off effect of	Xe/Kr separat	ion on m	icroporous		
and heteroat	coms-rich ca	arbon adsorben	ts. Separ	ation and Purific	cation Technol	ogy, 202	3, 308,		
122942-122	948.(JCR S	CI Zone 1 TOI	P Journal	).					
[2] Zhennin	ig Deng, Lo	ongsheng Yang	, Hanting	g Xiong, Junhui	Liu, Xing Liu,	Zhenyu	Zhou,		
Jingwen Ch	en, Shixia (	Chen, Shuguang	g Deng, I	Banglin Chen, Ju	un Wang. Gree	en and Sc	alable		
Preparation	of an Isome	eric CALF-20 A	Adsorber	nt with Tailored 1	Pore Size for N	Aolecular	Sieving of		
Propylene fi	om Propan	e. Small Metho	ods, 2024	l, 2400838. <b>(</b> JCR	SCI Zone 1 Jo	ournal).			
[3] Junhui L	iu, Hanting	Xiong, Hua Sl	nuai, Xir	ng Liu, Yong Per	ng, Lingmin W	ang, Pen	gxiang		
Wang, Zhiw	ei Zhao, <b>Z</b> l	nenning Deng,	Zhenyu	Zhou, Jingwen	Chen, Shixia C	Chen, Zhe	eling Zeng,		
Shuguang D	eng, Jun W	ang. Molecular	sieving	of iso-butene fro	om C4 olefins	with sim	ultaneous		
high 1,3-but	adiene and	n-butene uptak	es. Natu	re Communicati	ons, 2024, 15,	2222.(N	ature, JCR		



SCI Zone 1 TOP Journal).

[4] Yong Peng, Hanting Xiong, Peixin Zhang, Zhiwei Zhao, Xing Liu, Shihui Tang, Weizhen Zhou, Zhenning Deng, Junhui Liu, Yao Zhong, Zeliang Wu, Jingwen Chen, Zhenyu Zhou, Shixia Chen, Shuguang Deng, Jun Wang. Interaction-selective molecular sieving adsorbent for direct separation of ethylene from senary C2-C4 olefin/paraffin mixture. Nature Communications, 2024, 15, 625.(Nature, JCR SCI Zone 1 TOP Journal).

[5] Hanting Xiong, Yong Peng, Xing Liu, Pengxiang Wang, Peixin Zhang, Longsheng Yang, Junhui Liu, Hua Shuai, Lingmin Wang, Zhenning Deng, Shixia Chen, Jingwen Chen, Zhenyu Zhou, Shuguang Deng, Jun Wang. Topology Reconfiguration of Anion-Pillared Metal-Organic Framework from Flexibility to Rigidity for Enhanced Acetylene Separation. Advanced Materials, 2024, 2401693.(JCR SCI Zone 1 TOP Journal).

[6] Zhiwei Zhao, Ke Wu, Yong Peng, Yi Liu, Zhenning Deng, Xinxin Han, Shixia Chen, Jingwen Chen, Shuguang Deng, Jun Wang. Microporous Carbon Granules with Narrow Pore Size Distribution and Rich Oxygen Functionalities for Xe/Kr Separation. Separation and Purification Technology, 2022, 122074..(JCR SCI Zone 1 TOP Journal).

[7] Zhiwei Zhao, Hanting Xiong, Yong Peng, Xing Liu, Pengxiang Wang, Junhui Liu, Zhenning Deng, Shixia Chen, Jingwen Chen, Zhenyu Zhou, Shuguang Deng, Jun Wang. Pore Environment Modulation of Metal Organic Frameworks Enables Efficient Adsorptive Separation of Xe/Kr.

Separation and Purification Technology, 2023, 308, 124529..(JCR SCI Zone 1 TOP Journal).

[8] Liu Qing, Deng Zhenning, Hua Yilong, et al. Research progress on green synthesis of

nanoferron and its application in the environment[J].Progress in Chemical

Industry,2020,39(05):1950-1963(EI, Journal of Excellence).

[9] Zhao Guodong, Ling Xianyong, Deng Zhenning, et al.Research on green synthesis of

FeCu/BT and its uranium removal performance[J].Industrial Water

Treatment,2020,40(12):83-87(CSCD, Core Journal).

#### **Educational Reform Papers**

not

patent



#### Scientific research awards

not

**Teaching awards** 

not

Publication of monographs/books

not

#### Engineering background