CURRICULUM VITAE

PERSONAL INFORMATION

(1) Name: Jaewoo Chung

(2) Date of Birth: October 30, 1967

(3) Place of Birth: Sangju, Republic of Korea

- (4) Present Address: 106-706, Deulmal-Heunghan Apt., Peungguedong, Jinju 660-776, Republic of Korea
- (5) Affiliation: Deptartment of Environmental Engineering, Gyeongnam National University of Science and Technology (GNTECH), Jinju 660-758, Republic of Korea
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EDUCATIONAL **B**ACKGROUND

Ph.D. Environmental Science and Engineering

Sep. 1996 - Aug. 2000

Pohang University of Science & Technology (POSTECH), Pohang, Korea

Thesis: Physico-Chemical Characteristics of Corona Discharge Process for NOx and SOx Removal

Advisors: Prof. Moohyun Cho and Prof. Won Namkung

M.S. Civil Engineering

Mar. 1994 - Feb.1996

Korea Advanced Institute of Science and Technology (KAIST), Daejeon, Korea

Thesis: The Characteristics of Medical Waste Treatment by Electric Arc Plasma Process

Advisor: Prof. Jakong Koo

B.S. Environmental Engineering

Mar. 1987 – Feb. 1994

Yeungnam University, Daegu, Korea

HONRS AND **A**WARDS

Listed in Who's Who in the World (Marquis;	2014)	Nov. 2013-Nov. 2019
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Award for academic excellence Sept. 2013, Sept. 2018

Gyeongnam Natioanl University

Award for excellent industry-university collaboration Sept. 2014- 2015

Gyeongnam Natioanl University

Award for excellent paper presentation Sept. 2011

Korean Geo-Environmental Society, 2013 Annual meeting, Seoul, Korea. Sept. 27, 2013

Award for excellent paper presentation Nov. 2011

Korean Society of Civil Engineers, 2011 Annual meeting, Goyang (KINTEX), Korea. Nov. 2-4, 2011

Guest editor of 'Thin Solid Film'

Aug. 2011

Thin Solid Film, Vol. 519, No. 20, Special issues for 10th Asia-Pacific Conference on Plasma Science and Technology

Award for excellent paper presentation

Nov. 2008

Korean Society of Waste Management, 2008 Autumn meeting, Incheon, Korea. Nov. 12-15, 2008

Award for excellent paper presentation

May. 2004

Korean Society for Atmospheric Environment, 2004 Spring meeting, Incheon, Korea, May 13-16, 2004

Postdoctoral Fellowship of Korea Research Foundation (KRF)

Sep. 2005 - July 2006

PROFESSIONAL EXPERIENCE

Head of Innovation Center for Engineering Eduction	Sep. 2012 – Aug. 2015	
Gyeongnam National University of Science and Technology, Korea		
Head of Green Technology Institute	Sep. 2012 – Aug. 2014	
Gyeongnam National University of Science and Technology, Korea		
Head of Enviornmental Research Institute	Sep. 2010 – Aug. 2012	
Gyeongnam National University of Science and Technology, Korea		
Professor, Associate Professor, Assistant Professor, Full time Lecturer	Sep. 2001 – Present	

Department of Environmental Engineering, Gyeongnam National University of Science and Technology, Korea \Rightarrow as a faculty member and the head of EEL(Environmental Energy Laboratory), involved activities are class teaching, MS student thesis guide, funded project execution.

Visiting Scholar Aug. 2005 – July 2006

Department of Chemical Engineering, Florida State University, USA → had chance to research on electrical discharge processes for wastewater treatment.

Postdoctoral Researcher

Sep. 2000 - Aug. 2001

Pohang Accelerator Laboratory, Pohang, Korea → had chance to learn high voltage engineering for atmospheric plasma generation using high voltage pulse and high voltage AC power system.

Education and Research Assistant

Sep. 1996 – Aug. 2000

School of Environmental Science and Engineering, Pohang University of Science and Technology (POSTECH), Pohang, Korea

PROFESSIONAL **S**OCIETIES

Editorial Advisory Board, Journal of Korean Society of Environmental Engineers

Editorial Advisory Board and Director, Journal of Korea Organic Resource Recycling Association

Editorial Advisory Board, Journal of Environmental and Thermal Engineering

Drector, Korean Society of Environmental Engineers

Drector, Korean Society for Atmospheric Environment

Member, The Korean Environmental Sciences Society

Member, Korea Society of Waste Management

RESEARCH INTERESTS

- (1) Thermal Plasma Gasification of Municipal Solid Wastes (MSWs) and Coal
- (2) Climate Changes and Renewable Energy Productions
- (3) Remediation Technologies for Contaminated Soils and Groundwaters
- (4) Air Pollution Control Technologies (Pulse Energization ESP, etc.)
- (5) Environmental Applications of Electrical Discharges for Gaseous Pollutant Treatment
- (6) Advanced Oxidation Technologies such as Ozone, Photo-catalyst, etc.
- (7) Electrical energy production from organic wastewater (MFCs: microbial fuel cells)
- (8) Management of Public Complaints caused by Environmental Concerns

REFERENCES

(1) Professor Moo Hyun Cho

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BOOK **C**HAPTER

(1) "Thermal Plasma Gasification of Municipal Solid Wastes (MSWs)" in *Gasification for Practical Applications* (ISBN 980-953-307-245-1), INTECH, 2012

PUBLICATIONS

- Seong Yong Park, Sung Ae Jung, Sang Jo Lee, Jae Woo Chung, "Strategies for Acceleration of Damaged Area Restoration Project in the Development Restriction Zone" J. People Plants Environ. Vol. 22 No. 6: 641-651, 2019
- 2) Myoung Eun Lee, Jin Hee Park, Jae Woo Chung, "Comparison of the lead and copper adsorption capacities of plant source materials and their biochars," **Journal of Environmental Management** 236(15), 118-124, 2019
- 3) Juhee Shin, Si-Kyung Cho, Joonyeob Lee, Kwanghyun Hwang, Jae Woo Chung, Hae-Nam Jang, Seung Gu Shin, "Performance and Microbial Community Dynamics in Anaerobic Digestion of Waste Activated Sludge: Impact of Immigration" **Energies** 12(3):573, 2019
- 4) Sang Jo Lee, Keun Young Huh, Jae Woo Chung, "Changes in parks and green spaces ratio according to land ownership processing method in urban development, **Journal of People, Plants, and Environment**, Vol. 21, No. 6, pp. 545-555, 2018
- 5) Jaewoo Park, Nour F. Attia, Minji Jung, Myoung Eun Lee, Kiyoung Lee, Jae Woo Chung, Hyunchul Oh, Sustainable nanoporous carbon for CO2, CH4, N2, N2, H2 adsorption and CO2/CH4 and CO2/N2 separation, **Energy**, Vol. 158, pp. 9-16. 2018
- 6) Myoung Eun Lee, Jin Hee Park, Jae Woo Chung, "Adsorption of Pb(II) and Cu(II) by ginkgo-leaf-derived biochar produced under various carbonization temperatures and times," **International Journal of Environmental Research and Public Health**, Vol. 14, No. 2, 2017
- 7) Youngtae Ahn, Seongwon Im, Jae Woo Chung, "Optimizing the operating temperature for microbial electrolysis cell treating sewage sludge," International Journal of Hydrogen Energy, Vol. 42, No. 45, pp. 27784-27791, 2017
- 8) Pattarasiri Fagkaew, Kaiwit Ruengruehan, Jae Woo Chung, Seoktae Kang, "Relating intrinsic membrane water permeability and fouling propensity in forward osmosis process," **Desalination and Water Treatment**, Vol. 77, pp. 122-128, 2017
- 9) Yongtae Ahn, Se-Yeon Jo, Young Chae Song, Wontae Lee, Jae Woo Chung, "Application of reticulated vitreaous carbons doped with low-cost catalyts as the cathodes in microbial fuel cells," **KSCE Journal of Civil Engineering**, Vol. 21, No. 3, pp. 623-628, 2017

- 10) Jin Hee Park, Seul Ji Lee, Myoung Eun Lee, Jae Woo Chung, "Comparison of heavy metal immobilization in contaminated soils amended with peat moss and peat moss-derived biochar," Environmental Science & Process Impacts, Vol. 18, No. 4, pp. 514-520, 2016
- 11) Jae Woo Chung, Myoung Eun Lee, Seok Tae Kang, Nanthi S. Bolan, "Concentration distribution of carbonyl compounds in an industrial shipbuilding complex," KSCE Journal of Civil Engineering, Vol. 18, No. 4, pp. 927-932, 2015
- 12) Myoung Eun Lee, Jin Hee Park, Jae Woo Chung, Chae Young Lee, Seoktae Kang, "Removal of Pb and Cu ions from aqueous solution by Mn3O4-coated activated carbon," **Journal of Industrial and Engineering Chemistry**, Vol. 21, pp. 470-475, 2015
- 13) Seul-Ji Lee, Jin Hee Park, Yong-Tae Ahn, Jae Woo Chung, "Comparison of heavy metal adsorption by peat moss and peat moss-derived biochar produced under different carbonization conditions," Water, Air, & Soil Pollution (SCI, IF=1.748), Vol. 226, No. 12, 1711, 2013. doi:10.1007/s11270-013-1711-1, 2015
- 14) Myoung Eun Lee, Jae Woo Chung, Jin Hee Park, Chae Young Lee, Seoktae Kang, "Adsorption of Pb(II) and Cu(II) from aqueous solution by Mn₃O₄-coated activated carbon", *Journal of Industrial and Chemcial Engineering* (SCIE, IF=2.145), Vol. 21, No. , 470, 2014
- 15) Hyeon Don Lee, Jong Oh Kim, Jae Woo Chung, "Degradation of methyl orange by pulsed corona discharge process in water", *Desalination and Water Treatment* (SCIE, IF=0.852), in press, 2013
- 16) Jae Woo Chung, Myoung Eun Lee, Seok Tae Kang, Nanthi Bolan, "Concentration distribution of carbonyl compounds in an industrial shipbuilding complex, Korea", *KSCE Journal of Civil Engineering* (SCIE, IF=0.383), doi10.1007/s12205-013-1360-3 (published online before print), 2013
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- 48) Jae Woo Chung, Ji Hoon Moon, Eun Ok Park, "Effects of operating parameters on phenol degradation by pulsed corona discharges in aqueous solutions", *Journal of Korean Society of Environmental Engineers* (KCI), Vol. 32, pp. 79-86, 2010
- 49) Hyeon Don Lee, Jong Oh Kim, Jae Woo Chung, "Effects of operating parameters on ozone production by plasma gun for ballast water treatment", *Journal of Navigation and Port Research* (KCI), Vol. 34, pp. 205-211, 2010
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- 54) Jae Woo Chung, Young Hwan Lee, Hyun Don Lee, Jung Ho Park, Gee Ill Jun, Kyung Ryoul Park, Moo Hyun Cho, "Effect of operating parameters on electrical and chemical properties in dielectric barrier discharge process for VOC removal", *Journal of Environmental and Thermal Engineering*, Vol. 2, pp. 15-21, 2005
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INVITED TALKS

- 1) Jae Woo Chung, Young Chul Byun, Moo Hyun Cho, "Analysis of thermal plasma technologies for waste gasification and vitrification", Plasma Technology Applications in Industrial Chemistry, 44th KSIEC Meeting, Gachon Univ., Korea (Nov. 2-4, 2011)
- 2) Jae Woo Chung, "Introduction of EEL (Envrionmental Energy Lab.) and MFC study trends in Korea", International Symposium on Green Technology, Plant and Food Research, Palmerstone North, New

- Zealand (Aug. 8-9, 2011)
- 3) Jae Woo Chung, "Application of MFCs for generating electricity from wastewater treatment", Seminar, CRC CARE, University of South Australia, Adelaide, Australia (Aug. 2, 2011)
- 4) Keun Young Huh, Jae Woo Chung, "Assessing soil organic matter dynamics and carbon sequestration in urban grassland", International Symposium on Carbon Management in Urban and Forest Ecosystems, Jinju, Korea (July 16, 2011)
- 5) Jae Woo Chung, Moo Hyun Cho, "Gaseous pollutant removal by nonthermal plasma", Workshop on Advanced Oxidation Technology for Atmospheric Pollution Reduction, Korean Society of Environmental Engineers and Koean Society for Atmospheric Environment, Seoul, Korea (Nov. 30, 2007)
- 6) Jae Woo Chung, "Development and application of high performance electrostatic precipitation system", Symposium for Regional Atmospheric Environment, Jinju, Korea (Dec. 10, 2004)
- 7) Jae Woo Chung, Moo Hyun Cho, "Nox and Sox removal properties of pulsed corona discharges as a function of power density", Seminar, Environmental Research Institute, Jinju, Korea (Nov. 23, 2001)
- 8) Moo Hyun Cho, Jae Woo Chung, "Pulsed power generator for the plasma process for flue gas treatment", Workshop on Simultaneous NOx and SOx Treatment Technologies, Daegeon, Korea (May. 29, 1998)