

CURRICULUM VITAE

Name Jung, Yeon Gil
Birth December 29th, 1966
Nationality Republic of Korea
Current position Professor, Changwon National University
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Education

B.S.: Department of Inorganic Materials Science and Engineering
Hanyang University (03/1985 ~ 02/1989)

M.S.: Department of Inorganic Materials Science and Engineering
Hanyang University (03/1989 ~ 02/1991)
-Thesis: Mechanical and microstructural characterization of ZTA-SiC whisker
composites (Supervisor : Prof. Sung-Churl Choi)

Ph.D.: Department of Inorganic Materials Science and Engineering
Hanyang University (03/1993 ~ 02/1996)
-Thesis: Fabrication and residual stress of zirconia/metal functionally gradient
materials (Supervisor : Prof. Sung-Churl Choi)

Career/experience

04/2008 ~ Present	Changwon National University	Full Professor
04/2018~ Present	Korean Electric Power Corp.	Non-executive Director
01/2018 ~ 12/2018	The Korean Ceramic Society	Vice President
08/2013 ~ 06/2017	Indiana University-Purdue University Indianapolis (IUPUI)	Visiting Scholar & Research Assistant Professor
03/2003 ~ 03/2008	Changwon National University	Associate Professor
08/2003~ 07/2004	National Institute Standards and Technology (NIST)	Visiting Scientist
03/1999 ~ 02/2003	Changwon National University	Assistant Professor
01/1997 ~ 02/1999	NIST	Guest Researcher
03/1996 ~ 10/1998	Research Institute of Industrial Science Hanyang University (Seoul, Korea)	Senior Researcher
03/1996 ~ 02/1997	Dep. of Inorganic Materials Engineering Hanyang University (Seoul, Korea) (Applied Mathematics I and II, Physical Chemistry of solid I and II)	Lecturer
03/1996 ~ 08/1996	Dep. of Materials Engineering Dankook University (Solid Reaction, Human and New Materials)	Lecturer
03/1993 ~ 02/1996	Hanyang University (Seoul, Korea)	Research Assistant
06/1991 ~ 12/1992	Military Service	
03/1990 ~ 02/1991	Hanyang University (Seoul, Korea)	Teaching Assistant
03/1989 ~ 02/1991	Hanyang University (Seoul, Korea)	Research Assistant

Current research fields and interests

- Microstructure design and property evaluation in thermal barrier coatings (TBCs) for gas turbine application
- Development of ceramic mold and core using organic/inorganic binder system
- Post-process in 3D printing technology
- Binder system and coating process for flexible battery and high ion conductivity

- Material design and fabrication of advanced structural ceramics, ceramic-matrix composites, and laminated materials
- Fracture mechanics in Nano- and micro-structure materials

Awards

- “A Governor Citation” from Gyeongsangnam-do Governor, 2013/09/27
- “Progress in Technology” from The Korean Ceramic Society, 2007/11/09
- “Best award in Capstone Design Competition” from The Korean Ceramic Society 2007/03/30
- “Best award in Ceramographics” from The Korean Ceramics Society, 2002/10/18
- “Progress in Academics” from The Korean Ceramic Society, 2001/10/19

Research publication and presentation (From 2010. 01 to Present).

- Publications; “Surface-coverage-dependent cycle stability of core-shell nanostructured electrodes of use in lithium ion batteries” *Advanced Energy Materials*, **4(1)**, 1-6 (2014), and 90 papers or more.
- Presentation; “Carbon particle coated with polymer added ion compound for a fluidized bed electrode” *MCARE2015*, 2015.02.25. , and 250 presentations or more.

Book

- Advanced Ceramic and Metallic Coating and Thin Film Materials for Energy and Environmental Applications, Edited by Jing Zhang and Yeon-Gil Jung, Springer (2017).
- Additive Manufacturing: Materials, Processes, Quantifications and Applications, Edited by Jing Zhang and Yeon-Gil Jung, Elsevier: Butterworth-Heinemann (2018).

Patent (~ Present)

- “METHOD OF MANUFACTURING POROUS CERAMIC BODY AND COMPOSITION FOR POROUS CERAMIC BODY” K087.0031US1USA, and 50 domestic and international patents or more.

Research project (~ Present)

- “Development of core technologies for hot components of gas turbines in large power

plant” 2013.07.01 ~ 2017.06.30, and 40 government and industry grants or more.

Teaching Course

- Undergraduate Course: Composite Materials (English Teaching),
Thermodynamics (English Teaching)
- Graduate Course: Ceramic Processing, Composite Materials, Sintering, Phase Diagram

Journals as Reviewer

- Surface and Coating Technology, Applied Surface Science, Materials Letters
- SCIENCEDOMAIN international, Journal of Nanomaterials, Materials and Design
- Journal of Nanoscience and Nanotechnology, Journal of Materials Science
- Journal of Thermal Spray Technology, Materials Science & Engineering A
- Journal of Alloys and Compounds, Ceramics International, Powder Technology
- ACS Applied Materials & Interfaces,
- Journal of the Korean Institute of Surface Engineering
- Journal of the Korean Ceramic Society, Journal of Korean Powder Metallurgy Institute
- Journal of Crystal Growth and Crystal Technology
- International Journal of Precision Engineering and Manufacturing