

NANO KOREA 2020

July 1~3, KINTEX, Korea

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EDUCATION

Korea Advanced Institute of Science and Technology (KAIST),	Ph.D	Mechanical Engineering	2005
Korea Advanced Institute of Science and Technology (KAIST),	MS	Mechanical Engineering	1999
Korea Advanced Institute of Science and Technology (KAIST),	BS	Mechanical Engineering	1997

PROFESSIONAL ACTIVITIES

- **COORDINATOR (Apr 2019 – Present)**
Smart Industrial Complex of Gyeongsangnam-do Changwon
- **ADVISOR (Dec 2018 – Nov 2020)**
Advisory Committee, Gyeongsangnam-do Provincial Government
- **ASSOCIATE DIRECTOR (Dec 2018 – Present)**
LINC (Leaders IN Industry-university Cooperation) Plus
- **TEAM LEADER (Nov 2018 – Present)**
BK21 Plus Creative HRD Center for Smart-Intelligent Manufacturing Systems
- **DIRECTOR (Nov 2018 – Present)**
Joint Equipment Utilization Center IN Industry-university Cooperation
- **DIRECTOR (Nov 2018 – Present)**
Smart Manufacturing Technology Center (5x-CAM Regional Innovation Center)
- **ASSOCIATE PROFESSOR (Mar 2016 – Present)**
Affiliation: Department of Mechanical Engineering, School of Mechatronics Engineering, Changwon National University
- **VISITING RESEARCHER (Sep 2017-Aug 2018)**
Department of Mechanical Engineering, MIT, Building 3-332, 77 Massachusetts Ave, Cambridge MA 02139

AWARD AND HONORS

- Kislser Korea Technology Award, Oct 2019
- Baekam Papers, Korean Society for Precision Engineering, Oct 2018
- Excellence award, LINC, Changwon national Univ., Feb 2017
- Excellence award, CK-1, Changwon national Univ., Feb 2017
- Excellence award, Merit for university development, Changwon national Univ., Jan 2017

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- Excellence award, LINC Technology development, Changwon national Univ., Feb 2016
- Excellence award, LINC Program execution, Changwon national Univ., Feb 2016
- Best Paper award, Journal of the Korean Society of Manufacturing Process Engineers, Oct 2016
- Best Poster award, IUMRS-ICAM 2015
- Excellence award, The Korean Society for Heat Treatments Aug 2015
- Excellence award, Capstone presentation, Korean Society of Manufacturing Process Engineers, Oct 2015
- Best Paper award, Journal of the Korean Society of Manufacturing Process Engineers, Oct 2015

MAIN SCIENTIFIC PUBLICATION

- Kim, S. J., **Cho, Y. T.**, (2020). Replication and Surface Treatment of Micro Pattern Generated by Entanglement of Nanowires. *Science of Advanced Materials*, 12(3), 403-406(4).
- Jeong, Y., Kim, S., Fang, N. X., Shin, S., Choi, H., Kim, S., ... & **Cho, Y. T.** (2018). Multiscale Structures Aggregated by Imprinted Nanofibers for Functional Surfaces. *Journal of Visualized Experiments*.
- Park, K. B., **Cho, Y. T.**, & Jung, Y. G. (2018). Determination of Johnson-Cook constitutive equation for Inconel 601. *Journal of Mechanical Science and Technology*, 32(4), 1569-1574.
- Oh, Y. H., Jung, Y. G., Hong, H. U., & **Cho, Y. T.** (2018). Effects of anode material oxygen content on molten metal convection generated via arc plasma heating. *International Journal of Heat and Mass Transfer*, 123, 999-1004.
- **Cho, Y. T.**, Jeong, Y. H., Kim, Y. J., Kwon, S., Lee, S. H., Kim, K. Y., ... & Lee, T. M. (2017). Printing Speed and Quality Enhancement by Controlling the Surface Energy of Cliché in Reverse Offset Printing. *Applied Sciences*, 7(12), 1302.
- Kim, J. Y., Oh, N. R., Oh, Y. H., **Cho, Y. T.**, Lee, W. B., Kim, S. K., & Hong, H. U. (2017). Hetero-epitaxial nucleation of ferrite at a TiN encapsulating MgAl₂O₄ during rapid solidification in a newly developed ferritic stainless steel. *Materials Characterization*, 132, 348-353.
- Jeong, Y. C., Jung, Y. G., & **Cho, Y. T.** (2017). Simple monitoring of welding spatter for quantification and observation using a mobile phone. *Advances in Mechanical Engineering*, 9(9), 1687814017725247.
- Jeong, Y. H., Shin, S., Choi, H., Kim, S., Kim, J., Kwon, S., ... & **Cho, Y. T.** (2017). Fabrication of Nano-Micro Hybrid Structures by Replication and Surface Treatment of Nanowires. *Crystals*, 7(7), 215.
- **Cho, Y. T.** (2017). Fabrication of wire grid polarizer for spectroscopy application: From ultraviolet to terahertz. *Applied Spectroscopy Reviews*, 53(2-4), 224-245.

RESEARCH INTERESTS

- Additive Manufacturing
- Nano Micro Fabrication
- Printed Electronics
- Laser Applied Material Processing
- Bio-inspired 4D Printing