

NANO KOREA 2020

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EDUCATION

Yonsei University	Ph.D	Chemistry	2011
Yonsei University	MS	Chemistry	2006
Yonsei University	BS	Chemistry	2004

PROFESSIONAL ACTIVITIES

- Assistant Professor, Department of Chemical and Biological Engineering, Hanbat National University, Korea, Republic of, September 2018 to present.
- Researcher, Y-IBS, Yonsei University, Korea, Republic of, October 2017 to August 2018.
- Post-Doc, Dept. of Molecular Medical and Pharmacology, University of California, Los Angeles, USA, September 2013 to January 2017.

AWARD AND HONORS

- “CEO award in patent strategy part” Patent Universiade, the Korean Industrial Property Office, 2008

MAIN SCIENTIFIC PUBLICATION

- Choi, J.-s.,* Kim, S.*; Yoo, D.; Shin, T.-H.; Kim, H.; Gomes, M. D.; Kim, S. H.; Pines, A.; Cheon, J. (co-1st author)
“Distance-dependent Magnetic Resonance Tuning (D-MRET) as a Versatile MRI Sensing Platform for Biological Targets”
Nature Mater. **2017**, *16*, 537–542.
- Choi, J.-s.; Zhu, Y.; Li, H.; Peyda, P.; Nguyen, T. T.; Shen, M. Y.; Yang, Y.; Zhu, J.; Liu, M.; Lee, M. M.; Sun, S.-S; Yang, Y.; Yu, H.-h; Chen, K.; Chuang, G; Tseng, H.-R.
Cross-Linked Fluorescent Supramolecular Nanoparticles as Finite Tattoo Pigments with Controllable Intradermal Retention Times”
ACS Nano **2017**, *11*, 153–162.
- Hou, S.*; Choi, J.-s.*; Garcia, M.*; Xing, Y.; Chen, K.-J.; Chen, Y.-M.; Jiang, J. K.; Ro, T.; Wu, L.; Stout, D. B.; Tomlinson, J. S.; Wang, H.; Chen, K.; Tseng, H.-R.; Lin, W.-Y. (co-1st author)

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"Pretargeted Positron Emission Tomography Imaging That Employs Supramolecular Nanoparticles with in Vivo Bioorthogonal Chemistry"

ACS Nano **2016**, *10*, 1417–1424.

- Shin, T.-H.*; Choi, J.-s.*; Yun, S.; Kim, I.-S.; Song, H.-T.; Kim, Y.; Park, K. I.; Cheon, J. (co-1st author)
"T1 and T2 Dual-Mode MRI Contrast Agent for Enhancing Accuracy by Engineered Nanomaterials"
ACS Nano **2014**, *8*, 3393-3401.
- Choi, J.-s.; Lee, J.-H.; Shin, T.-H.; Song, H.-T.; Kim, E. Y.; Cheon J
"Self-Confirming "AND" Logic Nanoparticles for Fault-Free MRI"
J. Am. Chem. Soc. **2010**, *132*, 11015-11017.

RESEARCH INTERESTS

- Design and fabrication of functional nanomaterials
- Magnetic materials
- Carbon dots
- Sensory and imaging system
- Drug delivery