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ACADEMIC QUALIFICATIONS

Ph.D., University of Michigan, Ann Arbor, MI Biomedical Engineering, 2005
M.S., Seoul National University, Seoul, Korea, Materials Science and Engineering, 2001
B.S., Yonsei University, Seoul, Korea, Materials Science and Engineering, 1999

PROFESSIONAL CAREER

2015 – present : Associate/Full Professor, SKKU, Sch. Chem. Eng., Korea
2008 – 2015 : Tenured Assist/Assoc Prof., Nanyang Tech. Univ., Sch. Chem. Biomed. Eng., Singapore
2005 – 2008 : Research Associate, Duke University, Durham, NC, Biomedical Eng.
2005 – 2005 : Postdoctorate Fellow, Univ. of Michigan, Ann Arbor, MI, Biomedical Eng.

SELECTED PUBLICATIONS

SM Shaban, SB Jo, E Hafez, JH Cho*, DH Kim*, "A Comprehensive Overview on Alkaline Phosphatase Targeting and Reporting Assays"	Coordination Chemistry Reviews 465, 214567, Aug 2022
BS Moon, TK Lee, WC Jeon, SK Kwak, YJ Kim*, DH Kim*, "Continuous-wave upconversion lasing with sub-10 W cm ⁻² threshold enabled by atomic disorder in host matrix"	Nature Communications 12, 4437, Jul, 2021
Z Wang, JH Shin, JH Park, HH Lee, DH Kim*, H Liu*, "Engineering Materials for Electrochemical Sweat Sensing"	Advanced Functional Materials 30, 2008130, Mar. 2021
Moon BS, Kim HE, and Kim DH*, Ultrafast Single-band Upconversion Luminescence in a Liquid-quenched Amorphous Matrix	Advanced Materials 30 (25), 2018
Ferhan AR, Jackman JA, Park JH, Cho NJ*, Kim DH*, Nanoplasmonic Sensors for Detecting Circulating Cancer Biomarkers.	Advanced Drug Delivery Review 125, 48-77, 2017
Ferhan AR and Kim DH* Nanoparticle Polymer Composites on Solid Substrates for Plasmonic Sensing Applications	Nano Today 11, 415–434, 2016
Chen X, Xu W, Zhang L, Bai X, Cui S, Zhou D, Yin Z, Song H, and Kim DH, Large Upconversion Enhancement in the "Islands" Au–Ag Alloy/NaYF ₄ : Yb ³⁺ , Tm ³⁺ /Er ³⁺ Composite Films, and Fingerprint Identification	Advanced Functional Materials 25,(34) 5462–5471, 2015
Guo L, Jackman JA, Yang HH, Chen P, Cho NJ and Kim DH* Strategies for Enhancing the Sensitivity of Plasmonic Nanosensors	Nano Today 10, 213—239, 2015
Guo L, Xu Y, Ferhan AR, Chen G and Kim DH* Oriented gold nanoparticle aggregation for colorimetric sensors with surprisingly high analytical figures of merit	Journal of American Chemical Society 135, 2338–12345, 2013
Si P, Ding S, Yuan J, Lou XW and Kim DH* Hierarchically structured one-dimensional TiO ₂ for protein immobilization, direct electrochemistry and mediator-free glucose sensing	ACS Nano 5 (9), 7617–7626, 2011