



Donghwan KIM, Richie

Professor, School of Chemical Engineering,
Biomedical Institute for Convergence at SKKU
Director, Precision Biology Research Center
Sungkyunkwan University

Address Seobu-ro 2066, Jangan-gu, Suwon, Gyeonggi-do, 16419 South Korea
Sungkyunkwan University, Research Complex 2 #83450
Office +82 31 299 4717
Email dhkim1@skkuedu
Homepage [Research Center] pbrc.skku.edu, [Lab] bsel.skku.edu

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

2023 – present Associated Editor, VIEW, Wiley, China
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.
2006 – 2005 Postdoctorate Fellow, Univ. of Michigan, Ann Arbor, MI, Biomedical Eng.

SELECTED PUBLICATIONS

BI Park, JK Kim, KY Lu*, X Zhang, SH Lee, JM Suh, DH Kim*, HS Kim*, JH Kim*, “Remote Epitaxy: Fundamentals, Challenges, and Opportunities”	Nano Letters , Mar 2024
D Kim, M Safdari, SW Lee, C Liu, Y Yang, SD Namgung, E Sargent, M Hersam, DH Kim,* M Kanatzidis*, “Enhanced Photostability of “Hollow” Mixed Halide Wide Bandgap Perovskite Films”	ACS Energy Letters , 8, 5221 Nov 2023
CS Chang, KS Kim, BI Park, JH Choi+, HS Kim, JS Jeong, M Barone, N Parker, S H Lee, X Zhang, K Lu, JM Suh, JK Kim, DY Lee, NM Han, MG Moon, YS Lee, D H Kim*, D Schlom*, YJ Hong*, JH Kim*, “Remote epitaxial interaction through graphene”	Science Advances 9(42), Oct 2023
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