

Suhyeon Park

Publications

1. Soft seed-mediated dimensional control of metal–organic framework nanocrystals through oil-in-water microemulsion
J. Lee, ‡ S. Park, ‡ S. Woo, C. Bae, Y. Jeon, M. Gu, J. Kim, Y. Kim, S. Y. Nam, J. H. Jung and J. Kim*
Inorganic Chemistry Frontiers 2023, 10, 7146 [Front Cover]
‡Equal contribution
2. Silver-nanoparticle-assisted modulation of NH₃ desorption on MIL-101
S. Park, M. Gu, Y. Kim, C. Bae, D. Kim and J. Kim*
ACS Omega 2022, 7, 19484
3. Synergistic effect of MIL-101/reduced graphene oxide nanocomposites on high-pressure ammonia uptake
C. Bae, G. Jeong, S. Park, Y. Kim, M. Gu, D. Kim* and J. Kim*
ACS Omega 2022, 7, 17144
4. ZIF-mediated gold nanorod assembly for surface-enhanced Raman scattering detection of 4-nitrobenzenethiol
S. Park, C. Bae, J. Lee, J. Kim, M. Lin* and J. Kim*
ACS Applied Nano Materials 2021, 4, 14004
5. Nanoscopic morphological effect on optical properties of polymer-grafted gold polyhedra
J. Lee, C. Bae, Z. Ou, S. Park, J. Kim and J. Kim*
Nanoscale Advances 2021, 3, 1927 [Back Cover]
6. Mechanistic insight into gold nanorod transformation in nanoscale confinement of ZIF-8
C. Bae, J. Lee, L. Yao, S. Park, Y. Lee, J. Lee, Q. Chen and J. Kim*
Nano Research 2021, 14, 66
7. Photophysical properties of guest molecules confined in nanopores
S. Park and J. Kim*
Journal of Korean Powder Metallurgy Institute 2020, 27, 477

Patents

1. Method of gold nanorod transformation in nanoscale confinement of ZIF-8
J. Kim, C. Bae, J. Lee, S. Park
Korea patent: 10-2350646
2. Manufacturing method for development of organic-inorganic carbon materials with complex porosities through direct impregnation of metal–organic framework precursors in the presence of reduced graphene oxide aerogel and organic-inorganic carbon materials with complex porosities
J. Kim, C. Bae, M. Gu, D. Kim, G. Jeong, S. Park, Y. Kim
Korea patent: 10-2567347
3. J. Kim, J. Lee, S. Park, S. Woo, S. Y. Nam, C. Bae, Y. Kim, J. Kim
Korea patent application: 10-2022-0074086

Awards

1. 2022 Fall Young Pioneer Researcher Award, Gyeongsang National University, Korea
2. 2022 Spring Young Pioneer Researcher Award, Gyeongsang National University, Korea
3. 2021 Visiting Student Scholarship to the University of Illinois at Urbana-Champaign, Human Resource Development Program for Industrial Innovation, KIET, Korea

Presentations

1. Development of MOF-encapsulated hybrid nanostructures for molecular sensing
S. Park, M. Shim* and J. Kim*
2022 ACS Fall, Chicago, IL, USA (Aug. 21–25, 2022)
2. Development of ZIF-encapsulated gold nanorod assembly for molecular selective sensing
S. Park and J. Kim*
128th Korean Chemical Society General Meeting, Busan, Korea (Oct. 13–15, 2021)
3. Development of hybrid nanomaterials and self-assembly
S. Park, C. Bae, J. Lee and J. Kim*
124th Korean Chemical Society General Meeting, Changwon, Korea (Oct. 16–18, 2019)