

Sung-Eun Choi, PhD
Johns Hopkins University
s.choi@jhu.edu

Academic position

Johns Hopkins University	Postdoctoral Scholar (PI: SJ Claire Hur, Ph.D.)	07/2017 - present
Forschungszentrum Jülich	Postdoctoral Scholar (PI: Andreas Offenhäusser, Ph.D.)	07/2016 - 03/2017

Education and training

Forschungszentrum Jülich	Physics	Ph.D. 2016
Seoul National University	Electrical Engineering and Computer Science	M.S. 2011
Seoul National University	Electrical Engineering Chemical and Biological Engineering	B.S. 2009

Experiences

KIST-Europe	Internship student (PI: Andreas Manz, Ph.D.)	09/2011 – 02/2012
Republic of Korea Air Force		03/2004 – 06/2006

Selected publications

1. **S. -E. Choi**, K. Greben, R. Wördenweber, and A. Offenhäusser, Positive charged SLB formation on gold surface for neuronal cell culture, *Biointerphases*, **11**, 021003, (2016).
2. R. Ghosh Moulick, D. Afanasenkau, **S. -E. Choi**, J. Albers, W. Lange, V. Maybeck, T. Utesch, and A. Offenhäusser, Reconstitution of fusion proteins in supported lipid bilayers for the study of cell surface receptor–ligand interactions in cell-cell contact, *Langmuir*, **32**, 3462–3469, (2016).
3. S.-H Song, K. Kim, **S. -E. Choi**, S. Han, H.-S. Lee, S. Kwon, and W. Park, Fine-tuned grayscale optofluidic maskless lithography for three-dimensional freeform shape microstructure fabrication, *Optics Letters*, **39**, 5162-5165, (2014).
4. J. Kim, **S. -E. Choi**, H. Lee, and S. Kwon, Magneto-chromatic microactuators for a micropixelated color-changing surface, *Advanced Materials*, **25**, 1415-1419, (2013).
5. S. Han, H. J. Bae, J. Kim, S. Shin, **S. -E. Choi**, S. H. Lee, S. Kwon, and W. Park, Lithographically Encoded polymer microtaggant using high-capacity and error-correctable QR code for anti-counterfeiting of drugs, *Advanced Materials*, **24**, 5924-5929, (2012).
6. S. C. Hur, **S. -E. Choi**, S. Kwon and D. Di Carlo, Inertial focusing of non-spherical microparticles, *Applied Physics Letters*, Vol. 99, No. 4, p. 044101 (2011).
7. J. Kim, S. E. Chung, **S. -E. Choi**, H. Lee, J. Kim and S. Kwon, Programming magnetic anisotropy in polymeric microactuators, *Nat Materials*, **10**, 747-752, (2011).
8. L. Kim, **S. -E. Choi**, J. Kim, H. Kim and S. Kwon, Single exposure fabrication and manipulation of 3D hydrogel cell microcarriers, *Lab on a Chip* **11**, 48-51, (2011).
9. S. H. Lee, **S. -E. Choi**, A. J. Heinz, W. Park, S. Han, Y. Jung, and S. Kwon, Active guidance of 3D microstructures, *Small*, **6**, 2668-2672, (2010).
10. H. Kim, J. Ge, J. Kim, **S. -E. Choi**, H. Lee, H. Lee, W. Park, Y. Yin and S. Kwon, Structural colour printing using a magnetically tunable and lithographically fixable photonic crystal, *Nat Photonics*, **3**, 534-540, (2009).