

Curriculum Vitae

(Last updated: 2017-06-20)

Changhyun Pang, Ph.D.



Personal Data

■ Assistant Professor

- School of Chemical Engineering (2014. 03 - Current)
Sungkyunkwan University, Korea.
- SKKU Advanced Institute of Nanotechnology (SAINT, 2015.08 - Current),
Sungkyunkwan University, Korea.

■ Adjunct Professor

- Samsung Advanced Institute for Health Science & Technology (SAIHST, 2015. 10 - Current)
Samsung Medical Center, Sungkyunkwan University, Korea.

Education and Training

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| 2013-2014 | Post Doc. Research Scholar in Department of Chemical Engineering
Stanford University, California, USA. |
| 2012 | Post Doc. Research Scholar at Institute of Advanced Machinery and
Design, BK 21 School for Creative Engineering Design of Next Generation
Mechanical and Aerospace Systems
Seoul National University, Seoul, Korea |
| 2012 | Ph. D. Research Scholar in Mechanical Engineering
World Class University Program on Multiscale Mechanical Design,
Seoul National University, Seoul, Korea. |
| 2005-2006 | SAMSUNG Electronics Co., LCD Division |
| 2005 | B. S. in Department of Chemical Engineering
Sungkyunkwan University, Suwon, Korea. |

Awards and Honors

- **Best Paper Award** in 5th Molecular Materials Meeting at Singapore. (2015)
- **MRS GSA Silver Award** in Materials Research Society (MRS) Fall, Boston (2012)
- **Golden Prize** in 17th Human Tech Thesis Prize (1ST Author), SAMSUNG Electronics Co. (2011)
- **Bronze Prize** in 16th Human Tech Thesis Prize (1ST Author), SAMSUNG Electronics Co. (2010)

Selected Publications

1. Sangyul Baik, Da wan Kim, Youngjin Park, Tae-Jin Lee, Suk Ho Bhang, **Changhyun Pang***, "A wet-tolerant adhesive patch inspired by protuberances in suction of octopi" *Nature* 546, 396-400 (2017) [*Highlighted in Nature News*], [*Press released*]
2. Y. Park, J. Shim, S. Jeong, G. Yi, H. Chae, J. W. Bae, S. O. Kim*, **Changhyun. Pang***, "Microtopography-guided Conductive Patterns of Liquid-Driven Graphene Nanoplatelet Networks for Stretchable and Skin-Conformal Sensor Array", *Advanced Materials*, 29, 1606453 (2017) [*Selected as Frontispiece*]
3. H. Han, Sangyul Baik, B. Xu, J. Seo, S. Lee, S. Shin, J. Lee, J. H. Koo, Y. Mei, **Changhyun Pang,*** and Taeyoon Lee*, "Bioinspired Geometry-Switchable Janus Nanofibers for Eye-Readable H₂ Sensors", *Advanced Functional Materials*, Accepted (2017) (*Corresponding Author).
4. Lee Chanseok, Kim Sang Moon, Kim Young Joo, Choi Yong Whan, Suh Kahp-Yang, **Pang Changhyun***, Choi Mansoo* "Robust Micro-Zip Fastener: Repeatable Interlocking using Polymeric Rectangular Parallelepiped Arrays", *Appl. Mater. Interfaces*, 7 (4), pp 2561–2568 (2015) (*Corresponding Author).
5. **Changhyun Pang**, J. H. Koo, A. Nguyen, J. Caves, M. -G. Kim, A. Chortos, K. Kim, P. Wang, J. Tok, and Z. Bao, "Highly Skin-Conformal Microhair Sensor for Pulse Signal Amplification" *Advanced Materials*, 27(4), 634-640. (2014) [*Selected as Front cover*], [*Press released*]
6. **Changhyun Pang**, G.-Y. Lee, T.-I Kim, S. M. Kim, H. N. Kim, S.-H. Ahn, and K.-Y. Suh, "A Flexible and Highly Sensitive Strain Gauge Sensor using Reversible Interlocking of Nanofibers" *Nature Materials* 11, 795-801 (2012) [*Highlighted in Nature News*], [*Press released*]
7. **Changhyun Pang**, T.-i. Kim, W. G. Bae, D. Kang, S. M. Kim, and K. Y. Suh, "Bioinspired Reversible Interlocker Using Regularly Arrayed High Aspect-Ratio Polymer Fibers," *Advanced Materials*, 24(4), 475 (2012) [*Selected as Front cover*], [*Press released*]
8. **Changhyun Pang**, M. K. Kwak, H.-E. Jeong, H.-N. Kim, H. Yoon, H.-S. Jung, K.-Y. Suh, "Towards the Next Level of Bio-inspired Dry Adhesives: New Designs and Applications," *Advanced Functional Materials*, 21(19), 3606 (2011)