융합전공
Department of Interdisciplinary Engineering

정 순 문

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Research Interests

· Photonic/Optical materials

· Luminescent devices

· Stretchable devices

Education

· 2008: Tokyo Institute of Technology (Ph.D. in Organic & Polymeric Materials)

· 2000: Yonsei Univ. (M.S. in Metallurgical Engineering)

· 1998: Yonsei Univ. (B.S. in Metallurgical Engineering)

Professional Experience

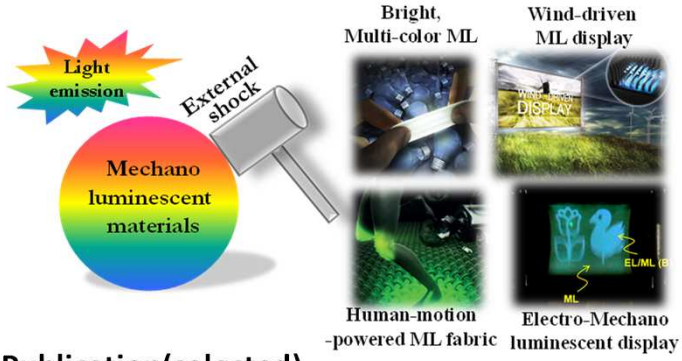
· 2012-Present: Senior/Principal Researcher, DGIST, Korea

· 2009-2012: Senior Researcher, Nippon Oil Corporation

· 2005-2008: Researcher, Tokyo Institute of Technology

미케노-광전융합소재 연구실

Mechano-optoelectronic Convergence materials Laboratory



Publication(selected)

1. Seongkyu Song, Bokyung Song, Chang-Hee Cho, Sang Kyoo Lim, **SOON MOON JEONG*** "Textile-Fiber–Embedded Multiluminescent Devices: A New Approach to Soft Display Systems" ***Materials Today*** Vol. 32, pp46-58 (2020).

2. **SOON MOON JEONG**[1]*, Seongkyu Song[1], Hyunmin Kim, Kyung-Il Joo and Hideo Takezoe "Mechanoluminescence color conversion by spontaneous fluorescent-dye-diffusion in elastomeric zinc sulfide composite" ***Advanced Functional Materials*** Vol. 26, pp4848-4858 (2016), BACK COVER (19 July 2016 issue).

3. **SOON MOON JEONG**[1]*, Seongkyu Song[1] and Hyunmin Kim "Simultaneous dual-channel blue/green emission from electro-mechanically excited elastomeric zinc sulphide composite" ***Nano Energy*** Vol. 21, pp154-161 (2016).

4. **SOON MOON JEONG**[1]*, Seongkyu Song[1], Kyung-Il Joo, Joonwoo Kim, Sung-Ho Hwang, Jaewook Jeong and Hyunmin Kim "Bright, wind-driven white mechanoluminescence from zinc sulphide microparticles embedded in a polydimethylsiloxane elastomer" ***Energy & Environmental Science*** Vol. 7, pp3338-3346 (2014) INSIDE BACK COVER (10 October 2014 issue).

5. **SOON MOON JEONG***, Seongkyu Song, Soo-Keun Lee and Na Young Ha "Color manipulation of mechanoluminescence from stress-activated composite films" ***Advanced Materials*** Vol. 25, pp6194-6200, (2013) FRONT COVER (20 November 2013 issue).

Main Achievements(selected)

1. The first realization of bright, multi-color and durable mechanoluminescence and its application into sustainable light

2. Development of emerging soft display system emitting electro-mechanoluminescence

3. Award: Prime Minister's Citation (Ministry of Science and ICT, 2018), Achievement award (DGIST, 2016), "DGISTian of the year" award (DGIST, 2013)

Link:

https://scholar.google.co.kr/citations?user=pvIjWwgAAAAJ&hl=ko

https://www.youtube.com/watch?v=1dM0vHUZSFE