# Sungwon Lee

## List of Publications by Year in Descending Order



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|---|---|---|---|
| 26 papers | 5,896 citations | 13 h-index | 27 g-index |
| 27 ext. papers | 6,546 ext. citations | 13.6 avg, IF | 5.62 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 26 | Larger, flexible, and skin-mountable energy devices with graphene single layers for integratable, wearable, and health monitoring systems. *Materials Today Chemistry*, **2022**, 23, 100764 | 6.2 | |
| 25 | Predominantly enhanced catalytic activities of surface protected ZnO nanorods integrated stainless-steel mesh structures: A synergistic impact on oxygen evolution reaction process. *Chemical Engineering Journal*, **2022**, 429, 132360 | 14.7 | 2 |
| 24 | Multi-deformable piezoelectric energy nano-generator with high conversion efficiency for subtle body movements. *Nano Energy*, **2022**, 97, 107223 | 17.1 | 0 |
| 23 | Impact of shock waves on the physical and chemical properties of aligned zinc oxide structures grown over metal-sheets. *Materials Today Chemistry*, **2022**, 24, 100921 | 6.2 | |
| 22 | Enhancing the conductivity of PEDOT:PSS films for biomedical applications via hydrothermal treatment. *Biosensors and Bioelectronics*, **2021**, 171, 112717 | 11.8 | 13 |
| 21 | All-Organic, Solution-Processed, Extremely Conformal, Mechanically Biocompatible, and Breathable Epidermal Electrodes. *ACS Applied Materials & Interfaces*, **2021**, 13, 5660-5667 | 9.5 | 6 |
| 20 | Highly Reliable Magnetic-Based Pressure Sensor Utilizing Simple Microstructured PDMS: Mechanical and Design Analysis via Finite Element Analysis. *IEEE Sensors Journal*, **2021**, 21, 16560-16567 | 4 | |
| 19 | User-friendly methodology for chemical vapor deposition grown graphene-layers transfer: Design and implementation. *Materials Today Chemistry*, **2021**, 21, 100546 | 6.2 | 1 |
| 18 | Multifunctional Metal-oxide Integrated Monolayer Graphene Heterostructures for Planar, Flexible, and Skin-mountable Device Applications. *Nano Energy*, **2021**, 88, 106274 | 17.1 | 5 |
| 17 | A Hierarchical Metal Nanowire Network Structure for Durable, Cost-Effective, Stretchable, and Breathable Electronics.. *ACS Applied Materials & Interfaces*, **2021**, 13, 60425-60432 | 9.5 | 1 |
| 16 | Extremely flexible and mechanically durable planar supercapacitors: High energy density and low-cost power source for E-skin electronics. *Nano Energy*, **2020**, 78, 105356 | 17.1 | 13 |
| 15 | Defects-free single-crystalline zinc oxide nanostructures for efficient photoelectrochemical solar hydrogen generation. *International Journal of Hydrogen Energy*, **2020**, 45, 27279-27290 | 6.7 | 4 |
| 14 | Recent advances in graphene monolayers growth and their biological applications: A review. *Advances in Colloid and Interface Science*, **2020**, 283, 102225 | 14.3 | 11 |
| 13 | Stable and sustainable photoanodes using zinc oxide and cobalt oxide chemically gradient nanostructures for water-splitting applications. *Journal of Colloid and Interface Science*, **2020**, 558, 9-20 | 9.3 | 13 |
| 12 | Accurate, hysteresis-free temperature sensor for health monitoring using a magnetic sensor and pristine polymer.. *RSC Advances*, **2019**, 9, 7885-7889 | 3.7 | 8 |
| 11 | Functionalization of graphene layers and advancements in device applications. *Carbon*, **2019**, 152, 954-985 | 10.4 | 61 |
| 10 | Breathable Nanomesh Humidity Sensor for Real-Time Skin Humidity Monitoring. *ACS Applied Materials & Interfaces*, **2019**, 11, 44758-44763 | 9.5 | 52 |

# List of Publications

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|---|---|---|---|
| 9 | Ultrathin silver telluride nanowire films and gold nanosheet electrodes for a flexible resistive switching device. *Nanoscale*, **2018**, 10, 5424-5430 | 7.7 | 18 |
| 8 | A photonic sintering derived Ag flake/nanoparticle-based highly sensitive stretchable strain sensor for human motion monitoring. *Nanoscale*, **2018**, 10, 7890-7897 | 7.7 | 74 |
| 7 | Enhancing the Performance of Stretchable Conductors for E-Textiles by Controlled Ink Permeation. *Advanced Materials*, **2017**, 29, 1605848 | 24 | 170 |
| 6 | Inflammation-free, gas-permeable, lightweight, stretchable on-skin electronics with nanomeshes. *Nature Nanotechnology*, **2017**, 12, 907-913 | 28.7 | 555 |
| 5 | High-Frequency, Conformable Organic Amplifiers. *Advanced Materials*, **2016**, 28, 3298-304 | 24 | 46 |
| 4 | A transparent bending-insensitive pressure sensor. *Nature Nanotechnology*, **2016**, 11, 472-8 | 28.7 | 549 |
| 3 | A strain-absorbing design for tissue-machine interfaces using a tunable adhesive gel. *Nature Communications*, **2014**, 5, 5898 | 17.4 | 106 |
| 2 | Continuous production of uniform poly(3-hexylthiophene) (P3HT) nanofibers by electrospinning and their electrical properties. *Journal of Materials Chemistry*, **2009**, 19, 743-748 | | 106 |
| 1 | Chemically derived, ultrasmooth graphene nanoribbon semiconductors. *Science*, **2008**, 319, 1229-32 | 33.3 | 4081 |