## Howon Lee

## List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/372342/publications.pdf

Version: 2024-02-01

|          |                 | 377584       | 488211         |
|----------|-----------------|--------------|----------------|
| 37       | 4,254 citations | 21           | 31             |
| papers   | citations       | h-index      | g-index        |
|          |                 |              |                |
|          |                 |              |                |
| 38       | 38              | 38           | 6388           |
| all docs | docs citations  | times ranked | citing authors |
|          |                 |              |                |

| #  | Article   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Experiments and modeling of the thermo-mechanically coupled behavior of VHB. International Journal of Solids and Structures, 2022, 242, 111523.   | 1.3  | 7         |
| 2  | Multimaterial Printing for Cephalopod-Inspired Light-Responsive Artificial Chromatophores. ACS Applied Materials & Samp; Interfaces, 2021, 13, 12735-12745.   | 4.0  | 19        |
| 3  | High resolution stereolithography fabrication of perfusable scaffolds to enable long-term meso-scale hepatic culture for disease modeling. Biofabrication, 2021, 13, 045024.                          | 3.7  | 12        |
| 4  | Rapid Processing and Drug Evaluation in Glioblastoma Patient-Derived Organoid Models with 4D Bioprinted Arrays. IScience, 2020, 23, 101365.   | 1.9  | 46        |
| 5  | 4Dâ€Printed Transformable Tube Array for Highâ€Throughput 3D Cell Culture and Histology. Advanced Materials, 2020, 32, e2004285.  | 11.1 | 26        |
| 6  | Recent advances in multi-material additive manufacturing: methods and applications. Current Opinion in Chemical Engineering, 2020, 28, 158-166.   | 3.8  | 130       |
| 7  | Self-Limiting Electrospray Deposition for the Surface Modification of Additively Manufactured Parts. ACS Applied Materials & amp; Interfaces, 2020, 12, 20901-20911.                                  | 4.0  | 29        |
| 8  | 4D Printing of a Bioinspired Microneedle Array with Backwardâ€Facing Barbs for Enhanced Tissue Adhesion. Advanced Functional Materials, 2020, 30, 1909197.  | 7.8  | 180       |
| 9  | Spatial Uncertainty Modeling for Surface Roughness of Additively Manufactured Microstructures via Image Segmentation. Applied Sciences (Switzerland), 2019, 9, 1093.                                  | 1.3  | 4         |
| 10 | 4D printing reconfigurable, deployable and mechanically tunable metamaterials. Materials Horizons, 2019, 6, 1244-1250.  | 6.4  | 182       |
| 11 | Improving Surface Roughness of Additively Manufactured Parts Using a Photopolymerization Model and Multi-Objective Particle Swarm Optimization. Applied Sciences (Switzerland), 2019, 9, 151.         | 1.3  | 25        |
| 12 | Rapid multi-material 3D printing with projection micro-stereolithography using dynamic fluidic control. Additive Manufacturing, 2019, 27, 606-615.  | 1.7  | 106       |
| 13 | Modeling of fiber-reinforced polymeric gels. Mechanics Research Communications, 2019, 96, 7-18.   | 1.0  | 22        |
| 14 | Temperature-responsive thermal metamaterials enabled by modular design of thermally tunable unit cells. International Journal of Heat and Mass Transfer, 2019, 130, 469-482.                          | 2.5  | 35        |
| 15 | Abstract 2691: 4D printing of programmable smart material for drug screening in patient-derived organoids. , 2019, , .  |      | O         |
| 16 | Micro 3D Printing of a Temperature-Responsive Hydrogel Using Projection Micro-Stereolithography. Scientific Reports, 2018, 8, 1963.   | 1.6  | 178       |
| 17 | Rapid Pulsed Light Sintering of Silver Nanowires on Woven Polyester for personal thermal management with enhanced performance, durability and cost-effectiveness. Scientific Reports, 2018, 8, 17159. | 1.6  | 24        |
| 18 | Lightweight Microlattice With Tunable Mechanical Properties Using 3D Printed Shape Memory Polymer., 2018,,.   |      | 0         |

| #  | Article   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | Layer-by-layer assembled carbon nanotube-polyethyleneimine coatings inside copper-sintered heat pipes for enhanced thermal performance. Carbon, 2018, 140, 521-532.                                 | 5.4 | 23        |
| 20 | Soft Robotic Manipulation and Locomotion with a 3D Printed Electroactive Hydrogel. ACS Applied Materials & Samp; Interfaces, 2018, 10, 17512-17518.   | 4.0 | 258       |
| 21 | Tunable Multifunctional Thermal Metamaterials: Manipulation of Local Heat Flux via Assembly of Unit-Cell Thermal Shifters. Scientific Reports, 2017, 7, 41000.                                      | 1.6 | 48        |
| 22 | Projection Micro-Stereolithography of Temperature Responsive Mechanically Tough Hydrogels. , 2016, , .  |     | 1         |
| 23 | Ultra-sensitive detection of zinc oxide nanowires using a quartz crystal microbalance and phosphoric acid DNA. Nanotechnology, 2016, 27, 365501.  | 1.3 | 5         |
| 24 | Multimaterial 4D Printing with Tailorable Shape Memory Polymers. Scientific Reports, 2016, 6, 31110.  | 1.6 | 751       |
| 25 | Highly sensitive, direct and real-time detection of silver nanowires by using a quartz crystal microbalance. Nanotechnology, 2016, 27, 475506.  | 1.3 | 2         |
| 26 | Polytope Sector-Based Synthesis and Analysis of Microstructural Architectures With Tunable Thermal Conductivity and Expansion. Journal of Mechanical Design, Transactions of the ASME, 2016, 138, . | 1.7 | 25        |
| 27 | Design, Development and Evaluation of a Two Way Actuated Steerable Needle. , 2015, , .  |     | 1         |
| 28 | Polytope Sector-Based Synthesis and Analysis of Microarchitectured Materials With Tunable Thermal Conductivity and Expansion. , 2015, , .   |     | 0         |
| 29 | A highly sensitive, direct and label-free technique for Hg <sup>2+</sup> detection using Kelvin probe force microscopy. Nanotechnology, 2015, 26, 305501.   | 1.3 | 18        |
| 30 | Ultralight, ultrastiff mechanical metamaterials. Science, 2014, 344, 1373-1377.   | 6.0 | 1,592     |
| 31 | Micro 3D Printing Using a Digital Projector and its Application in the Study of Soft Materials<br>Mechanics. Journal of Visualized Experiments, 2012, , e4457.                                      | 0.2 | 20        |
| 32 | Prescribed Pattern Transformation in Swelling Gel Tubes by Elastic Instability. Physical Review Letters, 2012, 108, 214304.   | 2.9 | 51        |
| 33 | Design and optimization of a light-emitting diode projection micro-stereolithography three-dimensional manufacturing system. Review of Scientific Instruments, 2012, 83, 125001.                    | 0.6 | 205       |
| 34 | Coupled Non-Fickian Diffusion and Large Deformation of Hydrogels. Conference Proceedings of the Society for Experimental Mechanics, 2011, , 25-28.  | 0.3 | 0         |
| 35 | Solvent-driven polymeric micro beam device. Journal of Micromechanics and Microengineering, 2010, 20, 085030.   | 1.5 | 21        |
| 36 | First jump of microgel; actuation speed enhancement by elastic instability. Soft Matter, 2010, 6, 4342.   | 1.2 | 204       |