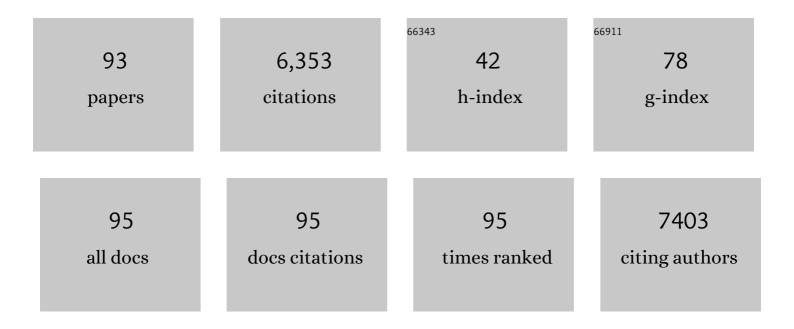
Hyun-Taek Lee

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Superhydrophobicity and corrosion resistance of AISI 4140 mold made through nanosecond laser texturing. International Journal of Advanced Manufacturing Technology, 2022, 119, 5119-5130. | 3.0 | 4 |
| 2 | A Multiscale Adhesion Model for Deposition Prediction in Laser Enhanced Nanoparticle Deposition Process. Acta Materialia, 2021, 208, 116740. | 7.9 | 1 |
| 3 | Precise glass microstructuring with laser induced backside wet etching using error-compensating scan path. Journal of Materials Processing Technology, 2021, 291, 117046. | 6.3 | 12 |
| 4 | Shape memory alloy-driven undulatory locomotion of a soft biomimetic ray robot. Bioinspiration and Biomimetics, 2021, 16, 066006. | 2.9 | 12 |
| 5 | Shape Memory Alloy-Based Microscale Bending Actuator Fabricated by a Focused Ion Beam Chemical Vapor Deposition (FIB-CVD) Gap-Filling Process. International Journal of Precision Engineering and Manufacturing, 2020, 21, 491-498. | 2.2 | 8 |
| 6 | Shape Memory Alloy-Based Soft Finger with Changeable Bending Length Using Targeted Variable Stiffness. Soft Robotics, 2020, 7, 283-291. | 8.0 | 79 |
| 7 | Directly Printed Low-Cost Nanoparticle Sensor for Vibration Measurement during Milling Process. Materials, 2020, 13, 2920. | 2.9 | 5 |
| 8 | 50Ânm Scale Alignment Method for Hybrid Manufacturing Processes for Full 3D Structuring. International Journal of Precision Engineering and Manufacturing, 2020, 21, 2407-2417. | 2.2 | 1 |
| 9 | Microtentacle Actuators: Microtentacle Actuators Based on Shape Memory Alloy Smart Soft Composite (Adv. Funct. Mater. 34/2020). Advanced Functional Materials, 2020, 30, 2070231. | 14.9 | 3 |
| 10 | Shape memory textile composites with multi-mode actuations for soft morphing skins. Composites Part B: Engineering, 2020, 198, 108170. | 12.0 | 39 |
| 11 | Direct printing of performance tunable strain sensor via nanoparticle laser patterning process. Virtual and Physical Prototyping, 2020, 15, 265-277. | 10.4 | 12 |
| 12 | Microtentacle Actuators Based on Shape Memory Alloy Smart Soft Composite. Advanced Functional Materials, 2020, 30, 2002510. | 14.9 | 27 |
| 13 | Hybrid composite actuator with shape retention capability for morphing flap of unmanned aerial vehicle (UAV). Composite Structures, 2020, 243, 112227. | 5.8 | 18 |
| 14 | Stretchable Biaxial and Shear Strain Sensors Using Diffractive Structural Colors. ACS Nano, 2020, 14, 5392-5399. | 14.6 | 68 |
| 15 | Crack-free fabrication of Prussian blue-based blending film for the dramatic enhancement of dual electrochromic device. Ceramics International, 2020, 46, 21008-21013. | 4.8 | 14 |
| 16 | Laser Controlled 65 Micrometer Long Microrobot Made of Niâ€ī i Shape Memory Alloy. Advanced Materials Technologies, 2019, 4, 1900583. | 5.8 | 22 |
| 17 | Low-voltage modulated inorganic smart windows using solid polymer electrolyte. Solar Energy Materials and Solar Cells, 2019, 200, 109966. | 6.2 | 6 |
| 18 | Highly Sensitive Solvent-free Silver Nanoparticle Strain Sensors with Tunable Sensitivity Created Using an Aerodynamically Focused Nanoparticle Printer. ACS Applied Materials & Interfaces, 2019, 11, 26421-26432. | 8.0 | 20 |

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|----|---|------|-----------|
| 19 | Simulation of electrical conductivity for nanoparticles and nanotubes composite sensor according to geometrical properties of nanomaterials. Composites Part B: Engineering, 2019, 174, 107003. | 12.0 | 9 |
| 20 | Colour-tunable 50% strain sensor using surface-nanopatterning of soft materials via nanoimprinting with focused ion beam milling process. CIRP Annals - Manufacturing Technology, 2019, 68, 595-598. | 3.6 | 18 |
| 21 | Direct printing of highly sensitive, stretchable, and durable strain sensor based on silver nanoparticles/multi-walled carbon nanotubes composites. Composites Part B: Engineering, 2019, 161, 395-401. | 12.0 | 99 |
| 22 | Simulation of dynamic growth rate of focused ion beam-induced deposition using Hausdorff distance. Sensors and Actuators A: Physical, 2019, 286, 169-177. | 4.1 | 1 |
| 23 | Soft Tendril-Inspired Grippers: Shape Morphing of Programmable Polymer–Paper Bilayer Composites. ACS Applied Materials & Interfaces, 2018, 10, 10419-10427. | 8.0 | 118 |
| 24 | Shape Memory Alloy (SMA) \hat{a} €Based Microscale Actuators with 60% Deformation Rate and 1.6 kHz Actuation Speed. Small, 2018, 14, e1801023. | 10.0 | 46 |
| 25 | Resistive pressure sensor based on cylindrical micro structures in periodically ordered electrospun elastic fibers. Smart Materials and Structures, 2018, 27, 11LT01. | 3.5 | 14 |
| 26 | Microstructural Control of the Electrochromic and Ion Storage Layers on the Performance of an Electrochromic Device Fabricated by the Kinetic Spray Technique. International Journal of Precision Engineering and Manufacturing - Green Technology, 2018, 5, 231-238. | 4.9 | 9 |
| 27 | Blooming Knit Flowers: Loopâ€Linked Soft Morphing Structures for Soft Robotics. Advanced Materials, 2017, 29, 1606580. | 21.0 | 72 |
| 28 | An Overview of Shape Memory Alloy-Coupled Actuators and Robots. Soft Robotics, 2017, 4, 3-15. | 8.0 | 189 |
| 29 | Site-specific characterization of beetle horn shell with micromechanical bending test in focused ion beam system. Acta Biomaterialia, 2017, 57, 395-403. | 8.3 | 9 |
| 30 | Curved shape memory alloy-based soft actuators and application to soft gripper. Composite Structures, 2017, 176, 398-406. | 5.8 | 109 |
| 31 | Advanced scanning paths for focused ion beam milling. Vacuum, 2017, 143, 40-49. | 3.5 | 12 |
| 32 | Design and Fabrication of Soft Morphing Ray Propulsor: Undulator and Oscillator. Soft Robotics, 2017, 4, 49-60. | 8.0 | 52 |
| 33 | Direct printing of anisotropic wetting patterns using aerodynamically focused nanoparticle (AFN) printing. Applied Surface Science, 2017, 396, 1450-1457. | 6.1 | 14 |
| 34 | Shape Memory Alloy-Based Soft Gripper with Variable Stiffness for Compliant and Effective Grasping. Soft Robotics, 2017, 4, 379-389. | 8.0 | 247 |
| 35 | Effect of laser-excited ceramic nanoparticles on hardness and porosity of dry-sprayed coating. CIRP Annals - Manufacturing Technology, 2017, 66, 519-522. | 3.6 | 6 |
| 36 | From 3D to 4D printing – design, material and fabrication for multi-functional multi-materials. International Journal of Precision Engineering and Manufacturing - Green Technology, 2017, 4, 291-299. | 4.9 | 62 |

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| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 37 | Direct Printing of Strain Sensors via Nanoparticle Printer for the Applications to Composite Structural Health Monitoring. Procedia CIRP, 2017, 66, 238-242. | 1.9 | 32 |
| 38 | Pulse width modulation as energy-saving strategy of shape memory alloy based smart soft composite actuator. International Journal of Precision Engineering and Manufacturing, 2017, 18, 895-901. | 2.2 | 12 |
| 39 | CAD/CAM for scalable nanomanufacturing: A network-based system for hybrid 3D printing. Microsystems and Nanoengineering, 2017, 3, 17072. | 7.0 | 5 |
| 40 | 35 Hz shape memory alloy actuator with bending-twisting mode. Scientific Reports, 2016, 6, 21118. | 3.3 | 92 |
| 41 | Novel fabrication of an electrochromic antimony-doped tin oxide film using a nanoparticle deposition system. Applied Surface Science, 2016, 377, 370-375. | 6.1 | 22 |
| 42 | Design and analysis of a smart soft composite structure for various modes of actuation. Composites Part B: Engineering, 2016, 95, 155-165. | 12.0 | 26 |
| 43 | From design for manufacturing (DFM) to manufacturing for design (MFD) via hybrid manufacturing and smart factory: A review and perspective of paradigm shift. International Journal of Precision Engineering and Manufacturing - Green Technology, 2016, 3, 209-222. | 4.9 | 59 |
| 44 | Soft morphing hand driven by SMA tendon wire. Composites Part B: Engineering, 2016, 105, 138-148. | 12.0 | 106 |
| 45 | Design and evaluation of micro-cutting tools for local planarization. International Journal of Precision Engineering and Manufacturing, 2016, 17, 1267-1273. | 2.2 | 8 |
| 46 | A review on fabrication processes for electrochromic devices. International Journal of Precision Engineering and Manufacturing - Green Technology, 2016, 3, 397-421. | 4.9 | 70 |
| 47 | Deployable Soft Composite Structures. Scientific Reports, 2016, 6, 20869. | 3.3 | 63 |
| 48 | Soft composite hinge actuator and application to compliant robotic gripper. Composites Part B: Engineering, 2016, 98, 397-405. | 12.0 | 84 |
| 49 | Room-Temperature Fabrication of a Flexible Thermoelectric Generator Using a Dry-Spray Deposition System. Journal of Electronic Materials, 2016, 45, 2286-2290. | 2.2 | 6 |
| 50 | Shape memory alloy/glass fiber woven composite for soft morphing winglets of unmanned aerial vehicles. Composite Structures, 2016, 140, 202-212. | 5.8 | 61 |
| 51 | Woven type smart soft composite for soft morphing car spoiler. Composites Part B: Engineering, 2016, 86, 285-298. | 12.0 | 56 |
| 52 | Comparison of mold designs for SMA-based twisting soft actuator. Sensors and Actuators A: Physical, 2016, 237, 96-106. | 4.1 | 26 |
| 53 | Flexible ceramic-elastomer composite piezoelectric energy harvester fabricated by additive manufacturing. Journal of Composite Materials, 2016, 50, 1573-1579. | 2.4 | 19 |
| 54 | A review of electrically-assisted manufacturing. International Journal of Precision Engineering and Manufacturing - Green Technology, 2015, 2, 365-376. | 4.9 | 108 |

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|----|--|------|-----------|
| 55 | Design and development of bio-mimetic soft robotic hand with shape memory alloy. , 2015, , . | | 10 |
| 56 | Smart soft composite actuator with shape retention capability using embedded fusible alloy structures. Composites Part B: Engineering, 2015, 78, 507-514. | 12.0 | 74 |
| 57 | Shape memory alloy (SMA)-based head and neck immobilizer for radiotherapy. Journal of Computational Design and Engineering, 2015, 2, 176-182. | 3.1 | 9 |
| 58 | Fabrication of wrist-like SMA-based actuator by double smart soft composite casting. Smart Materials and Structures, 2015, 24, 125003. | 3.5 | 59 |
| 59 | Low-cost fabrication of WO3 films using a room temperature and low-vacuum air-spray based deposition system for inorganic electrochromic device applications. Thin Solid Films, 2015, 589, 412-418. | 1.8 | 33 |
| 60 | Nanoscale 3D printing process using aerodynamically focused nanoparticle (AFN) printing, micro-machining, and focused ion beam (FIB). CIRP Annals - Manufacturing Technology, 2015, 64, 523-526. | 3.6 | 19 |
| 61 | SMA-based smart soft composite structure capable of multiple modes of actuation. Composites Part B: Engineering, 2015, 82, 152-158. | 12.0 | 61 |
| 62 | A smart soft actuator using a single shape memory alloy for twisting actuation. Smart Materials and Structures, 2015, 24, 125033. | 3.5 | 51 |
| 63 | In-Situ Characterization of Nano-Structures Fabricated by Focused Ion Beam (FIB) and Nano Particle Deposition System (NPDS). , 2014, , . | | 0 |
| 64 | Effect of backstitch tool path on micro-drilling of printed circuit board. Precision Engineering, 2014, 38, 691-696. | 3.4 | 15 |
| 65 | Hybrid manufacturing in micro/nano scale: A Review. International Journal of Precision Engineering and Manufacturing - Green Technology, 2014, 1, 75-92. | 4.9 | 141 |
| 66 | An evaluation of green manufacturing technologies based on research databases. International Journal of Precision Engineering and Manufacturing - Green Technology, 2014, 1, 5-9. | 4.9 | 53 |
| 67 | Cellulose nanofiber assisted deposition of titanium dioxide on fluorine-doped tin oxide glass. RSC Advances, 2014, 4, 987-991. | 3.6 | 4 |
| 68 | Bio-inspired deposition of silver nano-particles (AgNPs) on silicon substrate. Materials Letters, 2014, 116, 175-177. | 2.6 | 1 |
| 69 | Locomotion of inchworm-inspired robot made of smart soft composite (SSC). Bioinspiration and Biomimetics, 2014, 9, 046006. | 2.9 | 181 |
| 70 | A comparison of energy consumption in bulk forming, subtractive, and additive processes: Review and case study. International Journal of Precision Engineering and Manufacturing - Green Technology, 2014, 1, 261-279. | 4.9 | 255 |
| 71 | Aerodynamically Focused Nanoparticle (AFN) Printing: Novel Direct Printing Technique of Solvent-Free and Inorganic Nanoparticles. ACS Applied Materials & Interfaces, 2014, 6, 16466-16471. | 8.0 | 27 |
| 72 | Cross-shaped twisting structure using SMA-based smart soft composite. International Journal of Precision Engineering and Manufacturing - Green Technology, 2014, 1, 153-156. | 4.9 | 46 |

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| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 73 | Empirical power-consumption model for material removal in three-axis milling. Journal of Cleaner Production, 2014, 78, 54-62. | 9.3 | 90 |
| 74 | Fabrication of transparent superhydrophobic surface on thermoplastic polymer using laser beam machining and compression molding for mass production. CIRP Annals - Manufacturing Technology, 2014, 63, 525-528. | 3.6 | 57 |
| 75 | Alignment Algorithm for Nano-scale Three-dimensional Printing System. Journal of the Korean Society for Precision Engineering, 2014, 31, 1101-1106. | 0.2 | 2 |
| 76 | Control of machining parameters for energy and cost savings in micro-scale drilling of PCBs. Journal of Cleaner Production, 2013, 54, 41-48. | 9.3 | 65 |
| 77 | Woven type smart soft composite beam with in-plane shape retention. Smart Materials and Structures, 2013, 22, 125007. | 3.5 | 21 |
| 78 | A turtle-like swimming robot using a smart soft composite (SSC) structure. Smart Materials and Structures, 2013, 22, 014007. | 3.5 | 112 |
| 79 | An overview on the cellulose based conducting composites. Composites Part B: Engineering, 2012, 43, 2822-2826. | 12.0 | 65 |
| 80 | A flexible and highly sensitive strain-gauge sensor using reversible interlocking of nanofibres. Nature Materials, 2012, 11, 795-801. | 27.5 | 1,453 |
| 81 | Smart soft composite: An integrated 3D soft morphing structure using bend-twist coupling of anisotropic materials. International Journal of Precision Engineering and Manufacturing, 2012, 13, 631-634. | 2.2 | 103 |
| 82 | Nano-particle deposition system (NPDS): Low energy solvent-free dry spray process for direct patterning of metals and ceramics at room temperature. International Journal of Precision Engineering and Manufacturing, 2012, 13, 1107-1112. | 2.2 | 40 |
| 83 | Review of biomimetic underwater robots using smart actuators. International Journal of Precision Engineering and Manufacturing, 2012, 13, 1281-1292. | 2.2 | 291 |
| 84 | Laser-assisted nano particle deposition system and its application for dye sensitized solar cell fabrication. CIRP Annals - Manufacturing Technology, 2012, 61, 575-578. | 3.6 | 18 |
| 85 | Effect of stand-off distance for cold gas spraying of fine ceramic particles (<5μm) under low vacuum and room temperature using nano-particle deposition system (NPDS). Surface and Coatings Technology, 2012, 206, 2125-2132. | 4.8 | 56 |
| 86 | Review: Developments in micro/nanoscale fabrication by focused ion beams. Vacuum, 2012, 86, 1014-1035. | 3.5 | 161 |
| 87 | Room temperature deposition of TiO2 using nano particle deposition system (NPDS): Application to dye-sensitized solar cell (DSSC). International Journal of Precision Engineering and Manufacturing, 2011, 12, 749-752. | 2.2 | 23 |
| 88 | Geometric optimization of micro drills using Taguchi methods and response surface methodology. International Journal of Precision Engineering and Manufacturing, 2011, 12, 871-875. | 2.2 | 59 |
| 89 | Deposition of TiO2 layers for dye-sensitized solar cells using nano-particle deposition system. Current Applied Physics, 2011, 11, S122-S126. | 2.4 | 8 |
| 90 | Deposition mechanism of dry sprayed ceramic particles at room temperature using a nano-particle deposition system. Acta Materialia, 2011, 59, 2693-2703. | 7.9 | 139 |

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| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 91 | Fabrication and reliable implementation of an ionic polymer–metal composite (IPMC) biaxial bending actuator. Smart Materials and Structures, 2011, 20, 105026. | 3.5 | 21 |
| 92 | Review of manufacturing processes for soft biomimetic robots. International Journal of Precision Engineering and Manufacturing, 2009, 10, 171-181. | 2.2 | 236 |
| 93 | A Multiscale Adhesion Model for Deposition Prediction in Laser Enhanced Nanoparticle Deposition Process. SSRN Electronic Journal, 0, , . | 0.4 | Ο |