Seong Min Kang

List of Publications by Citations

40 papers	2,989 citations	18 h-index	46 g-index
46 ext. papers	3,317 ext. citations	8.8 avg, IF	5.41 L-index

#	Paper	IF	Citations
40	Highly Reproducible Perovskite Solar Cells with Average Efficiency of 18.3% and Best Efficiency of 19.7% Fabricated via Lewis Base Adduct of Lead(II) Iodide. *Journal of the American Chemical Society*, **2015**, 137, 8696-9	16.4	1751
39	Hysteresis-free low-temperature-processed planar perovskite solar cells with 19.1% efficiency. *Energy and Environmental Science*, **2016**, 9, 2262-2266	35.4	232
38	Moth-Eye TiO2 Layer for Improving Light Harvesting Efficiency in Perovskite Solar Cells. *Small*, **2016**, 12, 2443-9	11	115
37	Enhanced skin adhesive patch with modulus-tunable composite micropillars. *Advanced Healthcare Materials*, **2013**, 2, 109-13	10.1	107
36	Robust superomniphobic surfaces with mushroom-like micropillar arrays. *Soft Matter*, **2012**, 8, 8563	3.6	105
35	Thermodynamic regulation of CH3NH3PbI3 crystal growth and its effect on photovoltaic performance of perovskite solar cells. *Journal of Materials Chemistry A*, **2015**, 3, 19901-19906	13	78
34	Directional oil sliding surfaces with hierarchical anisotropic groove microstructures. *Advanced Materials*, **2013**, 25, 5756-61	24	67
33	Opto-electronic properties of TiO2 nanohelices with embedded HC(NH2)2PbI3 perovskite solar cells. *Journal of Materials Chemistry A*, **2015**, 3, 9179-9186	13	60
32	Remote Manipulation of Droplets on a Flexible Magnetically Responsive Film. *Scientific Reports*, **2015**, 5, 17843	4.9	57
31	Water-repellent perovskite solar cell. *Journal of Materials Chemistry A*, **2014**, 2, 20017-20021	13	55
30	Replication of flexible polymer membranes with geometry-controllable nano-apertures via a hierarchical mould-based dewetting. *Nature Communications*, **2014**, 5, 3137	17.4	47
29	Tunable Multimodal Drop Bouncing Dynamics and Anti-Icing Performance of a Magnetically Responsive Hair Array. *ACS Nano*, **2018**, 12, 10693-10702	16.7	47
28	Facile fabrication of three-dimensional TiO 2 structures for highly efficient perovskite solar cells. *Nano Energy*, **2016**, 22, 499-506	17.1	34
27	Multifunctional Moth-Eye TiO/PDMS Pads with High Transmittance and UV Filtering. *ACS Applied Materials & Interfaces*, **2017**, 9, 44038-44044	9.5	34
26	3D tissue formation by stacking detachable cell sheets formed on nanofiber mesh. *Biofabrication*, **2017**, 9, 015029	10.5	28
25	Bio-inspired adhesive systems for next-generation green manufacturing. *International Journal of Precision Engineering and Manufacturing - Green Technology*, **2014**, 1, 347-351	3.8	26
24	Bioinspired design and fabrication of green-environmental dry adhesive with robust wide-tip shape. *International Journal of Precision Engineering and Manufacturing - Green Technology*, **2016**, 3, 189-192	3.8	25

23	Moth-eye Structured Polydimethylsiloxane Films for High-Efficiency Perovskite Solar Cells. *Nano-Micro Letters*, **2019**, 11, 53	19.5	24
22	Directional Clustering of Slanted Nanopillars by Elastocapillarity. *Small*, **2016**, 12, 3764-9	11	13
21	Role of wide tip of mushroom-like micropillar arrays to make the Cassie state on superrepellent surfaces. *RSC Advances*, **2016**, 6, 74670-74674	3.7	13
20	Selective Liquid Sliding Surfaces with Springtail-Inspired Concave Mushroom-Like Micropillar Arrays. *Small*, **2020**, 16, e1904612	11	12
19	Optimization of Shapes and Sizes of Moth-Eye-Inspired Structures for the Enhancement of Their Antireflective Properties. *Polymers*, **2020**, 12,	4.5	9
18	Enhanced Shear Adhesion by Mechanical Interlocking of Dual-Scaled Elastomeric Micropillars With Embedded Silica Particles. *Macromolecular Reaction Engineering*, **2013**, 7, 616-623	1.5	9
17	Repeated shape recovery of clustered nanopillars by mechanical pulling. *Journal of Materials Chemistry C*, **2016**, 4, 9608-9612	7.1	8
16	Partial wrinkle generation for switchable attachment and high adhesion hysteresis. *International Journal of Precision Engineering and Manufacturing*, **2017**, 18, 133-137	1.7	5
15	Enhanced Directional Adhesion Behavior of Mushroom-Shaped Microline Arrays. *International Journal of Precision Engineering and Manufacturing - Green Technology*, **2020**, 7, 239-245	3.8	4
14	Reliable and Robust Fabrication Rules for Springtail-Inspired Superomniphobic Surfaces. *ACS Applied Materials & Interfaces*, **2020**, 12, 21120-21126	9.5	4
13	Self-Assembled Artificial Nanocilia Actuators.. *Advanced Materials*, **2022**, e2200185	24	4
12	One step fabrication of polymeric ratchet structures of diverse tilting angles. *RSC Advances*, **2016**, 6, 41313-41316	3.7	3
11	Robust fabrication of double-ring mushroom structure for reliable omniphobic surfaces. *Surfaces and Interfaces*, **2022**, 29, 101778	4.1	1
10	Capillary-Induced Clustering of Thermoresponsive Micropillars. *ACS Applied Materials & Interfaces*, **2021**, 13, 58201-58208	9.5	1
9	Reliable Replication Molding Process for Robust Mushroom-Shaped Microstructures. *Journal of the Korean Society for Precision Engineering*, **2020**, 37, 855-860	0.3	1
8	Bioinspired Omniphobic Microchamber Structure. *Advanced Materials Interfaces*, **2021**, 8, 2100027	4.6	1
7	Bioinspired liquid-repelling sealing films for flexible perovskite solar cells. *Materials Today Energy*, **2021**, 20, 100622	7	1
6	Analysis of optical and wetting properties of a biomimetic anti-reflective surface for practical application. *Journal of Mechanical Science and Technology*, **2021**, 35, 3559-3567	1.6	1

5	Perovskite Solar Cells: Moth-Eye TiO2 Layer for Improving Light Harvesting Efficiency in Perovskite Solar Cells (Small 18/2016). *Small*, **2016**, 12, 2530-2530	11	1
4	Controlling the directional sliding velocity of a liquid through an omniphobic nano-bump surface. *Applied Surface Science*, **2022**, 571, 151404	6.7	1
3	Clustering Transition in Thermo-Responsive Micropillars. *Small Structures*,2200023	8.7	0
2	On the nature of wetting transition on high-aspect-ratio pNIPAAm micropillar structures. *Surfaces and Interfaces*, **2022**, 31, 102062	4.1	0
1	Directional amplification of luminance and formation of complex structures by using reflective Janus-faced prism array. *Macromolecular Research*, **2017**, 25, 108-111	1.9	