

Ho-Young Kim

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

89
papers

2,742
citations

28
h-index

50
g-index

98
ext. papers

3,317
ext. citations

6.5
avg, IF

5.31
L-index

#	Paper	IF	Citations
89	3D micromesh-based hybrid bioprinting: multidimensional liquid patterning for 3D microtissue engineering. <i>NPG Asia Materials</i> , 2022 , 14,	10.3	2
88	Hydrogel-based strong and fast actuators by electroosmotic turgor pressure.. <i>Science</i> , 2022 , 376, 301-307,	33.3	15
87	Soft artificial electroreceptors for noncontact spatial perception. <i>Science Advances</i> , 2021 , 7, eabg9203	14.3	3
86	Aspiration-mediated hydrogel micropatterning using rail-based open microfluidic devices for high-throughput 3D cell culture. <i>Scientific Reports</i> , 2021 , 11, 19986	4.9	0
85	Dynamics of directional soluble wicking. <i>Journal of Fluid Mechanics</i> , 2021 , 915,	3.7	1
84	Scalable High-Efficiency Bi-Facial Solar Evaporator with a Dendritic Copper Oxide Wick. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 11869-11878	9.5	3
83	Interfacial Solar Evaporator - Physical Principles and Fabrication Methods. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2021 , 8, 1347-1367	3.8	1
82	From an elongated cavity to funnel by the impact of a drop train. <i>Journal of Fluid Mechanics</i> , 2021 , 921,	3.7	2
81	Direct recovery of spilled oil using hierarchically porous oil scoop with capillary-induced anti-oil-fouling. <i>Journal of Hazardous Materials</i> , 2021 , 410, 124549	12.8	2
80	Agile reversible shape-morphing of particle rafts. <i>Soft Matter</i> , 2021 , 17, 7554-7564	3.6	2
79	Avian mud nest architecture by self-secreted saliva. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	2
78	Coalescence of oil drops and films on micropillared substrates enabled by enhanced water drainage through pillar gaps. <i>Soft Matter</i> , 2021 , 17, 5888-5896	3.6	
77	Contact behavior of a fluttering flag with an adjacent plate. <i>Physics of Fluids</i> , 2021 , 33, 034105	4.4	0
76	Comparing cleaning effects of gas and vapor bubbles in ultrasonic fields. <i>Ultrasonics Sonochemistry</i> , 2021 , 76, 105618	8.9	6
75	Delicate Fabric Handling Using a Soft Robotic Gripper With Embedded Microneedles. <i>IEEE Robotics and Automation Letters</i> , 2020 , 5, 4852-4858	4.2	5
74	Crack density in bloodstains. <i>Soft Matter</i> , 2020 , 16, 5571-5576	3.6	3
73	Capillary rise in superhydrophilic rough channels. <i>Physics of Fluids</i> , 2020 , 32, 032105	4.4	11

72	Hygroresponsive coiling of seed awns and soft actuators. <i>Extreme Mechanics Letters</i> , 2020 , 38, 100746	3.9	3
71	Removal of Contaminant Nanoparticles with (hbox {CO}_2) Nanobullets at Atmospheric Conditions. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2020 , 7, 929-938	3.8	
70	Ionic spiderwebs. <i>Science Robotics</i> , 2020 , 5,	18.6	20
69	Trails of ants converge or diverge through lens-shaped impediments, resembling principles of optics. <i>Scientific Reports</i> , 2020 , 10, 8479	4.9	
68	Dynamics of liquid imbibition through partially soluble porous sheets. <i>JMST Advances</i> , 2020 , 2, 53-59	1.9	
67	Water strider females use individual experience to adjust jumping behaviour to their weight within physical constraints of water surface tension. <i>Scientific Reports</i> , 2020 , 10, 18657	4.9	2
66	Capillarity in Soft Porous Solids. <i>Annual Review of Fluid Mechanics</i> , 2020 , 52, 263-284	22	14
65	Dewetting of liquid film via vapour-mediated Marangoni effect. <i>Journal of Fluid Mechanics</i> , 2019 , 872, 100-114	3.7	14
64	Vapor transport deposited tin monosulfide for thin-film solar cells: effect of deposition temperature and duration. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 7186-7193	13	26
63	Jumping dynamics of aquatic animals. <i>Journal of the Royal Society Interface</i> , 2019 , 16, 20190014	4.1	16
62	Optimal diameter reduction ratio of acinar airways in human lungs. <i>PLoS ONE</i> , 2019 , 14, e0204191	3.7	1
61	Critical AC frequency for stable operation of electrowetting-driven optofluidic devices with polymeric electrolyte solutions. <i>Journal of Mechanical Science and Technology</i> , 2019 , 33, 1793-1797	1.6	0
60	Formation, growth, and saturation of dry holes in thick liquid films under vapor-mediated Marangoni effect. <i>Physics of Fluids</i> , 2019 , 31, 112105	4.4	10
59	A design principle of root length distribution of plants. <i>Journal of the Royal Society Interface</i> , 2019 , 16, 20190556	4.1	2
58	Hygrobot: A self-locomotive ratcheted actuator powered by environmental humidity. <i>Science Robotics</i> , 2018 , 3,	18.6	178
57	Poro-elasto-capillary wicking of cellulose sponges. <i>Science Advances</i> , 2018 , 4, eaao7051	14.3	28
56	Optimal cold sink temperature for thermoelectric dehumidifiers. <i>Journal of Mechanical Science and Technology</i> , 2018 , 32, 885-895	1.6	3
55	Directional raids by army ants as an adaption to patchily distributed food: a simulation model. <i>Animal Cells and Systems</i> , 2018 , 22, 267-272	2.3	1

54	Capillary rise of non-aqueous liquids in cellulose sponges. <i>Journal of Fluid Mechanics</i> , 2017 , 818,	3.7	16
53	Reduction of granular drag inspired by self-burrowing rotary seeds. <i>Physics of Fluids</i> , 2017 , 29, 041702	4.4	14
52	Effects of surface nanostructures on self-cleaning and anti-fogging characteristics of transparent glass. <i>Journal of Mechanical Science and Technology</i> , 2017 , 31, 5407-5414	1.6	23
51	Mechanics of jumping on water. <i>Physical Review Fluids</i> , 2017 , 2,	2.8	4
50	Ultrasonic washing of textiles. <i>Ultrasonics Sonochemistry</i> , 2016 , 29, 563-7	8.9	20
49	Non-Negligible Diffusio-Osmosis Inside an Ion Concentration Polarization Layer. <i>Physical Review Letters</i> , 2016 , 116, 254501	7.4	32
48	Pseudo 1-D Micro/Nanofluidic Device for Exact Electrokinetic Responses. <i>Langmuir</i> , 2016 , 32, 6478-85	4	13
47	Capillarity ion concentration polarization as spontaneous desalting mechanism. <i>Nature Communications</i> , 2016 , 7, 11223	17.4	32
46	Evaporation-driven clustering of microscale pillars and lamellae. <i>Physics of Fluids</i> , 2016 , 28, 022003	4.4	11
45	Dynamics of hemiwicking. <i>Journal of Fluid Mechanics</i> , 2016 , 800, 57-71	3.7	46
44	Bending and buckling of wet paper. <i>Physics of Fluids</i> , 2016 , 28, 042101	4.4	15
43	Interfacial waves generated by electrowetting-driven contact line motion. <i>Physics of Fluids</i> , 2016 , 28, 102102	4.4	9
42	Water striders adjust leg movement speed to optimize takeoff velocity for their morphology. <i>Nature Communications</i> , 2016 , 7, 13698	17.4	23
41	BIOMECHANICS. Jumping on water: Surface tension-dominated jumping of water striders and robotic insects. <i>Science</i> , 2015 , 349, 517-21	33.3	188
40	Spontaneous Marangoni Mixing of Miscible Liquids at a Liquid-Liquid-Air Contact Line. <i>Langmuir</i> , 2015 , 31, 8726-31	4	22
39	Wicking and flooding of liquids on vertical porous sheets. <i>Physics of Fluids</i> , 2015 , 27, 032105	4.4	10
38	Selective preconcentration and online collection of charged molecules using ion concentration polarization. <i>RSC Advances</i> , 2015 , 5, 66178-66184	3.7	45
37	A scaling law for the lift of hovering insects. <i>Journal of Fluid Mechanics</i> , 2015 , 782, 479-490	3.7	18

36	UV-responsive nano-sponge for oil absorption and desorption. <i>Scientific Reports</i> , 2015 , 5, 12908	4.9	46
35	Nanostructured Carbon Materials. <i>Journal of Nanomaterials</i> , 2015 , 2015, 1-2	3.2	3
34	Capillarity Guided Patterning of Microliquids. <i>Small</i> , 2015 , 11, 2789-97	11	28
33	Flutter-driven triboelectrification for harvesting wind energy. <i>Nature Communications</i> , 2014 , 5, 4929	17.4	265
32	Disruptive bubble behaviour leading to microstructure damage in an ultrasonic field. <i>Journal of Fluid Mechanics</i> , 2014 , 750, 355-371	3.7	38
31	Self-burial mechanics of hygroscopically responsive awns. <i>Integrative and Comparative Biology</i> , 2014 , 54, 1034-42	2.8	38
30	Does liquid slippage within a rough channel always increase the flow rate?. <i>Physics of Fluids</i> , 2014 , 26, 072002	4.4	16
29	Optimal lamellar arrangement in fish gills. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 8067-70	11.5	23
28	Drop impact on super-wettability-contrast annular patterns. <i>Journal of Fluid Mechanics</i> , 2013 , 730, 328-342	4.7	26
27	Experimental study of drop spreading on textured superhydrophilic surfaces. <i>Physics of Fluids</i> , 2013 , 25, 092110	4.4	35
26	Wake and thrust of an angularly reciprocating plate. <i>Journal of Fluid Mechanics</i> , 2013 , 720, 545-557	3.7	8
25	Shape of a large drop on a rough hydrophobic surface. <i>Physics of Fluids</i> , 2013 , 25, 022102	4.4	15
24	Kinematic Condition for Maximizing the Thrust of a Robotic Fish Using a Compliant Caudal Fin. <i>IEEE Transactions on Robotics</i> , 2012 , 28, 1216-1227	6.5	60
23	Water harvest via dewing. <i>Langmuir</i> , 2012 , 28, 10183-91	4	220
22	On the dynamics of capillary imbibition. <i>Journal of Mechanical Science and Technology</i> , 2012 , 26, 3795-3806	10.6	10
21	Extreme water repellency of nanostructured low-surface-energy non-woven fabrics. <i>Soft Matter</i> , 2012 , 8, 1817-1823	3.6	52
20	Hydrodynamics of writing with ink. <i>Physical Review Letters</i> , 2011 , 107, 264501	7.4	47
19	Liquid spreading on superhydrophilic micropillar arrays. <i>Journal of Fluid Mechanics</i> , 2011 , 680, 477-487	3.7	65

18	Drop impact on microwetting patterned surfaces. <i>Physics of Fluids</i> , 2010 , 22, 072101	4.4	37
17	Nanoscale patterning of microtextured surfaces to control superhydrophobic robustness. <i>Langmuir</i> , 2010 , 26, 8319-26	4	113
16	Long-lasting hydrophilicity on nanostructured Si-incorporated diamond-like carbon films. <i>Langmuir</i> , 2010 , 26, 17203-9	4	32
15	Nanopottery: coiling of electrospun polymer nanofibers. <i>Nano Letters</i> , 2010 , 10, 2138-40	11.5	70
14	Tilted Janus polymer pillars. <i>Soft Matter</i> , 2010 , 6, 3924	3.6	33
13	The effect of compliant joint and caudal fin in thrust generation for robotic fish 2010 ,		6
12	Behavior of thermal bubbles formed from a single nucleation site. <i>Journal of Mechanical Science and Technology</i> , 2010 , 24, 415-420	1.6	2
11	Mechanism of particle removal by megasonic waves. <i>Applied Physics Letters</i> , 2009 , 94, 081908	3.4	66
10	Multi-curvature liquid meniscus in a nanochannel: evidence of interplay between intermolecular and surface forces. <i>Lab on A Chip</i> , 2009 , 9, 3255-60	7.2	24
9	The role of superhydrophobicity in the adhesion of a floating cylinder. <i>Journal of Fluid Mechanics</i> , 2009 , 624, 23-32	3.7	30
8	Towards a biologically inspired small-scale water jumping robot 2008 ,		23
7	Equilibrium of an elastically confined liquid drop. <i>Journal of Applied Physics</i> , 2008 , 103, 093519	2.5	25
6	Bending of floating flexible legs. <i>Journal of Fluid Mechanics</i> , 2008 , 610, 381-390	3.7	24
5	On Thermocapillary Propulsion of Microliquid Slug. <i>Nanoscale and Microscale Thermophysical Engineering</i> , 2007 , 11, 351-362	3.7	7
4	Dynamics of surfactant-driven fracture of particle rafts. <i>Physical Review Letters</i> , 2006 , 96, 178301	7.4	30
3	Capillary rise between elastic sheets. <i>Journal of Fluid Mechanics</i> , 2006 , 548, 141	3.7	106
2	Imaging the high-speed impact of microdrop on solid surface. <i>Review of Scientific Instruments</i> , 2003 , 74, 4930-4937	1.7	28
1	Sliding of liquid drops down an inclined solid surface. <i>Journal of Colloid and Interface Science</i> , 2002 , 247, 372-80	9.3	173

