

Sunghoon Kwon

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.

80
papers

3,330
citations

25
h-index

57
g-index

100
ext. papers

4,003
ext. citations

9.7
avg, IF

5.05
L-index

#	Paper	IF	Citations
80	Spatial epitranscriptomics reveals A-to-I editome specific to cancer stem cell microniches.. <i>Nature Communications</i> , 2022 , 13, 2540	17.4	0
79	Induction of Anti-Aquaporin 5 Autoantibody Production by Immunization with a Peptide Derived from the Aquaporin of Leads to Reduced Salivary Flow in Mice. <i>Immune Network</i> , 2021 , 21, e34	6.1	1
78	Direct 2D-to-3D transformation of pen drawings. <i>Science Advances</i> , 2021 , 7,	14.3	7
77	Nasopharyngeal Type-I Interferon for Immediately Available Prophylaxis Against Emerging Respiratory Viral Infections. <i>Frontiers in Immunology</i> , 2021 , 12, 660298	8.4	2
76	Purification of multiplex oligonucleotide libraries by synthesis and selection. <i>Nature Biotechnology</i> , 2021 ,	44.5	4
75	Phenotype-based single cell sequencing identifies diverse genetic subclones in CD133 positive cancer stem cells. <i>Biochemical and Biophysical Research Communications</i> , 2021 , 558, 209-215	3.4	3
74	Advances in Tumor Sampling and Sequencing in Breast Cancer and their Application in Precision Diagnostics and Therapeutics. <i>Advances in Experimental Medicine and Biology</i> , 2021 , 1187, 215-244	3.6	
73	Gradient-Wrinkled Microparticle with Grayscale Lithography Controlling the Cross-Linking Densities for High Security Level Anti-Counterfeiting Strategies. <i>ACS Omega</i> , 2021 , 6, 2121-2126	3.9	3
72	Stereotypic neutralizing V antibodies against SARS-CoV-2 spike protein receptor binding domain in patients with COVID-19 and healthy individuals. <i>Science Translational Medicine</i> , 2021 , 13,	17.5	36
71	Photopatterned microswimmers with programmable motion without external stimuli. <i>Nature Communications</i> , 2021 , 12, 4724	17.4	5
70	Amplification of a minimally biased antibody repertoire for in vitro display using a universal primer-based amplification method. <i>Journal of Immunological Methods</i> , 2021 , 496, 113089	2.5	0
69	A high-throughput cell culture system based on capillary and centrifugal actions for rapid antimicrobial susceptibility testing. <i>Lab on A Chip</i> , 2020 , 20, 4552-4560	7.2	2
68	A fidget spinner for the point-of-care diagnosis of urinary tract infection. <i>Nature Biomedical Engineering</i> , 2020 , 4, 591-600	19	42
67	Cell-Free Bacteriophage Genome Synthesis Using Low-Cost Sequence-Verified Array-Synthesized Oligonucleotides. <i>ACS Synthetic Biology</i> , 2020 , 9, 1376-1384	5.7	5
66	OPENchip: an on-chip in situ molecular profiling platform for gene expression analysis and oncogenic mutation detection in single circulating tumour cells. <i>Lab on A Chip</i> , 2020 , 20, 912-922	7.2	10
65	Microspinning: Local Surface Mixing via Rotation of Magnetic Microparticles for Efficient Small-Volume Bioassays. <i>Micromachines</i> , 2020 , 11,	3.3	3
64	DNA Micro-Disks for the Management of DNA-Based Data Storage with Index and Write-Once-Read-Many (WORM) Memory Features. <i>Advanced Materials</i> , 2020 , 32, e2001249	24	14

63	Optics and Fluidics. <i>Microtechnology and MEMS</i> , 2020 , 197-234	0.6	1
62	A High-Throughput Single-Clone Phage Fluorescence Microwell Immunoassay and Laser-Driven Clonal Retrieval System. <i>Biomolecules</i> , 2020 , 10,	5.9	1
61	Efficient Selection of Antibodies Reactive to Homologous Epitopes on Human and Mouse Hepatocyte Growth Factors by Next-Generation Sequencing-Based Analysis of the B Cell Repertoire. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	3
60	High information capacity DNA-based data storage with augmented encoding characters using degenerate bases. <i>Scientific Reports</i> , 2019 , 9, 6582	4.9	25
59	Divide and conquer: A perspective on biochips for single-cell and rare-molecule analysis by next-generation sequencing. <i>APL Bioengineering</i> , 2019 , 3, 020901	6.6	7
58	Whole Genome Sequencing of Single Circulating Tumor Cells Isolated by Applying a Pulsed Laser to Cell-Capturing Microstructures. <i>Small</i> , 2019 , 15, e1902607	11	14
57	Monozygotic twins with shared de novo GATA2 mutation but dissimilar phenotypes due to differential promoter methylation. <i>Leukemia and Lymphoma</i> , 2019 , 60, 1053-1061	1.9	3
56	High-throughput retrieval of physical DNA for NGS-identifiable clones in phage display library. <i>MAbs</i> , 2019 , 11, 532-545	6.6	9
55	Targeted sequencing aids in identifying clonality in chronic myelomonocytic leukemia. <i>Leukemia Research</i> , 2019 , 84, 106190	2.7	6
54	Characteristics of Waldenström Macroglobulinemia in Korean Patients According to Mutational Status of MYD88 and CXCR4: Analysis Using Ultra-Deep Sequencing. <i>Clinical Lymphoma, Myeloma and Leukemia</i> , 2019 , 19, e496-e505	2	3
53	Barcode-free next-generation sequencing error validation for ultra-rare variant detection. <i>Nature Communications</i> , 2019 , 10, 977	17.4	9
52	One-Step Generation of a Drug-Releasing Hydrogel Microarray-On-A-Chip for Large-Scale Sequential Drug Combination Screening. <i>Advanced Science</i> , 2019 , 6, 1801380	13.6	18
51	A Reconfigurable DNA Accordion Rack. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 2811-2815	16.4	21
50	High-throughput construction of multiple cas9 gene variants via assembly of high-depth tiled and sequence-verified oligonucleotides. <i>Nucleic Acids Research</i> , 2018 , 46, e55	20.1	2
49	Design and Synthesis of a Reconfigurable DNA Accordion Rack. <i>Journal of Visualized Experiments</i> , 2018 ,	1.6	1
48	Evaluating Tumor Evolution via Genomic Profiling of Individual Tumor Spheroids in a Malignant Ascites. <i>Scientific Reports</i> , 2018 , 8, 12724	4.9	10
47	A rapid culture system uninfluenced by an inoculum effect increases reliability and convenience for drug susceptibility testing of Mycobacterium tuberculosis. <i>Scientific Reports</i> , 2018 , 8, 8651	4.9	6
46	PHLI-seq: constructing and visualizing cancer genomic maps in 3D by phenotype-based high-throughput laser-aided isolation and sequencing. <i>Genome Biology</i> , 2018 , 19, 158	18.3	10

45	Hierarchical shape-by-shape assembly of microparticles for micrometer-scale viral delivery of two different genes. <i>Biomicrofluidics</i> , 2018 , 12, 031102	3.2	5
44	A Reconfigurable DNA Accordion Rack. <i>Angewandte Chemie</i> , 2018 , 130, 2861-2865	3.6	4
43	ELIPatch, a thumbnail-size patch with immunospot array for multiplexed protein detection from human skin surface. <i>Biomicrofluidics</i> , 2018 , 12, 031101	3.2	8
42	Towards encoded particles for highly multiplexed colorimetric point of care autoantibody detection. <i>Lab on A Chip</i> , 2017 , 17, 549-556	7.2	10
41	Direct, rapid antimicrobial susceptibility test from positive blood cultures based on microscopic imaging analysis. <i>Scientific Reports</i> , 2017 , 7, 1148	4.9	58
40	An encoded viral micropatch for multiplex cell-based assays through localized gene delivery. <i>Lab on A Chip</i> , 2017 , 17, 2435-2442	7.2	5
39	Uniform Drug Loading into Prefabricated Microparticles by Freeze-Drying. <i>Particle and Particle Systems Characterization</i> , 2017 , 34, 1600427	3.1	8
38	Liquid-capped encoded microcapsules for multiplex assays. <i>Lab on A Chip</i> , 2017 , 17, 429-437	7.2	20
37	Self-organization of maze-like structures via guided wrinkling. <i>Science Advances</i> , 2017 , 3, e1700071	14.3	32
36	Idiopathic hypereosinophilia is clonal disorder? Clonality identified by targeted sequencing. <i>PLoS ONE</i> , 2017 , 12, e0185602	3.7	14
35	Rapid drug susceptibility test of Mycobacterium tuberculosis using microscopic time-lapse imaging in an agarose matrix. <i>Applied Microbiology and Biotechnology</i> , 2016 , 100, 2355-65	5.7	23
34	Lithographic resolution enhancement of a maskless lithography system based on a wobulation technique for flow lithography. <i>Applied Physics Letters</i> , 2016 , 109, 234101	3.4	18
33	Multiscale Cues Drive Collective Cell Migration. <i>Scientific Reports</i> , 2016 , 6, 29749	4.9	26
32	Shape-encoded silica microparticles for multiplexed bioassays. <i>Chemical Communications</i> , 2015 , 51, 12130-3	3.8	28
31	A high-throughput optomechanical retrieval method for sequence-verified clonal DNA from the NGS platform. <i>Nature Communications</i> , 2015 , 6, 6073	17.4	24
30	Biomimetics: Biomimetic Microfingerprints for Anti-Counterfeiting Strategies (Adv. Mater. 12/2015). <i>Advanced Materials</i> , 2015 , 27, 2123-2123	24	2
29	Fiber composite slices for multiplexed immunoassays. <i>Biomicrofluidics</i> , 2015 , 9, 044109	3.2	3
28	Biomimetic 3D Tissue Models for Advanced High-Throughput Drug Screening. <i>Journal of the Association for Laboratory Automation</i> , 2015 , 20, 201-15		100

27	Embedded biofilm, a new biofilm model based on the embedded growth of bacteria. <i>Applied and Environmental Microbiology</i> , 2015 , 81, 211-9	4.8	19
26	Photocurable Polymer Nanocomposites for Magnetic, Optical, and Biological Applications. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2015 , 21, 324-335	3.8	10
25	Biomimetic microfingerprints for anti-counterfeiting strategies. <i>Advanced Materials</i> , 2015 , 27, 2083-9	24	181
24	One-step pipetting and assembly of encoded chemical-laden microparticles for high-throughput multiplexed bioassays. <i>Nature Communications</i> , 2014 , 5, 3468	17.4	40
23	Fine-tuned grayscale optofluidic maskless lithography for three-dimensional freeform shape microstructure fabrication. <i>Optics Letters</i> , 2014 , 39, 5162-5	3	33
22	A rapid antimicrobial susceptibility test based on single-cell morphological analysis. <i>Science Translational Medicine</i> , 2014 , 6, 267ra174	17.5	176
21	Rapid antibiotic susceptibility testing by tracking single cell growth in a microfluidic agarose channel system. <i>Lab on A Chip</i> , 2013 , 13, 280-7	7.2	130
20	Free-floating amphiphilic picoliter droplet carriers for multiplexed liquid loading in a microfluidic channel. <i>Microfluidics and Nanofluidics</i> , 2012 , 13, 511-518	2.8	10
19	Lithographically encoded polymer microtaggant using high-capacity and error-correctable QR code for anti-counterfeiting of drugs. <i>Advanced Materials</i> , 2012 , 24, 5924-9	24	144
18	Shotgun DNA synthesis for the high-throughput construction of large DNA molecules. <i>Nucleic Acids Research</i> , 2012 , 40, e140	20.1	32
17	Programming magnetic anisotropy in polymeric microactuators. <i>Nature Materials</i> , 2011 , 10, 747-52	27	329
16	Magnetochromatic Microspheres: Real-Time Optofluidic Synthesis of Magnetochromatic Microspheres for Reversible Structural Color Patterning (Small 9/2011). <i>Small</i> , 2011 , 7, 1142-1142	11	1
15	Photoluminescence Characteristics of Sr ₃ SiO ₅ : Eu ²⁺ Yellow Phosphors Synthesized by Solid-State Method and Pechini Process. <i>Journal of the Electrochemical Society</i> , 2011 , 158, J330	3.9	28
14	Inertial focusing of non-spherical microparticles. <i>Applied Physics Letters</i> , 2011 , 99, 044101	3.4	88
13	In Situ Fabrication and Actuation of Polymer Magnetic Microstructures. <i>Journal of Microelectromechanical Systems</i> , 2011 , 20, 785-787	2.5	18
12	Colour-barcoded magnetic microparticles for multiplexed bioassays. <i>Nature Materials</i> , 2010 , 9, 745-9	27	294
11	Optofluidic in situ maskless lithography of charge selective nanoporous hydrogel for DNA preconcentration. <i>Biomicrofluidics</i> , 2010 , 4, 43014	3.2	24
10	Niche applications of magnetically responsive photonic structures. <i>Journal of Materials Chemistry</i> , 2010 , 20, 5777		37

9	Structural colour printing using a magnetically tunable and lithographically fixable photonic crystal. <i>Nature Photonics</i> , 2009 , 3, 534-540	33.9	515
8	Three-dimensional fabrication of heterogeneous microstructures using soft membrane deformation and optofluidic maskless lithography. <i>Lab on A Chip</i> , 2009 , 9, 1670-5	7.2	76
7	Sorting microparticles by orientation using wedged-fin and railed microfluidics 2009 ,		1
6	Guided and fluidic self-assembly of microstructures using railed microfluidic channels. <i>Nature Materials</i> , 2008 , 7, 581-7	27	264
5	Optofluidic Maskless Lithography System 2007 ,		2
4	Optofluidic maskless lithography system for real-time synthesis of photopolymerized microstructures in microfluidic channels. <i>Applied Physics Letters</i> , 2007 , 91, 041106	3.4	120
3	High-throughput retrieval of physical DNA for NGS-identifiable clones in phage display library		2
2	Micro-Concentrator Photovoltaics Using Fluidic Self-Assembly Technology. <i>Advanced Materials Technologies</i> ,2100312	6.8	
1	Ampoule-Like Microvolume Containers with Transparent Code for Easy-to-Use and Space-Saving Storage of Small-Volume Biospecimens. <i>Advanced Materials Technologies</i> ,2101266	6.8	0