

Sunghoon Kwon

List of Publications by Citations

Source: <https://exaly.com/author-pdf/2562502/sunghoon-kwon-publications-by-citations.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	Structural colour printing using a magnetically tunable and lithographically fixable photonic crystal. <i>Nature Photonics</i> , 2009 , 3, 534-540	33.9	515
79	Programming magnetic anisotropy in polymeric microactuators. <i>Nature Materials</i> , 2011 , 10, 747-52	27	329
78	Colour-barcoded magnetic microparticles for multiplexed bioassays. <i>Nature Materials</i> , 2010 , 9, 745-9	27	294
77	Guided and fluidic self-assembly of microstructures using railed microfluidic channels. <i>Nature Materials</i> , 2008 , 7, 581-7	27	264
76	Biomimetic microfingerprints for anti-counterfeiting strategies. <i>Advanced Materials</i> , 2015 , 27, 2083-9	24	181
75	A rapid antimicrobial susceptibility test based on single-cell morphological analysis. <i>Science Translational Medicine</i> , 2014 , 6, 267ra174	17.5	176
74	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
73	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
72	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
71	Biomimetic 3D Tissue Models for Advanced High-Throughput Drug Screening. <i>Journal of the Association for Laboratory Automation</i> , 2015 , 20, 201-15		100
70	Inertial focusing of non-spherical microparticles. <i>Applied Physics Letters</i> , 2011 , 99, 044101	3.4	88
69	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
68	Direct, rapid antimicrobial susceptibility test from positive blood cultures based on microscopic imaging analysis. <i>Scientific Reports</i> , 2017 , 7, 1148	4.9	58
67	A fidget spinner for the point-of-care diagnosis of urinary tract infection. <i>Nature Biomedical Engineering</i> , 2020 , 4, 591-600	19	42
66	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
65	Niche applications of magnetically responsive photonic structures. <i>Journal of Materials Chemistry</i> , 2010 , 20, 5777		37
64	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

63	Fine-tuned grayscale optofluidic maskless lithography for three-dimensional freeform shape microstructure fabrication. <i>Optics Letters</i> , 2014 , 39, 5162-5	3	33
62	Self-organization of maze-like structures via guided wrinkling. <i>Science Advances</i> , 2017 , 3, e1700071	14.3	32
61	Shotgun DNA synthesis for the high-throughput construction of large DNA molecules. <i>Nucleic Acids Research</i> , 2012 , 40, e140	20.1	32
60	Shape-encoded silica microparticles for multiplexed bioassays. <i>Chemical Communications</i> , 2015 , 51, 12130-3	3.8	28
59	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
58	Multiscale Cues Drive Collective Cell Migration. <i>Scientific Reports</i> , 2016 , 6, 29749	4.9	26
57	High information capacity DNA-based data storage with augmented encoding characters using degenerate bases. <i>Scientific Reports</i> , 2019 , 9, 6582	4.9	25
56	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
55	Optofluidic in situ maskless lithography of charge selective nanoporous hydrogel for DNA preconcentration. <i>Biomicrofluidics</i> , 2010 , 4, 43014	3.2	24
54	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
53	A Reconfigurable DNA Accordion Rack. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 2811-2815	16.4	21
52	Liquid-capped encoded microcapsules for multiplex assays. <i>Lab on A Chip</i> , 2017 , 17, 429-437	7.2	20
51	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
50	In Situ Fabrication and Actuation of Polymer Magnetic Microstructures. <i>Journal of Microelectromechanical Systems</i> , 2011 , 20, 785-787	2.5	18
49	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
48	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
47	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
46	Idiopathic hypereosinophilia is clonal disorder? Clonality identified by targeted sequencing. <i>PLoS ONE</i> , 2017 , 12, e0185602	3.7	14

45	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
44	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
43	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
42	Evaluating Tumor Evolution via Genomic Profiling of Individual Tumor Spheroids in a Malignant Ascites. <i>Scientific Reports</i> , 2018 , 8, 12724	4.9	10
41	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
40	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
39	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
38	High-throughput retrieval of physical DNA for NGS-identifiable clones in phage display library. <i>MAbs</i> , 2019 , 11, 532-545	6.6	9
37	Barcode-free next-generation sequencing error validation for ultra-rare variant detection. <i>Nature Communications</i> , 2019 , 10, 977	17.4	9
36	Uniform Drug Loading into Prefabricated Microparticles by Freeze-Drying. <i>Particle and Particle Systems Characterization</i> , 2017 , 34, 1600427	3.1	8
35	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
34	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
33	Direct 2D-to-3D transformation of pen drawings. <i>Science Advances</i> , 2021 , 7,	14.3	7
32	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
31	Targeted sequencing aids in identifying clonality in chronic myelomonocytic leukemia. <i>Leukemia Research</i> , 2019 , 84, 106190	2.7	6
30	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
29	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
28	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

27	Photopatterned microswimmers with programmable motion without external stimuli. <i>Nature Communications</i> , 2021 , 12, 4724	17.4	5
26	Purification of multiplex oligonucleotide libraries by synthesis and selection. <i>Nature Biotechnology</i> , 2021 ,	44.5	4
25	A Reconfigurable DNA Accordion Rack. <i>Angewandte Chemie</i> , 2018 , 130, 2861-2865	3.6	4
24	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
23	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
22	Fiber composite slices for multiplexed immunoassays. <i>Biomicrofluidics</i> , 2015 , 9, 044109	3.2	3
21	Microspinning: Local Surface Mixing via Rotation of Magnetic Microparticles for Efficient Small-Volume Bioassays. <i>Micromachines</i> , 2020 , 11,	3.3	3
20	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
19	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
18	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
17	Biomimetics: Biomimetic Microfingerprints for Anti-Counterfeiting Strategies (Adv. Mater. 12/2015). <i>Advanced Materials</i> , 2015 , 27, 2123-2123	24	2
16	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
15	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
14	Optofluidic Maskless Lithography System 2007 ,		2
13	High-throughput retrieval of physical DNA for NGS-identifiable clones in phage display library		2
12	Nasopharyngeal Type-I Interferon for Immediately Available Prophylaxis Against Emerging Respiratory Viral Infections. <i>Frontiers in Immunology</i> , 2021 , 12, 660298	8.4	2
11	Design and Synthesis of a Reconfigurable DNA Accordion Rack. <i>Journal of Visualized Experiments</i> , 2018 ,	1.6	1
10	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

9	Sorting microparticles by orientation using wedged-fin and railed microfluidics 2009 ,		1
8	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
7	Optics and Fluidics. <i>Microtechnology and MEMS</i> , 2020 , 197-234	0.6	1
6	A High-Throughput Single-Clone Phage Fluorescence Microwell Immunoassay and Laser-Driven Clonal Retrieval System. <i>Biomolecules</i> , 2020 , 10,	5.9	1
5	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
4	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
3	Spatial epitranscriptomics reveals A-to-I editome specific to cancer stem cell microniches.. <i>Nature Communications</i> , 2022 , 13, 2540	17.4	0
2	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	
1	Micro-Concentrator Photovoltaics Using Fluidic Self-Assembly Technology. <i>Advanced Materials Technologies</i> , 2100312	6.8	