

# Kwanghun Chung

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9213212/publications.pdf>

Version: 2024-02-01

54  
papers

7,079  
citations

159585  
30  
h-index

214800  
47  
g-index

58  
all docs

58  
docs citations

58  
times ranked

9195  
citing authors

#	ARTICLE	IF	CITATIONS
1	Spatial mapping of protein composition and tissue organization: a primer for multiplexed antibody-based imaging. <i>Nature Methods</i> , 2022, 19, 284-295.	19.0	156
2	Optimization of Capacity Allocation Models with Effort Dependent Demand in Global Supply Chain. <i>Sustainability</i> , 2022, 14, 1375.	3.2	2
3	Autism genes converge on asynchronous development of shared neuron classes. <i>Nature</i> , 2022, 602, 268-273.	27.8	180
4	Functional dissection of neural circuitry using a genetic reporter for fMRI. <i>Nature Neuroscience</i> , 2022, 25, 390-398.	14.8	11
5	Brain-wide mapping reveals that engrams for a single memory are distributed across multiple brain regions. <i>Nature Communications</i> , 2022, 13, 1799.	12.8	88
6	Basic principles of hydrogel-based tissue transformation technologies and their applications. <i>Cell</i> , 2021, 184, 4115-4136.	28.9	37
7	Cellular anatomy of the mouse primary motor cortex. <i>Nature</i> , 2021, 598, 159-166.	27.8	117
8	Epitope-preserving magnified analysis of proteome (eMAP). <i>Science Advances</i> , 2021, 7, eabf6589.	10.3	22
9	Tissue clearing and its applications in neuroscience. <i>Nature Reviews Neuroscience</i> , 2020, 21, 61-79.	10.2	350
10	Multiscale 3D phenotyping of human cerebral organoids. <i>Scientific Reports</i> , 2020, 10, 21487.	3.3	46
11	Elasticizing tissues for reversible shape transformation and accelerated molecular labeling. <i>Nature Methods</i> , 2020, 17, 609-613.	19.0	49
12	Multi-sensory Gamma Stimulation Ameliorates Alzheimer's-Associated Pathology and Improves Cognition. <i>Cell</i> , 2019, 177, 256-271.e22.	28.9	423
13	Protection of tissue physicochemical properties using polyfunctional crosslinkers. <i>Nature Biotechnology</i> , 2019, 37, 73-83.	17.5	262
14	Npas4 Is a Critical Regulator of Learning-Induced Plasticity at Mossy Fiber-CA3 Synapses during Contextual Memory Formation. <i>Neuron</i> , 2018, 97, 1137-1152.e5.	8.1	68
15	Learning-based long-range axon tracing in dense scenes. , 2018, , .		5
16	Interruption Cost Evaluation by Cognitive Workload and Task Performance in Interruption Coordination Modes for Human-Computer Interaction Tasks. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 1780.	2.5	12
17	Whole-Brain Analysis of Cells and Circuits by Tissue Clearing and Light-Sheet Microscopy. <i>Journal of Neuroscience</i> , 2018, 38, 9330-9337.	3.6	45
18	Rapid drug screen using 3D tumor organoids. <i>Science Translational Medicine</i> , 2018, 10, .	12.4	6

#	ARTICLE	IF	CITATIONS
19	Self-organized developmental patterning and differentiation in cerebral organoids. <i>EMBO Journal</i> , 2017, 36, 1316-1329.	7.8	300
20	Label-free volumetric optical imaging of intact murine brains. <i>Scientific Reports</i> , 2017, 7, 46306.	3.3	13
21	Depolarization signatures map gold nanorods within biological tissue. <i>Nature Photonics</i> , 2017, 11, 583-588.	31.4	25
22	In situ expansion of engineered human liver tissue in a mouse model of chronic liver disease. <i>Science Translational Medicine</i> , 2017, 9, .	12.4	133
23	Automated dense neuronal fiber tracing and connectivity mapping at cellular level. , 2017, , .		1
24	A Joint Optimal Decision on Shipment Size and Carbon Reduction under Direct Shipment and Peddling Distribution Strategies. <i>Sustainability</i> , 2017, 9, 2061.	3.2	2
25	Kill or be killed: The epic battle between Zika virus and cells revealed. <i>Science Translational Medicine</i> , 2017, 9, .	12.4	0
26	Toward off-the-shelf adoptive T cell therapies. <i>Science Translational Medicine</i> , 2017, 9, .	12.4	1
27	Modeling human brain development. <i>Science Translational Medicine</i> , 2017, 9, .	12.4	0
28	Accelerating the production of insulating brain cells. <i>Science Translational Medicine</i> , 2017, 9, .	12.4	0
29	A bigger and better picture of clinical samples. <i>Science Translational Medicine</i> , 2017, 9, .	12.4	0
30	A 3D view of tumor heterogeneity. <i>Science Translational Medicine</i> , 2017, 9, .	12.4	0
31	Whole-brain imaging reaches new heights (and lengths). <i>ELife</i> , 2016, 5, e13367.	6.0	10
32	Multiplexed and scalable super-resolution imaging of three-dimensional protein localization in size-adjustable tissues. <i>Nature Biotechnology</i> , 2016, 34, 973-981.	17.5	351
33	Min-max regret version of a scheduling problem with outsourcing decisions under processing time uncertainty. <i>European Journal of Operational Research</i> , 2016, 252, 367-375.	5.7	19
34	Simple, Scalable Proteomic Imaging for High-Dimensional Profiling of Intact Systems. <i>Cell</i> , 2015, 163, 1500-1514.	28.9	391
35	Stochastic electrotransport selectively enhances the transport of highly electromobile molecules. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E6274-83.	7.1	195
36	Staffing a service system with appointment-based customer arrivals. <i>Journal of the Operational Research Society</i> , 2014, 65, 1533-1543.	3.4	4

#	ARTICLE	IF	CITATIONS
37	Lifted inequalities for $\mathbb{Z}^n$ mixed-integer bilinear covering sets. <i>Mathematical Programming</i> , 2014, 145, 403-450.	2.4	2
38	Light microscopy mapping of connections in the intact brain. <i>Trends in Cognitive Sciences</i> , 2013, 17, 596-599.	7.8	66
39	Structural and molecular interrogation of intact biological systems. <i>Nature</i> , 2013, 497, 332-337.	27.8	1,765
40	CLARITY for mapping the nervous system. <i>Nature Methods</i> , 2013, 10, 508-513.	19.0	654
41	The open connectome project data cluster. , 2013, , .		38
42	Imaging Single-Cell Signaling Dynamics with a Deterministic High-Density Single-Cell Trap Array. <i>Analytical Chemistry</i> , 2011, 83, 7044-7052.	6.5	130
43	Microfluidic chamber arrays for whole-organism behavior-based chemical screening. <i>Lab on A Chip</i> , 2011, 11, 3689.	6.0	103
44	Gene Regulation by MAPK Substrate Competition. <i>Developmental Cell</i> , 2011, 20, 880-887.	7.0	55
45	A microfluidic array for large-scale ordering and orientation of embryos. <i>Nature Methods</i> , 2011, 8, 171-176.	19.0	133
46	A computational statistics approach for estimating the spatial range of morphogen gradients. <i>Development (Cambridge)</i> , 2011, 138, 4867-4874.	2.5	24
47	Strong valid inequalities for orthogonal disjunctions and bilinear covering sets. <i>Mathematical Programming</i> , 2010, 124, 481-512.	2.4	30
48	Microfluidics-enabled phenotyping, imaging, and screening of multicellular organisms. <i>Lab on A Chip</i> , 2010, 10, 1509.	6.0	104
49	Three-Dimensional in Situ Temperature Measurement in Microsystems Using Brownian Motion of Nanoparticles. <i>Analytical Chemistry</i> , 2009, 81, 991-999.	6.5	21
50	Automated high-throughput cell microsurgery on-chip. <i>Lab on A Chip</i> , 2009, 9, 2764.	6.0	69
51	Computer-enhanced high-throughput genetic screens of <i>C. elegans</i> in a microfluidic system. <i>Lab on A Chip</i> , 2009, 9, 38-40.	6.0	70
52	Multiplex pressure measurement in microsystems using volume displacement of particle suspensions. <i>Lab on A Chip</i> , 2009, 9, 3345.	6.0	34
53	Automated on-chip rapid microscopy, phenotyping and sorting of <i>C. elegans</i> . <i>Nature Methods</i> , 2008, 5, 637-643.	19.0	354
54	How does dextran sulfate prevent heat induced aggregation of protein?: The mechanism and its limitation as aggregation inhibitor. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2007, 1774, 249-257.	2.3	33