

Won Do Heo

List of Publications by Year in descending order

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Version: 2024-02-01

78
papers

7,531
citations

81889

39
h-index

71682

76
g-index

81
all docs

81
docs citations

81
times ranked

9778
citing authors

#	ARTICLE	IF	CITATIONS
1	Opto-vTrap, an optogenetic trap for reversible inhibition of vesicular release, synaptic transmission, and behavior. <i>Neuron</i> , 2022, 110, 423-435.e4.	8.1	8
2	The emergence of molecular systems neuroscience. <i>Molecular Brain</i> , 2022, 15, 7.	2.6	7
3	Optogenetic Activation of Intracellular Nanobodies. <i>Methods in Molecular Biology</i> , 2022, 2446, 595-606.	0.9	0
4	Artificial Intelligenceâ€‘Powered Spatial Analysis of Tumor-Infiltrating Lymphocytes as Complementary Biomarker for Immune Checkpoint Inhibition in Nonâ€‘Small-Cell Lung Cancer. <i>Journal of Clinical Oncology</i> , 2022, 40, 1916-1928.	1.6	94
5	miR-4742â€‘5p promotes invasiveness of gastric cancer via targeting Rab43: An inâ€‘vitro study. <i>Biochemical and Biophysical Research Communications</i> , 2022, 613, 180-186.	2.1	3
6	Artificial intelligenceâ€‘powered programmed death ligandâ€‘1 analyser reduces interobserver variation in tumour proportion score for nonâ€‘small cell lung cancer with better prediction of immunotherapy response. <i>European Journal of Cancer</i> , 2022, 170, 17-26.	2.8	21
7	CCR5 closes the temporal window for memory linking. <i>Nature</i> , 2022, 606, 146-152.	27.8	40
8	Optogenetic Control of Membrane Trafficking Using Light-Activated Reversible Inhibition by Assembly Trap of Intracellular Membranes (IM-LARIAT). <i>Methods in Molecular Biology</i> , 2022, , 309-331.	0.9	1
9	Novel culture system via wirelessly controllable optical stimulation of the FGF signaling pathway for human and pig pluripotency. <i>Biomaterials</i> , 2021, 269, 120222.	11.4	5
10	Cerebellar 5HT-2A receptor mediates stress-induced onset of dystonia. <i>Science Advances</i> , 2021, 7, .	10.3	19
11	Hijacking of the host cell Golgi by <i>Plasmodium berghei</i> liver stage parasites. <i>Journal of Cell Science</i> , 2021, 134, .	2.0	15
12	Revisiting the Role of TGFÎ² Receptor Internalization for Smad Signaling: It is Not Required in Optogenetic TGFÎ² Signaling Systems. <i>Advanced Biology</i> , 2021, 5, e2101008.	2.5	1
13	A PTEN variant uncouples longevity from impaired fitness in <i>Caenorhabditis elegans</i> with reduced insulin/IGF-1 signaling. <i>Nature Communications</i> , 2021, 12, 5631.	12.8	15
14	Label-free multiplexed microtomography of endogenous subcellular dynamics using generalizable deep learning. <i>Nature Cell Biology</i> , 2021, 23, 1329-1337.	10.3	47
15	An inducible system for inâ€‘vitro and inâ€‘vivo Fas activation using FKBP-FRB-rapamycin complex. <i>Biochemical and Biophysical Research Communications</i> , 2020, 523, 473-480.	2.1	3
16	Mutations in FAM50A suggest that Armfield XLID syndrome is a spliceosomopathy. <i>Nature Communications</i> , 2020, 11, 3698.	12.8	38
17	Dynamic Fas signaling network regulates neural stem cell proliferation and memory enhancement. <i>Science Advances</i> , 2020, 6, eaaz9691.	10.3	11
18	Optogenetic control of mRNA localization and translation in live cells. <i>Nature Cell Biology</i> , 2020, 22, 341-352.	10.3	49

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19	Non-invasive optical control of endogenous Ca ²⁺ channels in awake mice. <i>Nature Communications</i> , 2020, 11, 210.	12.8	40
20	Optogenetic tools for dissecting complex intracellular signaling pathways. <i>Biochemical and Biophysical Research Communications</i> , 2020, 527, 331-336.	2.1	13
21	Optogenetic Modulation of TrkB Signaling in the Mouse Brain. <i>Journal of Molecular Biology</i> , 2020, 432, 815-827.	4.2	11
22	Optogenetic activation of intracellular antibodies for direct modulation of endogenous proteins. <i>Nature Methods</i> , 2019, 16, 1095-1100.	19.0	95
23	Locally Activating TrkB Receptor Generates Actin Waves and Specifies Axonal Fate. <i>Cell Chemical Biology</i> , 2019, 26, 1652-1663.e4.	5.2	26
24	Noninvasive optical activation of Flp recombinase for genetic manipulation in deep mouse brain regions. <i>Nature Communications</i> , 2019, 10, 314.	12.8	48
25	Intensiometric biosensors visualize the activity of multiple small GTPases in vivo. <i>Nature Communications</i> , 2019, 10, 211.	12.8	30
26	Spatiotemporal Control of TGF- β 2 Signaling with Light. <i>ACS Synthetic Biology</i> , 2018, 7, 443-451.	3.8	34
27	<i>Salmonella</i> exploits host Rho GTPase signalling pathways through the phosphatase activity of SopB. <i>Cellular Microbiology</i> , 2018, 20, e12938.	2.1	22
28	Reciprocal control of excitatory synapse numbers by Wnt and Wnt inhibitor PRR7 secreted on exosomes. <i>Nature Communications</i> , 2018, 9, 3434.	12.8	42
29	Synergistic Ensemble of Optogenetic Actuators and Dynamic Indicators in Cell Biology. <i>Molecules and Cells</i> , 2018, 41, 809-817.	2.6	7
30	Cell-matrix adhesion and cell-cell adhesion differentially control basal myosin oscillation and <i>Drosophila</i> egg chamber elongation. <i>Nature Communications</i> , 2017, 8, 14708.	12.8	56
31	Optogenetic protein clustering through fluorescent protein tagging and extension of CRY2. <i>Nature Communications</i> , 2017, 8, 30.	12.8	107
32	Correlative three-dimensional fluorescence and refractive index tomography: bridging the gap between molecular specificity and quantitative bioimaging. <i>Biomedical Optics Express</i> , 2017, 8, 5688.	2.9	71
33	LAR-RPTP Clustering Is Modulated by Competitive Binding between Synaptic Adhesion Partners and Heparan Sulfate. <i>Frontiers in Molecular Neuroscience</i> , 2017, 10, 327.	2.9	25
34	Nonislet Cell Tumor Hypoglycemia in a Patient with Adrenal Cortical Carcinoma. <i>Case Reports in Endocrinology</i> , 2016, 2016, 1-4.	0.4	6
35	Release of Infectious Hepatitis C Virus from Huh7 Cells Occurs via a trans-Golgi Network-to-Endosome Pathway Independent of Very-Low-Density Lipoprotein Secretion. <i>Journal of Virology</i> , 2016, 90, 7159-7170.	3.4	41
36	Optogenetic toolkit reveals the role of Ca ²⁺ sparklets in coordinated cell migration. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 5952-5957.	7.1	57

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37	Optogenetic oligomerization of Rab GTPases regulates intracellular membrane trafficking. <i>Nature Chemical Biology</i> , 2016, 12, 431-436.	8.0	58
38	Neurotrophin-3 Regulates Synapse Development by Modulating TrkC-PTP β Synaptic Adhesion and Intracellular Signaling Pathways. <i>Journal of Neuroscience</i> , 2016, 36, 4816-4831.	3.6	56
39	PLEKHG3 enhances polarized cell migration by activating actin filaments at the cell front. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 10091-10096.	7.1	27
40	Exosome engineering for efficient intracellular delivery of soluble proteins using optically reversible protein-protein interaction module. <i>Nature Communications</i> , 2016, 7, 12277.	12.8	420
41	Optogenetic Control of Fibroblast Growth Factor Receptor Signaling. <i>Methods in Molecular Biology</i> , 2016, 1408, 345-362.	0.9	4
42	Protein Inactivation by Optogenetic Trapping in Living Cells. <i>Methods in Molecular Biology</i> , 2016, 1408, 363-376.	0.9	5
43	Optogenetic control of cell signaling pathway through scattering skull using wavefront shaping. <i>Scientific Reports</i> , 2015, 5, 13289.	3.3	39
44	Optogenetic control of endogenous Ca ²⁺ channels in vivo. <i>Nature Biotechnology</i> , 2015, 33, 1092-1096.	17.5	147
45	Lpg0393 of <i>Legionella pneumophila</i> Is a Guanine-Nucleotide Exchange Factor for Rab5, Rab21 and Rab22. <i>PLoS ONE</i> , 2015, 10, e0118683.	2.5	16
46	Optogenetic regulation of cellular functions through an intact skull using wavefront shaping. , 2015, , .		0
47	Structural basis for LAR-RPTP/Slitrk complex-mediated synaptic adhesion. <i>Nature Communications</i> , 2014, 5, 5423.	12.8	94
48	Light-inducible receptor tyrosine kinases that regulate neurotrophin signalling. <i>Nature Communications</i> , 2014, 5, 4057.	12.8	123
49	Spatiotemporal Control of Fibroblast Growth Factor Receptor Signals by Blue Light. <i>Chemistry and Biology</i> , 2014, 21, 903-912.	6.0	161
50	Reversible protein inactivation by optogenetic trapping in cells. <i>Nature Methods</i> , 2014, 11, 633-636.	19.0	183
51	Formin-mediated actin polymerization promotes <i>Salmonella</i> invasion. <i>Cellular Microbiology</i> , 2013, 15, 2051-2063.	2.1	22
52	Real-time single-molecule co-immunoprecipitation analyses reveal cancer-specific Ras signalling dynamics. <i>Nature Communications</i> , 2013, 4, 1505.	12.8	66
53	VipD of <i>Legionella pneumophila</i> Targets Activated Rab5 and Rab22 to Interfere with Endosomal Trafficking in Macrophages. <i>PLoS Pathogens</i> , 2012, 8, e1003082.	4.7	89
54	Phosphoinositides Differentially Regulate Protrudin Localization through the FYVE Domain. <i>Journal of Biological Chemistry</i> , 2012, 287, 41268-41276.	3.4	33

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55	The crossregulation between ERK and PI3K signaling pathways determines the tumoricidal efficacy of MEK inhibitor. <i>Journal of Molecular Cell Biology</i> , 2012, 4, 153-163.	3.3	65
56	Cooperative Activation of PI3K by Ras and Rho Family Small GTPases. <i>Molecular Cell</i> , 2012, 47, 281-290.	9.7	146
57	Salmonella exploits Arl8B-directed kinesin activity to promote endosome tubulation and cell-to-cell transfer. <i>Cellular Microbiology</i> , 2011, 13, 1812-1823.	2.1	43
58	Comparative analysis of the role of small G proteins in cell migration and cell death: Cytoprotective and promigratory effects of RalA. <i>Experimental Cell Research</i> , 2011, 317, 2007-2018.	2.6	14
59	A hidden incoherent switch regulates RCAN1 in the calcineurin–NFAT signaling network. <i>Journal of Cell Science</i> , 2011, 124, 82-90.	2.0	45
60	Endocytic Rab proteins are required for hepatitis C virus replication complex formation. <i>Virology</i> , 2010, 398, 21-37.	2.4	57
61	Visualizing dynamic interaction between calmodulin and calmodulin-related kinases via a monitoring method in live mammalian cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 3412-3417.	7.1	18
62	The Phosphoinositide Phosphatase SopB Manipulates Membrane Surface Charge and Trafficking of the Salmonella-Containing Vacuole. <i>Cell Host and Microbe</i> , 2010, 7, 453-462.	11.0	144
63	Comprehensive Identification of PIP3-Regulated PH Domains from <i>C. elegans</i> to <i>H. sapiens</i> by Model Prediction and Live Imaging. <i>Molecular Cell</i> , 2008, 30, 381-392.	9.7	150
64	Phospholipase D Activity Regulates Integrin-mediated Cell Spreading and Migration by Inducing GTP-Rac Translocation to the Plasma Membrane. <i>Molecular Biology of the Cell</i> , 2008, 19, 3111-3123.	2.1	84
65	Participation of Rab5, an Early Endosome Protein, in Hepatitis C Virus RNA Replication Machinery. <i>Journal of Virology</i> , 2007, 81, 4551-4563.	3.4	111
66	A network of Rab GTPases controls phagosome maturation and is modulated by <i>Salmonella enterica</i> serovar Typhimurium. <i>Journal of Cell Biology</i> , 2007, 176, 263-268.	5.2	151
67	siRNA screen of the human signaling proteome identifies the PtdIns(3,4,5)P3-mTOR signaling pathway as a primary regulator of transferrin uptake. <i>Genome Biology</i> , 2007, 8, R142.	9.6	54
68	PI(3,4,5)P3 and PI(4,5)P2 Lipids Target Proteins with Polybasic Clusters to the Plasma Membrane. <i>Science</i> , 2006, 314, 1458-1461.	12.6	703
69	An inducible translocation strategy to rapidly activate and inhibit small GTPase signaling pathways. <i>Nature Methods</i> , 2005, 2, 415-418.	19.0	379
70	STIM Is a Ca ²⁺ Sensor Essential for Ca ²⁺ -Store-Depletion-Triggered Ca ²⁺ Influx. <i>Current Biology</i> , 2005, 15, 1235-1241.	3.9	1,907
71	Direct Interaction of a Divergent CaM Isoform and the Transcription Factor, MYB2, Enhances Salt Tolerance in <i>Arabidopsis</i> . <i>Journal of Biological Chemistry</i> , 2005, 280, 3697-3706.	3.4	246
72	Switch-of-Function Mutants Based on Morphology Classification of Ras Superfamily Small GTPases. <i>Cell</i> , 2003, 113, 315-328.	28.9	102

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73	Identification of Calmodulin Isoform-specific Binding Peptides from a Phage-displayed Random 22-mer Peptide Library. <i>Journal of Biological Chemistry</i> , 2002, 277, 21630-21638.	3.4	29
74	Identification of a Calmodulin-Regulated Soybean Ca ²⁺ -ATPase (SCA1) That Is Located in the Plasma Membrane. <i>Plant Cell</i> , 2000, 12, 1393-1407.	6.6	102
75	Competitive binding of calmodulin isoforms to calmodulin-binding proteins: implication for the function of calmodulin isoforms in plants. <i>BBA - Proteins and Proteomics</i> , 1999, 1433, 56-67.	2.1	44
76	Reciprocal Regulation of Mammalian Nitric Oxide Synthase and Calcineurin by Plant Calmodulin Isoforms. <i>Biochemistry</i> , 1998, 37, 15593-15597.	2.5	65
77	Differential Activation of NAD Kinase by Plant Calmodulin Isoforms THE CRITICAL ROLE OF DOMAIN I. <i>Journal of Biological Chemistry</i> , 1997, 272, 9252-9259.	3.4	68
78	Identification of a Novel Divergent Calmodulin Isoform from Soybean Which Has Differential Ability to Activate Calmodulin-dependent Enzymes. <i>Journal of Biological Chemistry</i> , 1995, 270, 21806-21812.	3.4	139