

# Dongryeol Ryu

## List of Publications by Citations

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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.

114  
papers

8,337  
citations

41  
h-index

91  
g-index

149  
ext. papers

10,062  
ext. citations

9.5  
avg, IF

5.78  
L-index

#	Paper	IF	Citations
114	Calorie restriction-like effects of 30 days of resveratrol supplementation on energy metabolism and metabolic profile in obese humans. <i>Cell Metabolism</i> , <b>2011</b> , 14, 612-22	24.6	924
113	The NAD(+)/Sirtuin Pathway Modulates Longevity through Activation of Mitochondrial UPR and FOXO Signaling. <i>Cell</i> , <b>2013</b> , 154, 430-41	56.2	747
112	Mitonuclear protein imbalance as a conserved longevity mechanism. <i>Nature</i> , <b>2013</b> , 497, 451-7	50.4	656
111	NAD+ repletion improves mitochondrial and stem cell function and enhances life span in mice. <i>Science</i> , <b>2016</b> , 352, 1436-43	33.3	645
110	Urolithin A induces mitophagy and prolongs lifespan in <i>C. elegans</i> and increases muscle function in rodents. <i>Nature Medicine</i> , <b>2016</b> , 22, 879-88	50.5	450
109	Upscaling sparse ground-based soil moisture observations for the validation of coarse-resolution satellite soil moisture products. <i>Reviews of Geophysics</i> , <b>2012</b> , 50,	23.1	387
108	Tetracyclines Disturb Mitochondrial Function across Eukaryotic Models: A Call for Caution in Biomedical Research. <i>Cell Reports</i> , <b>2015</b> , 10, 1681-1691	10.6	280
107	Field observations of soil moisture variability across scales. <i>Water Resources Research</i> , <b>2008</b> , 44,	5.4	242
106	Eliciting the mitochondrial unfolded protein response by nicotinamide adenine dinucleotide repletion reverses fatty liver disease in mice. <i>Hepatology</i> , <b>2016</b> , 63, 1190-204	11.2	223
105	A SIRT7-dependent acetylation switch of GABP $\alpha$ controls mitochondrial function. <i>Cell Metabolism</i> , <b>2014</b> , 20, 856-869	24.6	171
104	Growth differentiation factor 15 is a myomitokine governing systemic energy homeostasis. <i>Journal of Cell Biology</i> , <b>2017</b> , 216, 149-165	7.3	169
103	Metabolomics-assisted proteomics identifies succinylation and SIRT5 as important regulators of cardiac function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 4320-5	11.5	169
102	De novo NAD synthesis enhances mitochondrial function and improves health. <i>Nature</i> , <b>2018</b> , 563, 354-359	50.4	163
101	The mitophagy activator urolithin A is safe and induces a molecular signature of improved mitochondrial and cellular health in humans. <i>Nature Metabolism</i> , <b>2019</b> , 1, 595-603	14.6	160
100	NAD+ repletion improves muscle function in muscular dystrophy and counters global PARylation. <i>Science Translational Medicine</i> , <b>2016</b> , 8, 361ra139	17.5	152
99	Systemic autophagy insufficiency compromises adaptation to metabolic stress and facilitates progression from obesity to diabetes. <i>Nature Communications</i> , <b>2014</b> , 5, 4934	17.4	126
98	. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2014</b> , 52, 490-507	8.1	121

97	AMPK-dependent repression of hepatic gluconeogenesis via disruption of CREB.CRTC2 complex by orphan nuclear receptor small heterodimer partner. <i>Journal of Biological Chemistry</i> , <b>2010</b> , 285, 32182-91	5.4	108
96	Correcting Unintended Perturbation Biases in Hydrologic Data Assimilation. <i>Journal of Hydrometeorology</i> , <b>2009</b> , 10, 734-750	3.7	106
95	Inter-comparison of microwave satellite soil moisture retrievals over the Murrumbidgee Basin, southeast Australia. <i>Remote Sensing of Environment</i> , <b>2013</b> , 134, 1-11	13.2	100
94	Orphan nuclear receptor estrogen-related receptor $\alpha$ (ERR $\alpha$ ) is key regulator of hepatic gluconeogenesis. <i>Journal of Biological Chemistry</i> , <b>2012</b> , 287, 21628-39	5.4	90
93	PARP inhibition protects against alcoholic and non-alcoholic steatohepatitis. <i>Journal of Hepatology</i> , <b>2017</b> , 66, 589-600	13.4	84
92	Beyond triple collocation: Applications to soil moisture monitoring. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2014</b> , 119, 6419-6439	4.4	82
91	Calibration of an impedance probe for estimation of surface soil water content over large regions. <i>Journal of Hydrology</i> , <b>2005</b> , 311, 49-58	6	82
90	The NAD-Booster Nicotinamide Riboside Potently Stimulates Hematopoiesis through Increased Mitochondrial Clearance. <i>Cell Stem Cell</i> , <b>2019</b> , 24, 405-418.e7	18	81
89	Upscaling of field-scale soil moisture measurements using distributed land surface modeling. <i>Advances in Water Resources</i> , <b>2005</b> , 28, 1-14	4.7	81
88	Inhibiting poly ADP-ribosylation increases fatty acid oxidation and protects against fatty liver disease. <i>Journal of Hepatology</i> , <b>2017</b> , 66, 132-141	13.4	80
87	Antibiotic use and abuse: a threat to mitochondria and chloroplasts with impact on research, health, and environment. <i>BioEssays</i> , <b>2015</b> , 37, 1045-53	4.1	74
86	Characterization of footprint-scale surface soil moisture variability using Gaussian and beta distribution functions during the Southern Great Plains 1997 (SGP97) hydrology experiment. <i>Water Resources Research</i> , <b>2005</b> , 41,	5.4	74
85	TORC2 regulates hepatic insulin signaling via a mammalian phosphatidic acid phosphatase, LIPIN1. <i>Cell Metabolism</i> , <b>2009</b> , 9, 240-51	24.6	69
84	Reduced oxidative capacity in macrophages results in systemic insulin resistance. <i>Nature Communications</i> , <b>2018</b> , 9, 1551	17.4	67
83	SUMOylation-dependent LRH-1/PROX1 interaction promotes atherosclerosis by decreasing hepatic reverse cholesterol transport. <i>Cell Metabolism</i> , <b>2014</b> , 20, 603-13	24.6	60
82	Suppressor of MEK null (SMEK)/protein phosphatase 4 catalytic subunit (PP4C) is a key regulator of hepatic gluconeogenesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 17704-9	11.5	54
81	Reply to comment by H. Vereecken et al. on Field observations of soil moisture variability across scales <i>Water Resources Research</i> , <b>2008</b> , 44,	5.4	53
80	Inverse agonist of nuclear receptor ERR $\alpha$ mediates antidiabetic effect through inhibition of hepatic gluconeogenesis. <i>Diabetes</i> , <b>2013</b> , 62, 3093-102	0.9	52

79	Roux-en-y gastric bypass attenuates hepatic mitochondrial dysfunction in mice with non-alcoholic steatohepatitis. <i>Gut</i> , <b>2015</b> , 64, 673-83	19.2	51
78	Dual Forcing and State Correction via Soil Moisture Assimilation for Improved Rainfall Runoff Modeling. <i>Journal of Hydrometeorology</i> , <b>2014</b> , 15, 1832-1848	3.7	51
77	Endoplasmic reticulum stress promotes LIPIN2-dependent hepatic insulin resistance. <i>Diabetes</i> , <b>2011</b> , 60, 1072-81	0.9	48
76	Multi-scale spatial correlation and scaling behavior of surface soil moisture. <i>Geophysical Research Letters</i> , <b>2006</b> , 33,	4.9	45
75	Hypothalamic S1P/S1PR1 axis controls energy homeostasis. <i>Nature Communications</i> , <b>2014</b> , 5, 4859	17.4	42
74	LRH-1-dependent programming of mitochondrial glutamine processing drives liver cancer. <i>Genes and Development</i> , <b>2016</b> , 30, 1255-60	12.6	41
73	Automatic Coregistration Algorithm to Remove Canopy Shaded Pixels in UAV-Borne Thermal Images to Improve the Estimation of Crop Water Stress Index of a Drip-Irrigated Cabernet Sauvignon Vineyard. <i>Sensors</i> , <b>2018</b> , 18,	3.8	40
72	Optical Sensing of Vegetation Water Content: A Synthesis Study. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , <b>2015</b> , 8, 1456-1464	4.7	37
71	Phosphorylation of the nuclear receptor corepressor 1 by protein kinase B switches its corepressor targets in the liver in mice. <i>Hepatology</i> , <b>2015</b> , 62, 1606-18	11.2	37
70	Quantifying and Localizing the Mitochondrial Proteome Across Five Tissues in A Mouse Population. <i>Molecular and Cellular Proteomics</i> , <b>2018</b> , 17, 1766-1777	7.6	37
69	Clarifications on the Comparison Between SMOS, VUA, ASCAT, and ECMWF Soil Moisture Products Over Four Watersheds in U.S. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2014</b> , 52, 1901-1906	8.1	35
68	Assimilation of stream discharge for flood forecasting: The benefits of accounting for routing time lags. <i>Water Resources Research</i> , <b>2013</b> , 49, 1887-1900	5.4	34
67	An integrated error parameter estimation and lag-aware data assimilation scheme for real-time flood forecasting. <i>Journal of Hydrology</i> , <b>2014</b> , 519, 2722-2736	6	32
66	PKB/Akt phosphorylation of ERR $\alpha$ contributes to insulin-mediated inhibition of hepatic gluconeogenesis. <i>Diabetologia</i> , <b>2014</b> , 57, 2576-85	10.3	32
65	Impaired SUMOylation of nuclear receptor LRH-1 promotes nonalcoholic fatty liver disease. <i>Journal of Clinical Investigation</i> , <b>2017</b> , 127, 583-592	15.9	31
64	Loss of Sirt1 function improves intestinal anti-bacterial defense and protects from colitis-induced colorectal cancer. <i>PLoS ONE</i> , <b>2014</b> , 9, e102495	3.7	30
63	Macrophage NCOR1 protects from atherosclerosis by repressing a pro-atherogenic PPAR $\alpha$ signature. <i>European Heart Journal</i> , <b>2020</b> , 41, 995-1005	9.5	29
62	Growth differentiation factor 15 protects against the aging-mediated systemic inflammatory response in humans and mice. <i>Aging Cell</i> , <b>2020</b> , 19, e13195	9.9	27

61	Assimilation of stream discharge for flood forecasting: Updating a semidistributed model with an integrated data assimilation scheme. <i>Water Resources Research</i> , <b>2015</b> , 51, 3238-3258	5.4	25
60	Stand-alone error characterisation of microwave satellite soil moisture using a Fourier method. <i>Remote Sensing of Environment</i> , <b>2014</b> , 154, 115-126	13.2	25
59	Comparisons of cancer-associated fibroblasts in the intratumoral stroma and invasive front in colorectal cancer. <i>Medicine (United States)</i> , <b>2019</b> , 98, e15164	1.8	24
58	C1-Ten is a protein tyrosine phosphatase of insulin receptor substrate 1 (IRS-1), regulating IRS-1 stability and muscle atrophy. <i>Molecular and Cellular Biology</i> , <b>2013</b> , 33, 1608-20	4.8	23
57	Adiponectin and thiazolidinedione targets CRTC2 to regulate hepatic gluconeogenesis. <i>Experimental and Molecular Medicine</i> , <b>2009</b> , 41, 577-83	12.8	23
56	De-noising of passive and active microwave satellite soil moisture time series. <i>Geophysical Research Letters</i> , <b>2013</b> , 40, 3624-3630	4.9	21
55	Evaluation of post-retrieval de-noising of active and passive microwave satellite soil moisture. <i>Remote Sensing of Environment</i> , <b>2015</b> , 163, 127-139	13.2	20
54	Many Commonly Used Rainfall-Runoff Models Lack Long, Slow Dynamics: Implications for Runoff Projections. <i>Water Resources Research</i> , <b>2020</b> , 56, e2019WR025286	5.4	20
53	Wheat Canopy Structure and Surface Roughness Effects on Multiangle Observations at L-Band. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2012</b> , 50, 1498-1506	8.1	17
52	Cancer-Associated Fibroblasts and Desmoplastic Reactions Related to Cancer Invasiveness in Patients With Colorectal Cancer. <i>Annals of Coloproctology</i> , <b>2019</b> , 35, 36-46	1.9	17
51	Estimating annual water storage variations in medium-scale (2000-10 000 km <sup>2</sup> ) basins using microwave-based soil moisture retrievals. <i>Hydrology and Earth System Sciences</i> , <b>2017</b> , 21, 1849-1862	5.5	14
50	Implications of NAD boosters in translational medicine. <i>European Journal of Clinical Investigation</i> , <b>2020</b> , 50, e13334	4.6	13
49	Degradation of PHLPP2 by KCTD17, via a Glucagon-Dependent Pathway, Promotes Hepatic Steatosis. <i>Gastroenterology</i> , <b>2017</b> , 153, 1568-1580.e10	13.3	13
48	Sarcopenia and Muscle Aging: A Brief Overview. <i>Endocrinology and Metabolism</i> , <b>2020</b> , 35, 716-732	3.5	13
47	L-band microwave observations over land surface using a two-dimensional synthetic aperture radiometer. <i>Geophysical Research Letters</i> , <b>2007</b> , 34,	4.9	12
46	Bio-printing of aligned GelMa-based cell-laden structure for muscle tissue regeneration. <i>Bioactive Materials</i> , <b>2022</b> , 8, 57-70	16.7	12
45	GRACE and AMSR-E-based estimates of winter season solid precipitation accumulation in the Arctic drainage region. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115,		11
44	Soil Moisture Retrieval Using a Two-Dimensional L-Band Synthetic Aperture Radiometer in a Semiarid Environment. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2010</b> , 48, 4273-4284	8.1	11

43	A data-based predictive model for spatiotemporal variability in stream water quality. <i>Hydrology and Earth System Sciences</i> , <b>2020</b> , 24, 827-847	5.5	11
42	Satellite cell-specific ablation of Cdon impairs integrin activation, FGF signalling, and muscle regeneration. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , <b>2020</b> , 11, 1089-1103	10.3	10
41	. <i>IEEE Geoscience and Remote Sensing Letters</i> , <b>2012</b> , 9, 262-266	4.1	10
40	Improving root-zone soil moisture estimations using dynamic root growth and crop phenology. <i>Advances in Water Resources</i> , <b>2015</b> , 86, 170-183	4.7	9
39	Indoprofen prevents muscle wasting in aged mice through activation of PDK1/AKT pathway. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , <b>2020</b> , 11, 1070-1088	10.3	9
38	Sensitivity of multi-parameter soil moisture retrievals to incidence angle configuration. <i>Remote Sensing of Environment</i> , <b>2014</b> , 143, 64-72	13.2	9
37	Mitochondrial Quality Control in the Heart: New Drug Targets for Cardiovascular Disease. <i>Korean Circulation Journal</i> , <b>2020</b> , 50, 395-405	2.2	9
36	A New Drought Index for Soil Moisture Monitoring Based on MPDI-NDVI Trapezoid Space Using MODIS Data. <i>Remote Sensing</i> , <b>2021</b> , 13, 122	5	7
35	Investigation into sustainable water use in India using combined large-scale earth system-based modelling and census-based statistical data. <i>Journal of Hydrology</i> , <b>2020</b> , 587, 124930	6	6
34	Multidecadal Trend of Basin-Scale Evapotranspiration Estimated Using AVHRR Data in the Krishna River Basin, India. <i>Vadose Zone Journal</i> , <b>2013</b> , 12, vj2012.0118	2.7	6
33	Visible and Near-Infrared Reflectance Spectroscopy Analysis of a Coastal Soil Chronosequence. <i>Remote Sensing</i> , <b>2019</b> , 11, 2336	5	6
32	A Laboratory Study on Non-Invasive Soil Water Content Estimation Using Capacitive Based Sensors. <i>Sensors</i> , <b>2019</b> , 19,	3.8	5
31	Paeoniflorin Enhances Endometrial Receptivity through Leukemia Inhibitory Factor. <i>Biomolecules</i> , <b>2021</b> , 11,	5.9	5
30	A Bayesian approach to understanding the key factors influencing temporal variability in stream water quality a case study in the Great Barrier Reef catchments. <i>Hydrology and Earth System Sciences</i> , <b>2021</b> , 25, 2663-2683	5.5	5
29	Targeting Lactate Dehydrogenase A with Catechin Resensitizes SNU620/5FU Gastric Cancer Cells to 5-Fluorouracil. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	4
28	ZNF746/PARIS overexpression induces cellular senescence through FoxO1/p21 axis activation in myoblasts. <i>Cell Death and Disease</i> , <b>2020</b> , 11, 359	9.8	3
27	A Microfluidic Device to Fabricate One-Step Cell Bead-Laden Hydrogel Struts for Tissue Engineering. <i>Small</i> , <b>2021</b> , e2106487	11	3
26	SIRT7 modulates the stability and activity of the renal K-Cl cotransporter KCC4 through deacetylation. <i>EMBO Reports</i> , <b>2021</b> , 22, e50766	6.5	3

25	Improving the representation of cropland sites in the Community Land Model (CLM) version 5.0. <i>Geoscientific Model Development</i> , <b>2021</b> , 14, 573-601	6.3	3
24	A multi-model approach to assessing the impacts of catchment characteristics on spatial water quality in the Great Barrier Reef catchments. <i>Environmental Pollution</i> , <b>2021</b> , 288, 117337	9.3	3
23	Two-dimensional synthetic aperture radiometry over land surface during soil moisture experiment in 2003 (SMEX03) <b>2007</b> ,		2
22	Growth differentiation factor-15 prevents glucotoxicity and connexin-36 downregulation in pancreatic beta-cells. <i>Molecular and Cellular Endocrinology</i> , <b>2021</b> , 541, 111503	4.4	2
21	Drug evaluation based on phosphomimetic PDHA1 reveals the complexity of activity-related cell death in A549 non-small cell lung cancer cells. <i>BMB Reports</i> , <b>2021</b> , 54, 563-568	5.5	2
20	Artificial-intelligence-driven discovery of prognostic biomarker for sarcopenia. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , <b>2021</b> , 12, 2220	10.3	2
19	Macrophage Stimulated by Low Ambient Temperature Hasten Tumor Growth via Glutamine Production. <i>Biomedicines</i> , <b>2020</b> , 8,	4.8	2
18	Roles of ErbB3-binding protein 1 (EBP1) in embryonic development and gene-silencing control. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 24852-24860 <sup>11.5</sup>		2
17	Towards an ensemble-based short-term flood forecasting using an event-based flood model-incorporating catchment-average estimates of soil moisture. <i>Journal of Hydrology</i> , <b>2021</b> , 593, 125828	6	2
16	Autophagic defects observed in fibroblasts from a patient with Propeller protein-associated neurodegeneration. <i>American Journal of Medical Genetics, Part A</i> , <b>2021</b> , 185, 3866-3871	2.5	2
15	Soil Moisture Retrieval Using an L-Band Synthetic Aperture Radiometer During the Soil Moisture Experiments 2003 (SMEX03) and 2004 (SMEX04) <b>2008</b> ,		1
14	Introducing long-term trends into subseasonal temperature forecasts through trend-aware postprocessing. <i>International Journal of Climatology</i> ,	3.5	1
13	Inducible Prmt1 ablation in adult vascular smooth muscle leads to contractile dysfunction and aortic dissection. <i>Experimental and Molecular Medicine</i> , <b>2021</b> , 53, 1569-1579	12.8	1
12	GCN5 Maintains Muscle Integrity by Acetylating YY1 to Promote Dystrophin Expression		1
11	Mapping Very-High-Resolution Evapotranspiration from Unmanned Aerial Vehicle (UAV) Imagery. <i>ISPRS International Journal of Geo-Information</i> , <b>2021</b> , 10, 211	2.9	1
10	Quantifying the contribution of biophysical and environmental factors in uncertainty of modeling canopy conductance. <i>Journal of Hydrology</i> , <b>2021</b> , 592, 125612	6	1
9	The Oral Administration of Extract Improves Physical Performance through LDHA Modulation. <i>Molecules</i> , <b>2021</b> , 26,	4.8	1
8	PRMT7 ablation in cardiomyocytes causes cardiac hypertrophy and fibrosis through Eatenin dysregulation.. <i>Cellular and Molecular Life Sciences</i> , <b>2022</b> , 79, 99	10.3	0

7	Modeling Vegetation Water Stress over the Forest from Space: Temperature Vegetation Water Stress Index (TVWSI). <i>Remote Sensing</i> , <b>2021</b> , 13, 4635	5	0
6	Dependence of CWSI-Based Plant Water Stress Estimation with Diurnal Acquisition Times in a Nectarine Orchard. <i>Remote Sensing</i> , <b>2021</b> , 13, 2775	5	0
5	Using Remote Sensing Techniques to Improve Hydrological Predictions in a Rapidly Changing World. <i>Remote Sensing</i> , <b>2021</b> , 13, 3865	5	0
4	A Microfluidic Device to Fabricate One-Step Cell Bead-Laden Hydrogel Struts for Tissue Engineering (Small 1/2022). <i>Small</i> , <b>2022</b> , 18, 2270002	11	
3	The NAD <sup>+</sup> Salvage Pathway Potently Stimulates Hematopoiesis through Increased Mitochondrial Clearance and Asymmetric Division. <i>Blood</i> , <b>2018</b> , 132, 641-641	2.2	
2	Enhancing the Accuracy and Temporal Transferability of Irrigated Cropping Field Classification Using Optical Remote Sensing Imagery. <i>Remote Sensing</i> , <b>2022</b> , 14, 997	5	
1	Parsimonious Gap-Filling Models for Sub-Daily Actual Evapotranspiration Observations from Eddy-Covariance Systems. <i>Remote Sensing</i> , <b>2022</b> , 14, 1286	5	