

Hyongki Lee

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.

87

papers

2,164

citations

28

h-index

43

g-index

94

ext. papers

2,512

ext. citations

5.2

avg. IF

5.11

L-index

#	Paper	IF	Citations
87	Characterization of terrestrial water dynamics in the Congo Basin using GRACE and satellite radar altimetry. <i>Remote Sensing of Environment</i> , 2011 , 115, 3530-3538	13.2	109
86	Opportunities for hydrologic research in the Congo Basin. <i>Reviews of Geophysics</i> , 2016 , 54, 378-409	23.1	106
85	Characterization of complex fluvial systems using remote sensing of spatial and temporal water level variations in the Amazon, Congo, and Brahmaputra Rivers. <i>Earth Surface Processes and Landforms</i> , 2010 , 35, 294-304	3.7	104
84	. <i>IEEE Geoscience and Remote Sensing Magazine</i> , 2019 , 7, 40-58	8.9	94
83	Integrated analysis of PALSAR/Radarsat-1 InSAR and ENVISAT altimeter data for mapping of absolute water level changes in Louisiana wetlands. <i>Remote Sensing of Environment</i> , 2009 , 113, 2356-2365	13.2	86
82	Comparing satellite derived precipitation datasets using the Hillslope River Routing (HRR) model in the Congo River Basin. <i>Hydrological Processes</i> , 2011 , 25, 3216-3229	3.3	75
81	Analysis of the water level dynamics simulated by a global river model: A case study in the Amazon River. <i>Water Resources Research</i> , 2012 , 48,	5.4	73
80	How much groundwater did California's Central Valley lose during the 2012-2016 drought?. <i>Geophysical Research Letters</i> , 2017 , 44, 4872-4879	4.9	66
79	Proof of Concept of an Altimeter-Based River Forecasting System for Transboundary Flow Inside Bangladesh. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2014 , 7, 587-601	4.7	64
78	A Phase-Decomposition-Based PSInSAR Processing Method. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2016 , 54, 1074-1090	8.1	59
77	Characterization of surface water storage changes in Arctic lakes using simulated SWOT measurements. <i>International Journal of Remote Sensing</i> , 2010 , 31, 3931-3953	3.1	56
76	Laurentia crustal motion observed using TOPEX/POSEIDON radar altimetry over land. <i>Journal of Geodynamics</i> , 2008 , 46, 182-193	2.2	52
75	Monitoring Everglades freshwater marsh water level using L-band synthetic aperture radar backscatter. <i>Remote Sensing of Environment</i> , 2014 , 150, 66-81	13.2	44
74	Inter-comparison study of water level estimates derived from hydrodynamicHydrologic model and satellite altimetry for a complex deltaic environment. <i>Remote Sensing of Environment</i> , 2011 , 115, 1522-1531	13.2	44
73	Mapping wetland water depths over the central Congo Basin using PALSAR ScanSAR, Envisat altimetry, and MODIS VCF data. <i>Remote Sensing of Environment</i> , 2015 , 159, 70-79	13.2	42
72	Coseismic slip of the 2010 Mw 8.8 Great Maule, Chile, earthquake quantified by the inversion of GRACE observations. <i>Earth and Planetary Science Letters</i> , 2012 , 335-336, 167-179	5.3	42
71	Louisiana Wetland Water Level Monitoring Using Retracked TOPEX/POSEIDON Altimetry. <i>Marine Geodesy</i> , 2009 , 32, 284-302	1.2	40

70	Absolute water storages in the Congo River floodplains from integration of InSAR and satellite radar altimetry. <i>Remote Sensing of Environment</i> , 2017 , 201, 57-72	13.2	35
69	Analysis of the relationship between flooding area and water height in the Logone floodplain. <i>Physics and Chemistry of the Earth</i> , 2011 , 36, 232-240	3	35
68	Large-Scale L^0 -Norm and L^1 -Norm 2-D Phase Unwrapping. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2017 , 55, 4712-4728	8.1	33
67	. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2017 , 10, 3465-3481	4.7	33
66	Satellite Gravimetric Estimation of Groundwater Storage Variations Over Indus Basin in Pakistan. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2016 , 9, 3524-3534	4.7	31
65	Ensemble learning regression for estimating river discharges using satellite altimetry data: Central Congo River as a Test-bed. <i>Remote Sensing of Environment</i> , 2019 , 221, 741-755	13.2	31
64	A Novel Method for Deformation Estimation Based on Multibaseline InSAR Phase Unwrapping. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2018 , 56, 5231-5243	8.1	30
63	Toward Estimating Wetland Water Level Changes Based on Hydrological Sensitivity Analysis of PALSAR Backscattering Coefficients over Different Vegetation Fields. <i>Remote Sensing</i> , 2015 , 7, 3153-3183	5	29
62	Mathematical Framework for Phase-Triangulation Algorithms in Distributed-Scatterer Interferometry. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2015 , 12, 1838-1842	4.1	29
61	Calibration of two-dimensional floodplain modeling in the central Atchafalaya Basin Floodway System using SAR interferometry. <i>Water Resources Research</i> , 2012 , 48,	5.4	29
60	Mapping spatio-temporal water level variations over the central Congo River using PALSAR ScanSAR and Envisat altimetry data. <i>International Journal of Remote Sensing</i> , 2017 , 38, 7021-7040	3.1	28
59	Crossing the Valley of Death—Lessons Learned from Implementing an Operational Satellite-Based Flood Forecasting System. <i>Bulletin of the American Meteorological Society</i> , 2014 , 95, 1201-1207	6.1	28
58	Present-Day Lake Level Variation from Envisat Altimetry over the Northeastern Qinghai-Tibetan Plateau: Links with Precipitation and Temperature. <i>Terrestrial, Atmospheric and Oceanic Sciences</i> , 2011 , 22, 169-175	1.8	28
57	Validation of Jason-2 Altimeter Data by Waveform Retracking over California Coastal Ocean. <i>Marine Geodesy</i> , 2010 , 33, 304-316	1.2	26
56	Satellite-Based, Multi-Indices for Evaluation of Agricultural Droughts in a Highly Dynamic Tropical Catchment, Central Vietnam. <i>Water (Switzerland)</i> , 2018 , 10, 659	3	25
55	. <i>IEEE Geoscience and Remote Sensing Magazine</i> , 2014 , 2, 27-36	8.9	25
54	Continuously accelerating ice loss over Amundsen Sea catchment, West Antarctica, revealed by integrating altimetry and GRACE data. <i>Earth and Planetary Science Letters</i> , 2012 , 321-322, 74-80	5.3	25
53	Integrated groundwater resource management in Indus Basin using satellite gravimetry and physical modeling tools. <i>Environmental Monitoring and Assessment</i> , 2017 , 189, 128	3.1	24

52	Understanding satellite-based monthly-to-seasonal reservoir outflow estimation as a function of hydrologic controls. <i>Water Resources Research</i> , 2016 , 52, 4095-4115	5.4	24
51	Helmand River Hydrologic Studies Using ALOS PALSAR InSAR and ENVISAT Altimetry. <i>Marine Geodesy</i> , 2009 , 32, 320-333	1.2	21
50	The Improved Retrieval of Coastal Sea Surface Heights by Retracking Modified Radar Altimetry Waveforms. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2014 , 52, 991-1001	8.1	20
49	Envisat Altimetry Radar Waveform Retracking of Quasi-Specular Echoes over the Ice-Covered Qinghai Lake. <i>Terrestrial, Atmospheric and Oceanic Sciences</i> , 2013 , 24, 615	1.8	20
48	Estimation of Water Level Changes of Large-Scale Amazon Wetlands Using ALOS2 ScanSAR Differential Interferometry. <i>Remote Sensing</i> , 2018 , 10, 966	5	18
47	2-D Phase Unwrapping Using Minimum Infinity-Norm. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2018 , 15, 1887-1891	4.1	18
46	Application of retracked satellite altimetry for inland hydrologic studies. <i>International Journal of Remote Sensing</i> , 2010 , 31, 3913-3929	3.1	17
45	Estimating Flood Discharges in Reservoir-Regulated River Basins by Integrating Synthetic SWOT Satellite Observations and Hydrologic Modeling. <i>Journal of Hydrologic Engineering - ASCE</i> , 2016 , 21, 05015030	1.8	16
44	A model-aided satellite-altimetry-based flood forecasting system for the Mekong River. <i>Environmental Modelling and Software</i> , 2019 , 112, 112-127	5.2	16
43	Optimal Baseline Design for Multibaseline InSAR Phase Unwrapping. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2019 , 57, 5738-5750	8.1	15
42	Monitoring Reservoir Drought Dynamics with Landsat and Radar/Lidar Altimetry Time Series in Persistently Cloudy Eastern Brazil. <i>Remote Sensing</i> , 2019 , 11, 827	5	14
41	Estimation of Residual Motion Errors in Airborne SAR Interferometry Based on Time-Domain Backprojection and Multisquint Techniques. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2018 , 56, 2397-2407	8.1	14
40	Elevation changes of Bering Glacier System, Alaska, from 1992 to 2010, observed by satellite radar altimetry. <i>Remote Sensing of Environment</i> , 2013 , 132, 40-48	13.2	14
39	Airborne DInSAR Results Using Time-Domain Backprojection Algorithm: A Case Study Over the Slumgullion Landslide in Colorado With Validation Using Spaceborne SAR, Airborne LiDAR, and Ground-Based Observations. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2017 , 10, 4987-5000	4.7	12
38	. <i>IEEE Geoscience and Remote Sensing Magazine</i> , 2020 , 8, 120-135	8.9	11
37	A hydrologic routing model suitable for climate-scale simulations of arctic rivers: application to the Mackenzie River Basin. <i>Hydrological Processes</i> , 2015 , 29, 2751-2768	3.3	11
36	Regional Validation of Jason-2 Dual-Frequency Ionosphere Delays. <i>Marine Geodesy</i> , 2010 , 33, 272-284	1.2	11
35	Internal kinematics of the Slumgullion landslide (USA) from high-resolution UAVSAR InSAR data. <i>Remote Sensing of Environment</i> , 2020 , 251, 112057	13.2	11

34	Hydrological model using ground- and satellite-based data for river flow simulation towards supporting water resource management in the Red River Basin, Vietnam. <i>Journal of Environmental Management</i> , 2018 , 217, 346-355	7.9	10
33	Predicting Water Availability of the Regulated Mekong River Basin Using Satellite Observations and a Physical Model. <i>Asian Journal of Water, Environment and Pollution</i> , 2017 , 14, 39-48	0.7	10
32	Detecting vulnerability of humid tropical forests to multiple stressors. <i>One Earth</i> , 2021 , 4, 988-1003	8.1	10
31	An altimeter height extraction technique for dynamically changing rivers of South and South-East Asia. <i>Remote Sensing of Environment</i> , 2019 , 221, 24-37	13.2	10
30	Congo Floodplain Hydraulics using PALSAR InSAR and Envisat Altimetry Data. <i>Springer Remote Sensing/photogrammetry</i> , 2017 , 65-81	0.2	9
29	Towards a global Reservoir Assessment Tool for predicting hydrologic impacts and operating patterns of existing and planned reservoirs. <i>Environmental Modelling and Software</i> , 2021 , 140, 105043	5.2	9
28	Estimating discharges for poorly gauged river basin using ensemble learning regression with satellite altimetry data and a hydrologic model. <i>Advances in Space Research</i> , 2021 , 68, 607-618	2.4	9
27	A Multibaseline InSAR Phase Unwrapping Method Using Designed Optimal Baselines Obtained by Motion Compensation Algorithm. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2018 , 15, 1219-1223	4.1	9
26	AltEx: An open source web application and toolkit for accessing and exploring altimetry datasets. <i>Environmental Modelling and Software</i> , 2019 , 117, 164-175	5.2	8
25	How Does the Unique Space-Time Sampling of the SWOT Mission Influence River Discharge Series Characteristics?. <i>Geophysical Research Letters</i> , 2019 , 46, 8154-8161	4.9	8
24	Geodetic Constraints on the Qinghai-Tibetan Plateau Present-Day Geophysical Processes. <i>Terrestrial, Atmospheric and Oceanic Sciences</i> , 2011 , 22, 241-253	1.8	8
23	Satellite Observed Environmental Changes over the Qinghai-Tibetan Plateau. <i>Terrestrial, Atmospheric and Oceanic Sciences</i> , 2011 , 22, 229-239	1.8	7
22	Inter-annual Water Storage Changes in Asia from GRACE Data 2010 , 69-83		7
21	Hindcast and forecast of daily inundation extents using satellite SAR and altimetry data with rotated empirical orthogonal function analysis: Case study in Tonle Sap Lake Floodplain. <i>Remote Sensing of Environment</i> , 2020 , 241, 111732	13.2	7
20	Case Study: Rapid Urban Inundation Forecasting Technique Based on Quantitative Precipitation Forecast for Houston and Harris County Flood Control District. <i>Journal of Hydrologic Engineering - ASCE</i> , 2019 , 24, 05019017	1.8	6
19	Monitoring River Basin Development and Variation in Water Resources in Transboundary Imjin River in North and South Korea Using Remote Sensing. <i>Remote Sensing</i> , 2020 , 12, 195	5	6
18	Application of TOPEX Altimetry for Solid Earth Deformation Studies. <i>Terrestrial, Atmospheric and Oceanic Sciences</i> , 2008 , 19, 37	1.8	6
17	Mapping Forested Floodplain Topography Using InSAR and Radar Altimetry. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2019 , 12, 5189-5198	4.7	6

16	Daily River Discharge Estimation Using Multi-Mission Radar Altimetry Data and Ensemble Learning Regression in the Lower Mekong River Basin. <i>Remote Sensing</i> , 2019 , 11, 2684	5	6
15	Analysis of the Relationship among Flood Severity, Precipitation, and Deforestation in the Tonle Sap Lake Area, Cambodia Using Multi-Sensor Approach. <i>KSCE Journal of Civil Engineering</i> , 2019 , 23, 1330-1340	1.9	5
14	Streamflow prediction in geopolitically ungauged basins using satellite observations and regionalization at subcontinental scale. <i>Journal of Hydrology</i> , 2020 , 588, 125016	6	5
13	2017 ,		5
12	Controls of Terrestrial Water Storage Changes Over the Central Congo Basin Determined by Integrating PALSAR ScanSAR, Envisat Altimetry, and GRACE Data. <i>Geophysical Monograph Series</i> , 2014 , 115-129	1.1	5
11	Cost-effective monitoring of land subsidence in developing countries using semipermanent GPS stations: a test study over Houston, Texas. <i>Journal of Applied Remote Sensing</i> , 2017 , 11, 026033	1.4	5
10	Study of the variation of schistosomiasis risk in Lake Poyang in the People's Republic of China using multiple space-borne sensors for the monitoring and modelling. <i>Geospatial Health</i> , 2014 , 8, 353-64	2.2	5
9	Recent Glacier Dynamics in the Northern Novaya Zemlya Observed by Multiple Geodetic Techniques. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2017 , 10, 1290-1302	4.7	4
8	Assessment of Radar Waveform Retracked Jason-2 Altimetry Sea Surface Heights Near Taiwan Coastal Ocean. <i>Marine Geodesy</i> , 2012 , 35, 188-197	1.2	4
7	Multi-sensor Space Observation of Heavy Flood and Drought Conditions in the Amazon Region. <i>International Association of Geodesy Symposia</i> , 2014 , 311-317	0.8	3
6	Orbit Accuracy Requirement for ABYSS: The Space Station Radar Altimeter to Map Global Bathymetry. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2009 , 6, 653-657	4.1	2
5	Integrating Gravimetry Data With Thermal Infra-Red Data From Satellites to Improve Efficiency of Operational Irrigation Advisory in South Asia. <i>Water Resources Research</i> , 2021 , 57, e2020WR028654	5.4	2
4	Prospects of Global Navigation Satellite System (GNSS) reflectometry for geodynamic studies. <i>Advances in Space Research</i> , 2011 , 47, 1814-1822	2.4	1
3	Satellite Remote Sensing of Lakes and Wetlands 2016 , 57-72		1
2	Sources et puits d'eau des zones humides de la Cuvette Centrale en utilisant de multiples mesures de télédétection et un modèle hydrologique. <i>Geophysical Monograph Series</i> , 2022 , 245-253	1.1	
1	Sources and Sinks of Water of the Cuvette Centrale Wetlands Using Multiple Remote Sensing Measurements and a Hydrologic Model. <i>Geophysical Monograph Series</i> , 2022 , 237-245	1.1	