Hyongki Lee

List of Publications by Year in Descending Order

87	2,164	28	43
papers	citations	h-index	g-index

94	2,512	5.2	5.11
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
87	Sources et puits d'eau des zones humides de la Cuvette Centrale en utilisant de multiples mesures de télédétection et un modèle hydrologique. *Geophysical Monograph Series*, **2022**, 245-253	1.1	
86	Sources and Sinks of Water of the Cuvette Centrale Wetlands Using Multiple Remote Sensing Measurements and a Hydrologic Model. *Geophysical Monograph Series*, **2022**, 237-245	1.1	
85	Integrating Gravimetry Data With Thermal Infra-Red Data From Satellites to Improve Efficiency of Operational Irrigation Advisory in South Asia. *Water Resources Research*, **2021**, 57, e2020WR028654	5.4	2
84	Towards a global Reservoir Assessment Tool for predicting hydrologic impacts and operating patterns of existing and planned reservoirs. *Environmental Modelling and Software*, **2021**, 140, 105043	5.2	9
83	Detecting vulnerability of humid tropical forests to multiple stressors. *One Earth*, **2021**, 4, 988-1003	8.1	10
82	Estimating discharges for poorly gauged river basin using ensemble learning regression with satellite altimetry data and a hydrologic model. *Advances in Space Research*, **2021**, 68, 607-618	2.4	9
81	Monitoring River Basin Development and Variation in Water Resources in Transboundary Imjin River in North and South Korea Using Remote Sensing. *Remote Sensing*, **2020**, 12, 195	5	6
80	. *IEEE Geoscience and Remote Sensing Magazine*, **2020**, 8, 120-135	8.9	11
79	Streamflow prediction in geopolitically ungauged basins using satellite observations and regionalization at subcontinental scale. *Journal of Hydrology*, **2020**, 588, 125016	6	5
78	Internal kinematics of the Slumgullion landslide (USA) from high-resolution UAVSAR InSAR data. *Remote Sensing of Environment*, **2020**, 251, 112057	13.2	11
77	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. *Remote Sensing of Environment*, **2020**, 241, 111732	13.2	7
76	Analysis of the Relationship among Flood Severity, Precipitation, and Deforestation in the Tonle Sap Lake Area, Cambodia Using Multi-Sensor Approach. *KSCE Journal of Civil Engineering*, **2019**, 23, 1330-1340	1.9	5
75	Case Study: Rapid Urban Inundation Forecasting Technique Based on Quantitative Precipitation Forecast for Houston and Harris County Flood Control District. *Journal of Hydrologic Engineering - ASCE*, **2019**, 24, 05019017	1.8	6
74	Monitoring Reservoir Drought Dynamics with Landsat and Radar/Lidar Altimetry Time Series in Persistently Cloudy Eastern Brazil. *Remote Sensing*, **2019**, 11, 827	5	14
73	Optimal Baseline Design for Multibaseline InSAR Phase Unwrapping. *IEEE Transactions on Geoscience and Remote Sensing*, **2019**, 57, 5738-5750	8.1	15
72	. *IEEE Geoscience and Remote Sensing Magazine*, **2019**, 7, 40-58	8.9	94
71	AltEx: An open source web application and toolkit for accessing and exploring altimetry datasets. *Environmental Modelling and Software*, **2019**, 117, 164-175	5.2	8

70	How Does the Unique Space-Time Sampling of the SWOT Mission Influence River Discharge Series Characteristics?. *Geophysical Research Letters*, **2019**, 46, 8154-8161	4.9	8
69	Mapping Forested Floodplain Topography Using InSAR and Radar Altimetry. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, **2019**, 12, 5189-5198	4.7	6
68	Daily River Discharge Estimation Using Multi-Mission Radar Altimetry Data and Ensemble Learning Regression in the Lower Mekong River Basin. *Remote Sensing*, **2019**, 11, 2684	5	6
67	An altimeter height extraction technique for dynamically changing rivers of South and South-East Asia. *Remote Sensing of Environment*, **2019**, 221, 24-37	13.2	10
66	Ensemble learning regression for estimating river discharges using satellite altimetry data: Central Congo River as a Test-bed. *Remote Sensing of Environment*, **2019**, 221, 741-755	13.2	31
65	A model-aided satellite-altimetry-based flood forecasting system for the Mekong River. *Environmental Modelling and Software*, **2019**, 112, 112-127	5.2	16
64	Estimation of Residual Motion Errors in Airborne SAR Interferometry Based on Time-Domain Backprojection and Multisquint Techniques. *IEEE Transactions on Geoscience and Remote Sensing*, **2018**, 56, 2397-2407	8.1	14
63	A Novel Method for Deformation Estimation Based on Multibaseline InSAR Phase Unwrapping. *IEEE Transactions on Geoscience and Remote Sensing*, **2018**, 56, 5231-5243	8.1	30
62	Hydrological model using ground- and satellite-based data for river flow simulation towards supporting water resource management in the Red River Basin, Vietnam. *Journal of Environmental Management*, **2018**, 217, 346-355	7.9	10
61	Estimation of Water Level Changes of Large-Scale Amazon Wetlands Using ALOS2 ScanSAR Differential Interferometry. *Remote Sensing*, **2018**, 10, 966	5	18
60	Satellite-Based, Multi-Indices for Evaluation of Agricultural Droughts in a Highly Dynamic Tropical Catchment, Central Vietnam. *Water (Switzerland)*, **2018**, 10, 659	3	25
59	2-D Phase Unwrapping Using Minimum Infinity-Norm. *IEEE Geoscience and Remote Sensing Letters*, **2018**, 15, 1887-1891	4.1	18
58	A Multibaseline InSAR Phase Unwrapping Method Using Designed Optimal Baselines Obtained by Motion Compensation Algorithm. *IEEE Geoscience and Remote Sensing Letters*, **2018**, 15, 1219-1223	4.1	9
57	Recent Glacier Dynamics in the Northern Novaya Zemlya Observed by Multiple Geodetic Techniques. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, **2017**, 10, 1290-1302	4.7	4
56	Integrated groundwater resource management in Indus Basin using satellite gravimetry and physical modeling tools. *Environmental Monitoring and Assessment*, **2017**, 189, 128	3.1	24
55	How much groundwater did California's Central Valley lose during the 2012⊠2016 drought?. *Geophysical Research Letters*, **2017**, 44, 4872-4879	4.9	66
54	Large-Scale ${L}^{0}$ -Norm and ${L}^{1}$ -Norm 2-D Phase Unwrapping. *IEEE Transactions on Geoscience and Remote Sensing*, **2017**, 55, 4712-4728	8.1	33
53	. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, **2017**, 10, 3465-3481	4.7	33

52	**2017**,		5
51	Mapping spatio-temporal water level variations over the central Congo River using PALSAR ScanSAR and Envisat altimetry data. *International Journal of Remote Sensing*, **2017**, 38, 7021-7040	3.1	28
50	Absolute water storages in the Congo River floodplains from integration of InSAR and satellite radar altimetry. *Remote Sensing of Environment*, **2017**, 201, 57-72	13.2	35
49	Predicting Water Availability of the Regulated Mekong River Basin Using Satellite Observations and a Physical Model. *Asian Journal of Water, Environment and Pollution*, **2017**, 14, 39-48	0.7	10
48	Cost-effective monitoring of land subsidence in developing countries using semipermanent GPS stations: a test study over Houston, Texas. *Journal of Applied Remote Sensing*, **2017**, 11, 026033	1.4	5
47	Congo Floodplain Hydraulics using PALSAR InSAR and Envisat Altimetry Data. *Springer Remote Sensing/photogrammetry*, **2017**, 65-81	0.2	9
46	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. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, **2017**, 10, 4987-5000	4.7	12
45	Understanding satellite-based monthly-to-seasonal reservoir outflow estimation as a function of hydrologic controls. *Water Resources Research*, **2016**, 52, 4095-4115	5.4	24
44	Satellite Gravimetric Estimation of Groundwater Storage Variations Over Indus Basin in Pakistan. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, **2016**, 9, 3524-3534	4.7	31
43	A Phase-Decomposition-Based PSInSAR Processing Method. *IEEE Transactions on Geoscience and Remote Sensing*, **2016**, 54, 1074-1090	8.1	59
42	Estimating Flood Discharges in Reservoir-Regulated River Basins by Integrating Synthetic SWOT Satellite Observations and Hydrologic Modeling. *Journal of Hydrologic Engineering - ASCE*, **2016**, 21, 05015030	1.8	16
41	Satellite Remote Sensing of Lakes and Wetlands **2016**, 57-72		1
40	Opportunities for hydrologic research in the Congo Basin. *Reviews of Geophysics*, **2016**, 54, 378-409	23.1	106
39	Mapping wetland water depths over the central Congo Basin using PALSAR ScanSAR, Envisat altimetry, and MODIS VCF data. *Remote Sensing of Environment*, **2015**, 159, 70-79	13.2	42
38	A hydrologic routing model suitable for climate-scale simulations of arctic rivers: application to the Mackenzie River Basin. *Hydrological Processes*, **2015**, 29, 2751-2768	3.3	11
37	Toward Estimating Wetland Water Level Changes Based on Hydrological Sensitivity Analysis of PALSAR Backscattering Coefficients over Different Vegetation Fields. *Remote Sensing*, **2015**, 7, 3153-3183	5	29
36	Mathematical Framework for Phase-Triangulation Algorithms in Distributed-Scatterer Interferometry. *IEEE Geoscience and Remote Sensing Letters*, **2015**, 12, 1838-1842	4.1	29
35	Proof of Concept of an Altimeter-Based River Forecasting System for Transboundary Flow Inside Bangladesh. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, **2014**, 7, 587-601	4.7	64

34	Monitoring Everglades freshwater marsh water level using L-band synthetic aperture radar backscatter. *Remote Sensing of Environment*, **2014**, 150, 66-81	13.2	44
33	Controls of Terrestrial Water Storage Changes Over the Central Congo Basin Determined by Integrating PALSAR ScanSAR, Envisat Altimetry, and GRACE Data. *Geophysical Monograph Series*, **2014**, 115-129	1.1	5
32	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. *Geospatial Health*, **2014**, 8, 353-64	2.2	5
31	. *IEEE Geoscience and Remote Sensing Magazine*, **2014**, 2, 27-36	8.9	25
30	Crossing the Valley of Death Lessons Learned from Implementing an Operational Satellite-Based Flood Forecasting System. *Bulletin of the American Meteorological Society*, **2014**, 95, 1201-1207	6.1	28
29	The Improved Retrieval of Coastal Sea Surface Heights by Retracking Modified Radar Altimetry Waveforms. *IEEE Transactions on Geoscience and Remote Sensing*, **2014**, 52, 991-1001	8.1	20
28	Multi-sensor Space Observation of Heavy Flood and Drought Conditions in the Amazon Region. *International Association of Geodesy Symposia*, **2014**, 311-317	0.8	3
27	Elevation changes of Bering Glacier System, Alaska, from 1992 to 2010, observed by satellite radar altimetry. *Remote Sensing of Environment*, **2013**, 132, 40-48	13.2	14
26	Envisat Altimetry Radar Waveform Retracking of Quasi-Specular Echoes over the Ice-Covered Qinghai Lake. *Terrestrial, Atmospheric and Oceanic Sciences*, **2013**, 24, 615	1.8	20
25	Continuously accelerating ice loss over Amundsen Sea catchment, West Antarctica, revealed by integrating altimetry and GRACE data. *Earth and Planetary Science Letters*, **2012**, 321-322, 74-80	5.3	25
24	Coseismic slip of the 2010 Mw 8.8 Great Maule, Chile, earthquake quantified by the inversion of GRACE observations. *Earth and Planetary Science Letters*, **2012**, 335-336, 167-179	5.3	42
23	Analysis of the water level dynamics simulated by a global river model: A case study in the Amazon River. *Water Resources Research*, **2012**, 48,	5.4	73
22	Calibration of two-dimensional floodplain modeling in the central Atchafalaya Basin Floodway System using SAR interferometry. *Water Resources Research*, **2012**, 48,	5.4	29
21	Assessment of Radar Waveform Retracked Jason-2 Altimetry Sea Surface Heights Near Taiwan Coastal Ocean. *Marine Geodesy*, **2012**, 35, 188-197	1.2	4
20	Analysis of the relationship between flooding area and water height in the Logone floodplain. *Physics and Chemistry of the Earth*, **2011**, 36, 232-240	3	35
19	Characterization of terrestrial water dynamics in the Congo Basin using GRACE and satellite radar altimetry. *Remote Sensing of Environment*, **2011**, 115, 3530-3538	13.2	109
18	Comparing satellite derived precipitation datasets using the Hillslope River Routing (HRR) model in the Congo River Basin. *Hydrological Processes*, **2011**, 25, 3216-3229	3.3	75
17	Prospects of Global Navigation Satellite System (GNSS) reflectometry for geodynamic studies. *Advances in Space Research*, **2011**, 47, 1814-1822	2.4	1

16	Inter-comparison study of water level estimates derived from hydrodynamic/Hydrologic model and satellite altimetry for a complex deltaic environment. *Remote Sensing of Environment*, **2011**, 115, 1522-1531	13.7	44
15	Satellite Observed Environmental Changes over the Qinghai-Tibetan Plateau. *Terrestrial, Atmospheric and Oceanic Sciences*, **2011**, 22, 229-239	1.8	7
14	Geodetic Constraints on the Qinghai-Tibetan Plateau Present-Day Geophysical Processes. *Terrestrial, Atmospheric and Oceanic Sciences*, **2011**, 22, 241-253	1.8	8
13	Present-Day Lake Level Variation from Envisat Altimetry over the Northeastern Qinghai-Tibetan Plateau: Links with Precipitation and Temperature. *Terrestrial, Atmospheric and Oceanic Sciences*, **2011**, 22, 169-175	1.8	28
12	Regional Validation of Jason-2 Dual-Frequency Ionosphere Delays. *Marine Geodesy*, **2010**, 33, 272-284	1.2	11
11	Characterization of surface water storage changes in Arctic lakes using simulated SWOT measurements. *International Journal of Remote Sensing*, **2010**, 31, 3931-3953	3.1	56
10	Application of retracked satellite altimetry for inland hydrologic studies. *International Journal of Remote Sensing*, **2010**, 31, 3913-3929	3.1	17
9	Validation of Jason-2 Altimeter Data by Waveform Retracking over California Coastal Ocean. *Marine Geodesy*, **2010**, 33, 304-316	1.2	26
8	Characterization of complex fluvial systems using remote sensing of spatial and temporal water level variations in the Amazon, Congo, and Brahmaputra Rivers. *Earth Surface Processes and Landforms*, **2010**, 35, 294-304	3.7	104
7	Inter-annual Water Storage Changes in Asia from GRACE Data **2010**, 69-83		7
6	Helmand River Hydrologic Studies Using ALOS PALSAR InSAR and ENVISAT Altimetry. *Marine Geodesy*, **2009**, 32, 320-333	1.2	21
5	Orbit Accuracy Requirement for ABYSS: The Space Station Radar Altimeter to Map Global Bathymetry. *IEEE Geoscience and Remote Sensing Letters*, **2009**, 6, 653-657	4.1	2
4	Integrated analysis of PALSAR/Radarsat-1 InSAR and ENVISAT altimeter data for mapping of absolute water level changes in Louisiana wetlands. *Remote Sensing of Environment*, **2009**, 113, 2356-2365	13.2	86
3	Louisiana Wetland Water Level Monitoring Using Retracked TOPEX/POSEIDON Altimetry. *Marine Geodesy*, **2009**, 32, 284-302	1.2	40
2	Laurentia crustal motion observed using TOPEX/POSEIDON radar altimetry over land. *Journal of Geodynamics*, **2008**, 46, 182-193	2.2	52
1	Application of TOPEX Altimetry for Solid Earth Deformation Studies. *Terrestrial, Atmospheric and Oceanic Sciences*, **2008**, 19, 37	1.8	6