Tae-Young Heo

List of Publications by Year
in descending order

33 papers	503 citations	687363 13 h-index	713466 21 g-index
33 all docs	33 docs citations	33 times ranked	575 citing authors

#	Article	IF	Citations
1	Prediction of Chlorophyll-a Concentrations in the Nakdong River Using Machine Learning Methods. Water (Switzerland), 2020, 12, 1822.	2.7	54
2	Interpretation of ensemble learning to predict water quality using explainable artificial intelligence. Science of the Total Environment, 2022, 832, 155070.	8.0	54
3	Modulation of Synaptic Plasticity Mimicked in Al Nanoparticle–Embedded IGZO Synaptic Transistor. Advanced Electronic Materials, 2020, 6, 1901072.	5.1	47
4	Algal Morphological Identification in Watersheds for Drinking Water Supply Using Neural Architecture Search for Convolutional Neural Network. Water (Switzerland), 2019, 11, 1338.	2.7	33
5	Comparison between Statistical Models and Machine Learning Methods on Classification for Highly Imbalanced Multiclass Kidney Data. Diagnostics, 2020, 10, 415.	2.6	28
6	Retraining prior state performances of anaerobic digestion improves prediction accuracy of methane yield in various machine learning models. Applied Energy, 2021, 298, 117250.	10.1	28
7	Oral diabetes medication and risk of dementia in elderly patients with type 2 diabetes. Diabetes Research and Clinical Practice, 2019, 154, 116-123.	2.8	27
8	Brassinosteroids facilitate xylem differentiation and wood formation in tomato. Planta, 2019, 249, 1391-1403.	3.2	25
9	Development of a Deep-Learning-Based Artificial Intelligence Tool for Differential Diagnosis between Dry and Neovascular Age-Related Macular Degeneration. Diagnostics, 2020, 10, 261.	2.6	23
10	Brassinosteroid–BZR1/2–WAT1 module determines the high level of auxin signalling in vascular cambium during wood formation. New Phytologist, 2021, 230, 1503-1516.	7.3	23
11	Development of a Fundus Image-Based Deep Learning Diagnostic Tool for Various Retinal Diseases. Journal of Personalized Medicine, 2021, 11, 321.	2.5	21
12	Metagenomics approach and canonical correspondence analysis of novel nitrifiers and ammonia-oxidizing archaea in full scale anaerobic-anoxic-oxic (A2/O) and oxidation ditch processes. Bioresource Technology, 2021, 319, 124205.	9.6	16
13	Evaluation of Hypertriglyceridemia as a Mediator Between Endocrine Diseases and Pancreatitis in Dogs. Journal of the American Animal Hospital Association, 2019, 55, 92-100.	1.1	14
14	Clustering of Time Series Water Quality Data Using Dynamic Time Warping: A Case Study from the Bukhan River Water Quality Monitoring Network. Water (Switzerland), 2020, 12, 2411.	2.7	14
15	Anomaly Detection with Feature Extraction Based on Machine Learning Using Hydraulic System IoT Sensor Data. Sensors, 2022, 22, 2479.	3.8	13
16	Acoustic Scene Classification and Visualization of Beehive Sounds Using Machine Learning Algorithms and Grad-CAM. Mathematical Problems in Engineering, 2021, 2021, 1-13.	1.1	10
17	Inhibition of Photosynthetic Activity in Wastewater-Borne Microalgal–Bacterial Consortia under Various Light Conditions. Sustainability, 2019, 11, 2951.	3.2	9
18	Ensemble Model Development for the Prediction of a Disaster Index in Water Treatment Systems. Water (Switzerland), 2020, 12, 3195.	2.7	9

#	Article	IF	Citations
19	Predictive model of geographical origin discrimination of paper mulberry and handmade paper using ICP-AES/MS and multivariate statistical analysis. Journal of Cultural Heritage, 2021, 49, 222-228.	3.3	8
20	Changes in Soil Chemical Properties Due to Long-Term Compost Fertilization Regulate Methane Turnover Related Gene Abundances in Rice Paddy. Applied Sciences (Switzerland), 2022, 12, 2652.	2.5	8
21	Safety Effects of Freeway Hard Shoulder Running. Applied Sciences (Switzerland), 2019, 9, 3614.	2.5	7
22	Intervention analysis of the impact of opening a new railway line on passenger ridership in Seoul. KSCE Journal of Civil Engineering, 2016, 20, 2524-2534.	1.9	6
23	An evaluation of the ramp metering effectiveness in reducing carbon dioxide emissions. Simulation, 2012, 88, 1368-1378.	1.8	4
24	Randomized Response Group Testing Model. Journal of Statistical Theory and Practice, 2013, 7, 33-48.	0.5	4
25	Evaluation of Odor Prediction Model Performance and Variable Importance according to Various Missing Imputation Methods. Applied Sciences (Switzerland), 2022, 12, 2826.	2.5	4
26	The Prediction of Diatom Abundance by Comparison of Various Machine Learning Methods. Mathematical Problems in Engineering, 2019, 2019, 1-13.	1.1	3
27	Analysis of the Railway Accident-Related Damages in South Korea. Applied Sciences (Switzerland), 2020, 10, 8769.	2.5	3
28	Trends in the Approval and Quality Management of Artificial Intelligence Medical Devices in the Republic of Korea. Diagnostics, 2022, 12, 355.	2.6	3
29	Determination of the Habitat Preferences of Dominant Epilithic Diatoms Using Statistical Models: A Case Study in the Han River, South Korea. Water (Switzerland), 2022, 14, 956.	2.7	2
30	The Recency Period for Estimation of Human Immunodeficiency Virus Incidence by the AxSYM Avidity Assay and BED-Capture Enzyme Immunoassay in the Republic of Korea. Osong Public Health and Research Perspectives, 2014, 5, 187-192.	1.9	1
31	Universal inherent fluctuations in statistical counting of large particles in slurry used for semiconductor manufacturing. Scientific Reports, 2020, 10, 14731.	3.3	1
32	The Relationship between Smoking and Hemoglobin A1c in Adults without Diabetes Mellitus according to Body Mass Index. Korean Journal of Family Practice, 2016, 6, 339-345.	0.3	1
33	The Relationship between Gallbladder Polyps and Carotid Plaques in Healthy Adults. Korean Journal of Family Practice, 2016, 6, 535-539.	0.3	0