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Publication Metrics

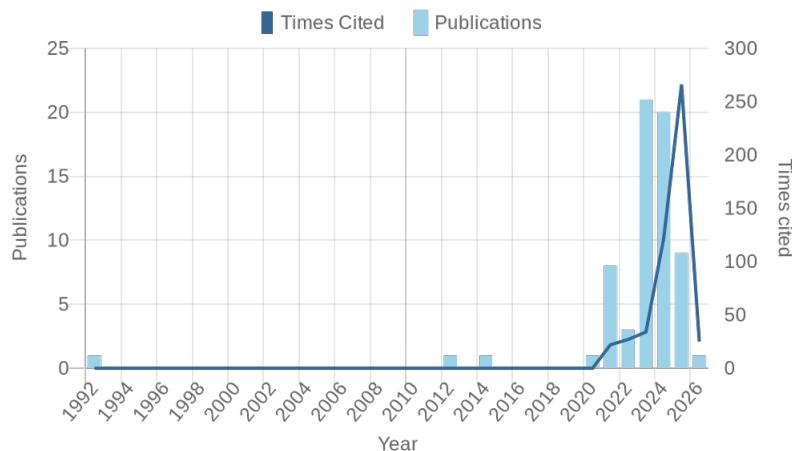
For manuscripts published from date range February 2021 - February 2026

14	470
H-index	Sum of Times Cited
63	61
Total Publications	Web of Science Core Collection Publications
2	
Sum of Times Cited by Patents	

For all time

14	496
H-index	Sum of Times Cited
73	66
Total Publications	Web of Science Core Collection Publications
3	
Sum of Times Cited by Patents	

Publication Impact Over Time



Publishing Summary

For manuscripts published from date range February 2021 - February 2026

(19) IEEE Access	(6) Sensors
(4) Diagnostics	(3) Plos One
(3) Scientific Reports	(3) Journal of Big Data
(2) Regional Studies in Marine Scien...	(2) Journal of the Korean Physical So...
(1) Remote Sensing	(1) Electronics
(1) Indonesian Journal of Electrical E...	(1) Applied Sciences
(1) Computers, Materials and Contin...	(1) Ecohydrology & Hydrobiology
(1) Mathematics	(1) Environmental Quality Managem...
(1) Journal of Imaging	(1) Bioengineering
(1) IEEE Journal of Selected Topics in...	(1) Environmental Earth Sciences
(1) Marine Environmental Research	(1) AIMS Mathematics
(1) BMC Medical Research Methodolog...	(1) Computational Economics
(1) ICT Express	(1) Cancers
(1) BioData Mining	(1) Potato Research
(1) Surfaces and Interfaces	

Publications

For manuscripts published from date range February 2021 - February 2026
(57)

Times Cited
(All time)

Visible-light-induced photocatalytic degradation of industrial effluents using biosynthesized cadmium oxide nanoparticles: Synthesis, optimization modeling, and mechanism

0

CatBoost with physics-based metaheuristics for thyroid cancer recurrence prediction	0
Published: Dec 2025 in BioData Mining DOI: 10.1186/S13040-025-00494-1	
Accuracy, precision, recall, f1-score, or MCC? empirical evidence from advanced statistics, ML, and XAI for evaluating business predictive models	1
Published: Dec 2025 in Journal of Big Data DOI: 10.1186/S40537-025-01313-4	
Explainable Deep Ensemble Meta-Learning Framework for Brain Tumor Classification Using MRI Images	2
Published: Aug 2025 in Cancers DOI: 10.3390/CANCERS17172853	
Breast cancer prediction with feature-selected XGB classifier, optimized by metaheuristic algorithms	3
Published: Apr 2025 in Journal of Big Data DOI: 10.1186/S40537-025-01132-7	
Intelligent Decision Making for Commodities Price Prediction: Opportunities, Challenges and Future Avenues	2
Published: 2025 in Computational Economics DOI: 10.1007/S10614-024-10837-5	
Numerical modeling of gain-switched dysprosium-doped yellow fiber lasers (vol 86, pg 595, 2025)	0
Published: 2025 in Journal of the Korean Physical Society DOI: 10.1007/S40042-025-01375-W	
Leveraging Machine Learning to Predict Potato Shelf Life: A Comprehensive Analysis in an Evaporative Cooling Structure	1
Published: 2025 in Potato Research DOI: 10.1007/S11540-025-09928-Z	
Numerical modeling of gain-switched dysprosium-doped yellow fiber lasers	0
Published: 2025 in Journal of the Korean Physical Society DOI: 10.1007/S40042-025-01303-Y	
A graph mining-based approach to analyze the dynamics of the Twitter community of COVID-19 misinformation disseminators	1
Published: Dec 2024 in ICT Express DOI: 10.1016/J.ICTE.2024.10.006	
StackIL10: A stacking ensemble model for the improved prediction of IL-10 inducing peptides	0
Published: Nov 2024 in Plos One DOI: 10.1371/JOURNAL.PONE.0313835	

Cloud IaaS Optimization Using Machine Vision at the IoT Edge and the Grid Sensing Algorithm 3

Published: Nov 2024 in Sensors

DOI: 10.3390/S24216895

An analysis of decipherable red blood cell abnormality detection under federated environment leveraging XAI incorporated deep learning 2

Published: Oct 2024 in Scientific Reports

DOI: 10.1038/S41598-024-76359-0

Deep transfer learning-based bird species classification using mel spectrogram images 0

Published: Aug 2024 in Plos One

DOI: 10.1371/JOURNAL.PONE.0305708

DiabSense: early diagnosis of non-insulin-dependent diabetes mellitus using smartphone-based human activity recognition and diabetic retinopathy analysis with Graph Neural Network 3

Published: Aug 2024 in Journal of Big Data

DOI: 10.1186/S40537-024-00959-W

Feature group partitioning: an approach for depression severity prediction with class balancing using machine learning algorithms 4

Published: Jun 2024 in BMC Medical Research Methodology

DOI: 10.1186/S12874-024-02249-8

Enhancing Early Detection of Diabetic Retinopathy Through the Integration of Deep Learning Models and Explainable Artificial Intelligence 14

Published: May 2024 in IEEE Access

DOI: 10.1109/ACCESS.2024.3405570

Adaptive neighborhood rough set model for hybrid data processing: a case study on Parkinson's disease behavioral analysis 4

Published: Apr 2024 in Scientific Reports

DOI: 10.1038/S41598-024-57547-4

A real-time air-writing model to recognize Bengali characters 2

Published: 2024 in AIMS Mathematics

DOI: 10.3934/MATH.2024325

Medicinal Plant Classification Using Particle Swarm Optimized Cascaded Network 16

Published: 2024 in IEEE Access

DOI: 10.1109/ACCESS.2024.3378262

Few-Shot Lightweight SqueezeNet Architecture for Induction Motor Fault Diagnosis Using Limited Thermal Image Dataset 12

Published: 2024 in IEEE Access

DOI: 10.1109/ACCESS.2024.3385430

Deep Learning Approaches for Image Captioning: Opportunities, Challenges and Future Potential

LCNN: Lightweight CNN Architecture for Software Defect Feature Identification Using Explainable AI 6
Published: 2024 in IEEE Access
DOI: 10.1109/ACCESS.2024.3388489

A Review of Approaches for Rapid Data Clustering: Challenges, Opportunities, and Future Directions 4
Published: 2024 in IEEE Access
DOI: 10.1109/ACCESS.2024.3461798

Hierarchical Attention Module-Based Hotspot Detection in Wafer Fabrication Using Convolutional Neural Network Model 2
Published: 2024 in IEEE Access
DOI: 10.1109/ACCESS.2024.3422616

Incorporating Meteorological Data and Pesticide Information to Forecast Crop Yields Using Machine Learning 18
Published: 2024 in IEEE Access
DOI: 10.1109/ACCESS.2024.3383309

Deep-Learning-Based Semantic Segmentation for Remote Sensing: A Bibliometric Literature Review 8
Published: 2024 in IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing
DOI: 10.1109/JSTARS.2023.3328315

When to Use Standardization and Normalization: Empirical Evidence From Machine Learning Models and XAI 44
Published: 2024 in IEEE Access
DOI: 10.1109/ACCESS.2024.3462434

Exploring factors influencing the severity of pregnancy anemia in India: a study using proportional odds model 3
Published: Dec 2023 in Scientific Reports
DOI: 10.1038/S41598-023-49872-X

Internet of Things in Pregnancy Care Coordination and Management: A Systematic Review 5
Published: Dec 2023 in Sensors
DOI: 10.3390/S23239367

Enhancing Taxonomic Categorization of DNA Sequences with Deep Learning: A Multi-Label Approach 5
Published: Nov 2023 in Bioengineering
DOI: 10.3390/BIOENGINEERING10111293

A Survey on the Role of Industrial IoT in Manufacturing for Implementation of Smart Industry 25

Benign and Malignant Oral Lesion Image Classification Using Fine-Tuned Transfer Learning Techniques	14
Published: Nov 2023 in Diagnostics DOI: 10.3390/DIAGNOSTICS13213360	
Real-Time Obstacle Detection with YOLOv8 in a WSN Using UAV Aerial Photography	25
Published: Oct 2023 in Journal of Imaging DOI: 10.3390/JIMAGING9100216	
Adapted Deep Ensemble Learning-Based Voting Classifier for Osteosarcoma Cancer Classification	3
Published: Oct 2023 in Diagnostics DOI: 10.3390/DIAGNOSTICS13193155	
HGSOXGB: Hunger-Games-Search-Optimization-Based Framework to Predict the Need for ICU Admission for COVID-19 Patients Using eXtreme Gradient Boosting	0
Published: Sep 2023 in Mathematics DOI: 10.3390/MATH11183960	
Nerve Root Compression Analysis to Find Lumbar Spine Stenosis on MRI Using CNN	7
Published: Sep 2023 in Diagnostics DOI: 10.3390/DIAGNOSTICS13182975	
A Bibliometric Analysis on Arrhythmia Detection and Classification from 2005 to 2022	10
Published: May 2023 in Diagnostics DOI: 10.3390/DIAGNOSTICS13101732	
Path loss measurement and modeling of 5G network in emergency indoor stairwell at 3.7 and 28 GHz	4
Published: Mar 2023 in Plos One DOI: 10.1371/JOURNAL.PONE.0282781	
DeepPoly: Deep Learning-Based Polyps Segmentation and Classification for Autonomous Colonoscopy Examination	27
Published: 2023 in IEEE Access DOI: 10.1109/ACCESS.2023.3310541	
Analysis of Centimeter and Millimeter-Wave Path Loss at Emergency Exit	2
Published: 2023 in IEEE Access DOI: 10.1109/ACCESS.2023.3264648	
Artificial Intelligence and Behavioral Economics: A Bibliographic Analysis of Research Field	4
Published: 2023 in IEEE Access DOI: 10.1109/ACCESS.2023.3339778	

Multi-Step Preprocessing With UNet Segmentation and Transfer Learning Model for Pepper Bell Leaf Disease Detection Published: 2023 in IEEE Access DOI: 10.1109/ACCESS.2023.3334428	13
Software Defects Identification: Results Using Machine Learning and Explainable Artificial Intelligence Techniques Published: 2023 in IEEE Access DOI: 10.1109/ACCESS.2023.3329051	10
A Systematic Survey of AI Models in Financial Market Forecasting for Profitability Analysis Published: 2023 in IEEE Access DOI: 10.1109/ACCESS.2023.3330156	17
Wave Propagation Modeling Techniques in Tunnel Environments: A Survey Published: 2023 in IEEE Access DOI: 10.1109/ACCESS.2022.3233877	19
Path Loss Investigation in Hall Environment at Centimeter and Millimeter-Wave Bands Published: Sep 2022 in Sensors DOI: 10.3390/S22176593	4
Android Ransomware Detection From Traffic Analysis Using Metaheuristic Feature Selection Published: 2022 in IEEE Access DOI: 10.1109/ACCESS.2022.3227579	17
Analysis and Modeling of Propagation in Tunnel at 3.7 and 28 GHz Published: 2022 in Computers, Materials and Continua DOI: 10.32604/CMC.2022.023086	9
Results of Large-Scale Propagation Models in Campus Corridor at 3.7 and 28 GHz Published: Nov 2021 in Sensors DOI: 10.3390/S21227747	15
Scaling of Rain Attenuation Models: A Survey Published: Sep 2021 in Applied Sciences DOI: 10.3390/APP11188360	3
Rain Attenuation Scaling in South Korea: Experimental Results and Artificial Neural Network Published: Aug 2021 in Electronics DOI: 10.3390/ELECTRONICS10162030	2
An overview of rain attenuation research in Bangladesh Published: Aug 2021 in Indonesian Journal of Electrical Engineering and Computer Science DOI: 10.11591/IJEECS.V23.I2.PP902-909	<div style="border: 1px solid #ccc; padding: 5px; display: inline-block;">Not indexed in the Web of Science</div>

Wireless Telecommunication Links for Rainfall Monitoring: Deep Learning Approach and Experimental Results

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Published: Apr 2021 in IEEE Access

DOI: 10.1109/ACCESS.2021.3076781

A Survey of Rain Attenuation Prediction Models for Terrestrial Links-Current Research Challenges and State-of-the-Art

23

Published: Feb 2021 in Sensors

DOI: 10.3390/S21041207

Centimeter and Millimeter-Wave Propagation Characteristics for Indoor Corridors: Results From Measurements and Models

5

Published: 2021 in IEEE Access

DOI: 10.1109/ACCESS.2021.3130293

Verified Reviews

Review Summary

