

Ram Avtar

List of Publications by Year in Descending Order

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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.

131 papers	2,050 citations	26 h-index	38 g-index
143 ext. papers	3,126 ext. citations	4.1 avg, IF	5.76 L-index

#	Paper	IF	Citations
131	Integrated Climate Action Planning (ICLAP) in Asia-Pacific Cities: Analytical Modelling for Collaborative Decision Making. <i>Atmosphere</i> , 2022 , 13, 247	2.7	0
130	A Model-Based Approach for Improving Surface Water Quality Management in Aquaculture Using MIKE 11: A Case of the Long Xuyen Quadangle, Mekong Delta, Vietnam. <i>Water (Switzerland)</i> , 2022 , 14, 412	3	3
129	Assessing the Influence of Land Use/Land Cover Alteration on Climate Variability: An Analysis in the Aurangabad District of Maharashtra State, India. <i>Sustainability</i> , 2022 , 14, 642	3.6	1
128	Technological solutions for long-term storage of partially used nuclear waste: A critical review. <i>Annals of Nuclear Energy</i> , 2022 , 166, 108736	1.7	12
127	Transformation of Solid Waste Management in China: Moving towards Sustainability through Digitalization-Based Circular Economy. <i>Sustainability</i> , 2022 , 14, 2374	3.6	12
126	Assessing the Impacts of Dike Systems on Water Quality in Natural Reserves of the Vietnamese Mekong Delta. <i>Urban Science</i> , 2022 , 6, 21	2.2	
125	Modelling Arctic coastal plain lake depths using machine learning and Google Earth Engine. <i>Physics and Chemistry of the Earth</i> , 2022 , 103138	3	0
124	Monitoring Metropolitan Growth Dynamics for Achieving Sustainable Urbanization (SDG 11.3) in Kolkata Metropolitan Area, India. <i>Remote Sensing</i> , 2021 , 13, 4423	5	4
123	Tropical peat subsidence rates are related to decadal LULC changes: Insights from InSAR analysis. <i>Science of the Total Environment</i> , 2021 , 816, 151561	10.2	2
122	Migrating rivers, consequent paleochannels: The unlikely partners and hotspots of flooding. <i>Science of the Total Environment</i> , 2021 , 807, 150842	10.2	4
121	Does building development in Dhaka comply with land use zoning? An analysis using nighttime light and digital building heights. <i>Sustainability Science</i> , 2021 , 16, 1323-1340	6.4	3
120	Recovering heavy metals from electroplating wastewater and their conversion into ZnCr-layered double hydroxide (LDH) for pyrophosphate removal from industrial wastewater. <i>Chemosphere</i> , 2021 , 271, 129861	8.4	25
119	Arsenic removal in aqueous solutions using FeS. <i>Journal of Environmental Management</i> , 2021 , 286, 1122469	4.69	13
118	A societal transition of MSW management in Xiamen (China) toward a circular economy through integrated waste recycling and technological digitization. <i>Environmental Pollution</i> , 2021 , 277, 116741	9.3	28
117	Geochemical modeling to infer genetic origin of groundwater and associated health risks in desertic aquifers. <i>Groundwater for Sustainable Development</i> , 2021 , 13, 100569	6	2
116	Nexus between Water Security Framework and Public Health: A Comprehensive Scientific Review. <i>Water (Switzerland)</i> , 2021 , 13, 1365	3	2
115	Scenario-Based Hydrological Modeling for Designing Climate-Resilient Coastal Water Resource Management Measures: Lessons from Brahmani River, Odisha, Eastern India. <i>Sustainability</i> , 2021 , 13, 6339	3.6	4

114	Integrating land use/land cover change with change in functional zones boundary of the East Dongting Lake National Nature Reserve, China. <i>Physics and Chemistry of the Earth</i> , 2021 , 103041	3	2
113	Resource recovery toward sustainability through nutrient removal from landfill leachate. <i>Journal of Environmental Management</i> , 2021 , 287, 112265	7.9	17
112	MODIS NDVI Multi-Temporal Analysis Confirms Farmer Perceptions on Seasonality Variations Affecting Apple Orchards in Kinnaur, Himachal Pradesh. <i>Agriculture (Switzerland)</i> , 2021 , 11, 724	3	1
111	Applicability of TiO(B) nanosheets@hydrochar composites for adsorption of tetracycline (TC) from contaminated water. <i>Journal of Hazardous Materials</i> , 2021 , 405, 123999	12.8	20
110	Reforming MSWM in Sukunan (Yogyakarta, Indonesia): A case-study of applying a zero-waste approach based on circular economy paradigm. <i>Journal of Cleaner Production</i> , 2021 , 284, 124775	10.3	20
109	Impact of COVID-19 Lockdown on the Fisheries Sector: A Case Study from Three Harbors in Western India. <i>Remote Sensing</i> , 2021 , 13, 183	5	17
108	Remote Sensing for International Peace and Security: Its Role and Implications. <i>Remote Sensing</i> , 2021 , 13, 439	5	4
107	Spatio-Temporal Analysis of Surface Water Quality in Mokopane Area, Limpopo, South Africa. <i>Water (Switzerland)</i> , 2021 , 13, 220	3	8
106	Quantifying the Northward Spread of Ticks (Ixodida) as Climate Warms in Northern Russia. <i>Atmosphere</i> , 2021 , 12, 233	2.7	3
105	Induction of Apoptosis and Regulation of MicroRNA Expression by (2,6)-2,6--(4-hydroxy-3-methoxybenzylidene)-cyclohexanone (BHMC) Treatment on MCF-7 Breast Cancer Cells. <i>Molecules</i> , 2021 , 26,	4.8	1
104	Assessing flood-induced ecological vulnerability and risk using GIS-based in situ measurements in Bhagirathi sub-basin, India. <i>Arabian Journal of Geosciences</i> , 2021 , 14, 1	1.8	5
103	Resource recovery from landfill leachate: An experimental investigation and perspectives. <i>Chemosphere</i> , 2021 , 274, 129986	8.4	17
102	Scenario-based numerical simulation to predict future water quality for developing robust water management plan: a case study from the Hau River, Vietnam. <i>Mitigation and Adaptation Strategies for Global Change</i> , 2021 , 26, 1	3.9	1
101	Spatiotemporal variations in groundwater levels and the impact on land subsidence in CanTho, Vietnam. <i>Groundwater for Sustainable Development</i> , 2021 , 100680	6	1
100	Use of multifrequency (C-band and L-band) SAR data to monitor peat subsidence based on time-series SBAS InSAR technique. <i>Land Degradation and Development</i> , 2021 , 32, 4779	4.4	4
99	Digitalization to achieve sustainable development goals: Steps towards a Smart Green Planet. <i>Science of the Total Environment</i> , 2021 , 794, 148539	10.2	58
98	Basin-wide flood depth and exposure mapping from SAR images and machine learning models. <i>Journal of Environmental Management</i> , 2021 , 297, 113367	7.9	4
97	Spatial distribution of inter- and intra-crop variability using time-weighted dynamic time warping analysis from Sentinel-1 datasets. <i>Remote Sensing Applications: Society and Environment</i> , 2021 , 24, 100630	2.8	1

96	Did the COVID-19 Lockdown-Induced Hydrological Residence Time Intensify the Primary Productivity in Lakes? Observational Results Based on Satellite Remote Sensing. <i>Water (Switzerland)</i> , 2020 , 12, 2573	3	9
95	Google Earth Engine for the Detection of Soiling on Photovoltaic Solar Panels in Arid Environments. <i>Remote Sensing</i> , 2020 , 12, 1466	5	8
94	Machine learning methods for landslide susceptibility studies: A comparative overview of algorithm performance. <i>Earth-Science Reviews</i> , 2020 , 207, 103225	10.2	162
93	An Analysis of Urban Land Use/Land Cover Changes in Blantyre City, Southern Malawi (1994–2018). <i>Sustainability</i> , 2020 , 12, 2377	3.6	11
92	Functionalizing TiO with graphene oxide for enhancing photocatalytic degradation of methylene blue (MB) in contaminated wastewater. <i>Journal of Environmental Management</i> , 2020 , 270, 110871	7.9	60
91	Fabrication, characterization, and application of ternary magnetic recyclable BiWO/BiOI@FeO composite for photodegradation of tetracycline in aqueous solutions. <i>Journal of Environmental Management</i> , 2020 , 270, 110839	7.9	25
90	Impact of Rice Intensification and Urbanization on Surface Water Quality in An Giang Using a Statistical Approach. <i>Water (Switzerland)</i> , 2020 , 12, 1710	3	10
89	Different sampling strategies for predicting landslide susceptibilities are deemed less consequential with deep learning. <i>Science of the Total Environment</i> , 2020 , 720, 137320	10.2	75
88	Synthesis of L-Band SAR and Forest Heights Derived from TanDEM-X DEM and 3 Digital Terrain Models for Biomass Mapping. <i>Remote Sensing</i> , 2020 , 12, 349	5	2
87	Multi-temporal remote sensing data to monitor terrestrial ecosystem responses to climate variations in Ghana. <i>Geocarto International</i> , 2020 , 1-17	2.7	3
86	Participatory Approach for More Robust Water Resource Management: Case Study of the Santa Rosa Sub-Watershed of the Philippines. <i>Water (Switzerland)</i> , 2020 , 12, 1172	3	8
85	Applications of UAVs in Plantation Health and Area Management in Malaysia 2020 , 85-100		
84	Unmanned Aerial Vehicle System (UAVS) Applications in Forestry and Plantation Operations: Experiences in Sabah and Sarawak, Malaysian Borneo 2020 , 101-118		1
83	2D Graphene oxide (GO) doped p-n type BiOI/BiWO as a novel composite for photodegradation of bisphenol A (BPA) in aqueous solutions under UV-vis irradiation. <i>Materials Science and Engineering C</i> , 2020 , 108, 110420	8.3	32
82	Exploring climate variability and its impact on drought occurrence: Evidence from Godavari Middle sub-basin, India. <i>Weather and Climate Extremes</i> , 2020 , 30, 100277	6	13
81	Assessing sustainable development prospects through remote sensing: A review. <i>Remote Sensing Applications: Society and Environment</i> , 2020 , 20, 100402	2.8	12
80	Assessing the Influence of UAV Altitude on Extracted Biophysical Parameters of Young Oil Palm. <i>Remote Sensing</i> , 2020 , 12, 3030	5	7
79	Advanced Rainfall Trend Analysis of 117 Years over West Coast Plain and Hill Agro-Climatic Region of India. <i>Atmosphere</i> , 2020 , 11, 1225	2.7	9

78	Socio-hydrology: A key approach for adaptation to water scarcity and achieving human well-being in large riverine islands. <i>Progress in Disaster Science</i> , 2020 , 8, 100134	7.8	17
77	Assessment of forest carbon stocks for REDD+ implementation in the muyong forest system of Ifugao, Philippines. <i>Environmental Monitoring and Assessment</i> , 2020 , 192, 571	3.1	
76	Impact of Indo-Pacific Climate Variability on High Streamflow Events in Mahanadi River Basin, India. <i>Water (Switzerland)</i> , 2020 , 12, 1952	3	10
75	Impact of Indo-Pacific Climate Variability on Rice Productivity in Bihar, India. <i>Sustainability</i> , 2020 , 12, 7023	3.6	1
74	Mapping Brick Kilns to Support Environmental Impact Studies around Delhi Using Sentinel-2. <i>ISPRS International Journal of Geo-Information</i> , 2020 , 9, 544	2.9	6
73	Land Cover Influences on LST in Two Proposed Smart Cities of India: Comparative Analysis Using Spectral Indices. <i>Land</i> , 2020 , 9, 292	3.5	13
72	Monitoring Effect of Spatial Growth on Land Surface Temperature in Dhaka. <i>Remote Sensing</i> , 2020 , 12, 1191	5	15
71	PopulationUrbanizationEnergy Nexus: A Review. <i>Resources</i> , 2019 , 8, 136	3.7	75
70	Exploring Renewable Energy Resources Using Remote Sensing and GIS: A Review. <i>Resources</i> , 2019 , 8, 149	3.7	31
69	Establishment of detailed loss functions for the urban flood risk assessment in Chao Phraya River basin, Thailand. <i>Geomatics, Natural Hazards and Risk</i> , 2019 , 10, 633-650	3.6	11
68	Effects of Multi-Dike Protection Systems on Surface Water Quality in the Vietnamese Mekong Delta. <i>Water (Switzerland)</i> , 2019 , 11, 1010	3	14
67	Improved Bathymetric Mapping of Coastal and Lake Environments Using Sentinel-2 and Landsat-8 Images. <i>Sensors</i> , 2019 , 19,	3.8	34
66	Sustainability assessment of the groundwater quality in the Western India to achieve urban water security. <i>Applied Water Science</i> , 2019 , 9, 1	5	15
65	Monitoring and Mapping of Rice Cropping Pattern in Flooding Area in the Vietnamese Mekong Delta Using Sentinel-1A Data: A Case of An Giang Province. <i>ISPRS International Journal of Geo-Information</i> , 2019 , 8, 211	2.9	41
64	Groundwater Quality Assessment Using Fuzzy-AHP in An Giang Province of Vietnam. <i>Geosciences (Switzerland)</i> , 2019 , 9, 330	2.7	21
63	Assessment of EnergyPopulationUrbanization Nexus with Changing Energy Industry Scenario in India. <i>Land</i> , 2019 , 8, 124	3.5	14
62	Urban Green Spaces and Their Need in Cities of Rapidly Urbanizing India: A Review. <i>Urban Science</i> , 2019 , 3, 94	2.2	34
61	Impact of Climate Variability on Crop Yield in Kalahandi, Bolangir, and Koraput Districts of Odisha, India. <i>Climate</i> , 2019 , 7, 126	3.1	6

60	Hydrogeochemical Assessment of Groundwater Quality of Mokopane Area, Limpopo, South Africa Using Statistical Approach. <i>Water (Switzerland)</i> , 2019 , 11, 1891	3	12
59	Utilizing geospatial information to implement SDGs and monitor their Progress. <i>Environmental Monitoring and Assessment</i> , 2019 , 192, 35	3.1	28
58	Village Level Provisioning Ecosystem Services and Their Values to Local Communities in the Peri-Urban Areas of Manila, The Philippines. <i>Land</i> , 2019 , 8, 177	3.5	6
57	Monitoring changes in land use and distribution of mangroves in the southeastern part of the Mekong River Delta, Vietnam. <i>Tropical Ecology</i> , 2019 , 60, 552-565	1.3	18
56	Hydrological Simulation for Predicting the Future Water Quality of Adyar River, Chennai, India. <i>International Journal of Environmental Research and Public Health</i> , 2019 , 16,	4.6	2
55	REDD+ Implementation in Community-Based Muyong Forest Management in Ifugao, Philippines. <i>Land</i> , 2019 , 8, 164	3.5	5
54	Comparative analyses of flood damage models in three Asian countries: towards a regional flood risk modelling. <i>Environment Systems and Decisions</i> , 2019 , 39, 229-246	4.1	7
53	Methodology to Assess Potential Flood Damages in Urban Areas under the Influence of Climate Change. <i>Natural Hazards Review</i> , 2018 , 19, 05018001	3.5	26
52	Sensitivity of flood damage estimation to spatial resolution. <i>Journal of Flood Risk Management</i> , 2018 , 11, S370-S381	3.1	12
51	Estimation of winter wheat crop growth parameters using time series Sentinel-1A SAR data. <i>Geocarto International</i> , 2018 , 33, 942-956	2.7	35
50	Use of Water Balance and Tracer-Based Approaches to Monitor Groundwater Recharge in the Hyper-Arid Gobi Desert of Northwestern China. <i>Environments - MDPI</i> , 2018 , 5, 55	3.2	5
49	Land Transition and Intensity Analysis of Cropland Expansion in Northern Ghana. <i>Environmental Management</i> , 2018 , 62, 892-905	3.1	13
48	Removal of acetaminophen from synthetic wastewater in a fixed-bed column adsorption using low-cost coconut shell waste pretreated with NaOH, HNO ₃ , ozone, and/or chitosan. <i>Journal of Environmental Management</i> , 2018 , 226, 365-376	7.9	53
47	Integrating ALOS-PALSAR and ground based observations for forest biomass estimation for REDD+ in Cambodia. <i>APN Science Bulletin</i> , 2018 , 8,	1.3	1
46	Development of generalized loss functions for rapid estimation of flood damages: a case study in Kelani River basin, Sri Lanka. <i>Applied Geomatics</i> , 2018 , 10, 13-30	2.2	7
45	Comparison of Digital Building Height Models Extracted from AW3D, TanDEM-X, ASTER, and SRTM Digital Surface Models over Yangon City. <i>Remote Sensing</i> , 2018 , 10, 2008	5	22
44	Quantitative Analysis of Transient Intertidal Submarine Groundwater Discharge in Coastal Aquifer of Western Japan. <i>Proceedings of the National Academy of Sciences India Section A - Physical Sciences</i> , 2017 , 87, 423-432	0.9	3
43	Batch technique to evaluate the efficiency of different natural adsorbents for defluoridation from groundwater. <i>Applied Water Science</i> , 2017 , 7, 2597-2606	5	7

42	Adapting Water Resources Planning to a Changing Climate: Towards a Shift from Option Robustness to Process Robustness for Stakeholder Involvement and Social Learning. <i>Journal of Climate Change</i> , 2017 , 3, 81-94	0.7	1
41	Potential application of remote sensing in monitoring ecosystem services of forests, mangroves and urban areas. <i>Geocarto International</i> , 2017 , 32, 874-885	2.7	33
40	Mathematics in Utilizing Remote Sensing Data for Investigating and Modelling Environmental Problems. <i>Mathematical Problems in Engineering</i> , 2017 , 2017, 1-3	1.1	
39	Impact of Rapid Urbanization and Climate Change on Agricultural Productivity in Africa 2017 , 1121-1132		
38	Mathematical Modeling of Exudative Retinal Detachment. <i>Applied Mathematics</i> , 2017 , 08, 44-56	0.4	
37	Identification and evaluation of Indian mustard genotypes for white rust resistance and agronomic performance. <i>Indian Journal of Genetics and Plant Breeding</i> , 2017 , 78, 81	1.7	3
36	Agricultural water policy reforms in China: a representative look at Zhangye City, Gansu Province, China. <i>Environmental Monitoring and Assessment</i> , 2017 , 190, 9	3.1	9
35	Hydrogeochemical Evolution and Appraisal of Groundwater Quality in Panna District, Central India. <i>Exposure and Health</i> , 2016 , 8, 19-30	8.8	18
34	Delhi's land cover change in post transit era. <i>Cities</i> , 2016 , 50, 111-118	5.6	26
33	Uncertainties in Tidally Adjusted Estimates of Sea Level Rise Flooding (Bathtub Model) for the Greater London. <i>Remote Sensing</i> , 2016 , 8, 366	5	19
32	Mapping of groundwater potential zones in Killinochi area, Sri Lanka, using GIS and remote sensing techniques. <i>Sustainable Water Resources Management</i> , 2016 , 2, 419-430	1.9	58
31	Shoreline and Coastal Morphological Changes Induced by the 2004 Indian Ocean Tsunami in the Katchal Island, Andaman and Nicobar [A Study Using Archived Satellite Images. <i>Coastal Research Library</i> , 2016 , 65-77	0.4	3
30	Characterization and evaluation of hydrological processes responsible for spatiotemporal variation of surface water quality at Narmada estuarine region in Gujarat, India. <i>Applied Water Science</i> , 2015 , 5, 261-270	5	4
29	Payment of Ecosystem Service to Alleviate Poverty from Kyrgyz Republic in Central Asia Considering Climate Change and Extreme Weather Condition. <i>Journal of Climate Change</i> , 2015 , 1, 119-128	0.7	3
28	Examining the Ecology of Commodity Trade Networks Using an Ecological Information-Based Approach: Toward Strategic Assessment of Resilience. <i>Journal of Industrial Ecology</i> , 2015 , 19, 805-813	7.2	3
27	Evaluation of DEM generation based on Interferometric SAR using TanDEM-X data in Tokyo. <i>Physics and Chemistry of the Earth</i> , 2015 , 83-84, 166-177	3	29
26	Geophysical approach to delineate arsenic hot spots in the alluvial aquifers of Bhagalpur district, Bihar (India) in the central Gangetic plains. <i>Applied Water Science</i> , 2014 , 4, 89-97	5	2
25	Natural forest biomass estimation based on plantation information using PALSAR data. <i>PLoS ONE</i> , 2014 , 9, e86121	3.7	30

24	Application of remote sensing techniques toward the role of traditional water bodies with respect to vegetation conditions. <i>Environment, Development and Sustainability</i> , 2014 , 16, 995-1011	4.5	19
23	Geochemical processes regulating groundwater chemistry with special reference to nitrate and fluoride enrichment in Chhatarpur area, Madhya Pradesh, India. <i>Environmental Earth Sciences</i> , 2013 , 70, 1699-1708	2.9	41
22	Hydrogeochemical Assessment of Groundwater Quality of Bundelkhand, India Using Statistical Approach. <i>Water Quality, Exposure, and Health</i> , 2013 , 5, 105-115		32
21	Use of DEM data to monitor height changes due to deforestation. <i>Arabian Journal of Geosciences</i> , 2013 , 6, 4859-4871	1.8	12
20	Role of remote sensing and community forestry to manage forests for the effective implementation of REDD+ mechanism: a case study on Cambodia. <i>Environment, Development and Sustainability</i> , 2013 , 15, 1593-1603	4.5	7
19	Monitoring of biophysical parameters of cashew plants in Cambodia using ALOS/PALSAR data. <i>Environmental Monitoring and Assessment</i> , 2013 , 185, 2023-37	3.1	15
18	Full polarimetric PALSAR-based land cover monitoring in Cambodia for implementation of REDD policies. <i>International Journal of Digital Earth</i> , 2013 , 6, 255-275	3.9	28
17	Efficiency of multi-frequency, multi-polarized SAR data to monitor growth stages of oilpalm plants in Sarawak, Malaysia 2013 ,		2
16	PALSAR 50 m mosaic data based national level biomass estimation in Cambodia for implementation of REDD+ mechanism. <i>PLoS ONE</i> , 2013 , 8, e74807	3.7	35
15	Evaluation of modified four-component scattering power decomposition method over highly rugged glaciated terrain. <i>Geocarto International</i> , 2012 , 27, 139-151	2.7	5
14	Characterization of forests and deforestation in Cambodia using ALOS/PALSAR observation. <i>Geocarto International</i> , 2012 , 27, 119-137	2.7	20
13	Use of DEMs data to estimate height changes due to Deforestation 2012 ,		1
12	Geospatial Technique to Study Forest Cover Using ALOS/PALSAR Data 2011 , 139-151		
11	Identification of erosional and inundation hazard zones in Ken-Betwa river linking area, India, using remote sensing and GIS. <i>Environmental Monitoring and Assessment</i> , 2011 , 182, 341-60	3.1	15
10	Application of GWQI to Assess Effect of Land Use Change on Groundwater Quality in Lower Shiwaliks of Punjab: Remote Sensing and GIS Based Approach. <i>Water Resources Management</i> , 2011 , 25, 1881-1898	3.7	58
9	Landslide susceptibility zonation study using remote sensing and GIS technology in the Ken-Betwa River Link area, India. <i>Bulletin of Engineering Geology and the Environment</i> , 2011 , 70, 595-606	4	25
8	A Comparative Study on Hydrogeochemistry of Ken and Betwa Rivers of Bundelkhand Using Statistical Approach. <i>Water Quality, Exposure, and Health</i> , 2011 , 2, 169-179		12
7	Multivariate Statistical Approach to Deduce Hydrogeochemical Processes in the Groundwater Environment of Begusarai District, Bihar. <i>Water Quality, Exposure, and Health</i> , 2011 , 3, 119-126		4

6	Identification and analysis of groundwater potential zones in KenBetwa river linking area using remote sensing and geographic information system. <i>Geocarto International</i> , 2010 , 25, 379-396	2.7	44
5	Effect of Process Parameters on the Structure and Properties of Galvanized Sheets. <i>Journal of Materials Engineering and Performance</i> , 2010 , 19, 650-655	1.6	5
4	Spatial-Temporal Monitoring of Groundwater Using Multivariate Statistical Techniques in Bareilly District of Uttar Pradesh, India. <i>Journal of Hydrology and Hydromechanics</i> , 2009 , 57,	2.1	50
3	Monitoring change in land use and land cover in Rupnagar district of Punjab, India using Landsat and IRS LISS III satellite data. <i>Ecological Questions</i> , 13, 73	1.4	7
2	Impacts of changes in mangrove ecosystems in the Ba and Rewa deltas, Fiji using multi-temporal Landsat data and social survey. <i>Coastal Engineering Journal</i> , 1-22	2.8	3
1	Treatment of whitewater from pulp and paper industry using membrane filtrations. <i>Chemical Papers</i> ,	1.9	3