Alvin Lal

List of Publications by Year
in descending order

15 papers	**250** citations	1163117 **8** h-index	1199594 **12** g-index
15 all docs	**15** docs citations	**15** times ranked	**241** citing authors

#	Article	IF	Citations
1	Development and Implementation of Support Vector Machine Regression Surrogate Models for Predicting Groundwater Pumping-Induced Saltwater Intrusion into Coastal Aquifers. Water Resources Management, 2018, 32, 2405-2419.	3.9	48
2	Multi-objective groundwater management strategy under uncertainties for sustainable control of saltwater intrusion: Solution for an island country in the South Pacific. Journal of Environmental Management, 2019, 234, 115-130.	7.8	42
3	Optimization algorithms as training approaches for prediction of reference evapotranspiration using adaptive neuro fuzzy inference system. Agricultural Water Management, 2021, 255, 107003.	5.6	37
4	Modelling saltwater intrusion processes and development of a multi-objective strategy for management of coastal aquifers utilizing planned artificial freshwater recharge. Modeling Earth Systems and Environment, 2018, 4, 111-126.	3.4	28
5	Performance Evaluation of Homogeneous and Heterogeneous Ensemble Models for Groundwater Salinity Predictions: a Regional-Scale Comparison Study. Water, Air, and Soil Pollution, 2020, 231, 1.	2.4	19
6	A review of groundwater sustainability crisis in the Pacific Island countries: Challenges and solutions. Journal of Hydrology, 2021, 603, 127165.	5.4	18
7	Optimal Groundwater-Use Strategy for Saltwater Intrusion Management in a Pacific Island Country. Journal of Water Resources Planning and Management - ASCE, 2019, 145, .	2.6	16
8	MULTIPLE OBJECTIVE MANAGEMENT STRATEGIES FOR COASTAL AQUIFERS UTILIZING NEW SURROGATE MODELS. International Journal of GEOMATE, 2018, 15, .	0.3	10
9	Genetic Programming and Gaussian Process Regression Models for Groundwater Salinity Prediction: Machine Learning for Sustainable Water Resources Management. , 2018, , .		8
10	Application of Monitoring Network Design and Feedback Information for Adaptive Management of Coastal Groundwater Resources. International Journal of Environmental Research and Public Health, 2019, 16, 4365.	2.6	8
11	Optimal pumping strategies for the management of coastal groundwater resources: application of Gaussian Process Regression metamodel-based simulation-optimization methodology. ISH Journal of Hydraulic Engineering, 2019, , 1-10.	2.1	6
12	Application of the group method of data handling and variable importance analysis for prediction and modelling of saltwater intrusion processes in coastal aquifers. Neural Computing and Applications, 2021, 33, 4179-4190.	5.6	6
13	Near-surface study of a hot spring site in Fiji. Acta Geophysica, 2018, 66, 659-672.	2.0	2
14	Robust Ensemble Modeling Paradigm for Groundwater Salinity Predictions in Complex Aquifer Systems. , 2021, , 53-72.		1
15	Self-potential and soil temperature profiling: Case study of Tavua hot spring, Fiji. , 2015, , .		1