

Hwee-San Lim

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4710757/publications.pdf>

Version: 2024-02-01

110
papers

1,218
citations

430874

18
h-index

414414

32
g-index

110
all docs

110
docs citations

110
times ranked

1710
citing authors

#	ARTICLE	IF	CITATIONS
1	Landsat data to evaluate urban expansion and determine land use/land cover changes in Penang Island, Malaysia. <i>Environmental Earth Sciences</i> , 2010, 60, 1509-1521.	2.7	150
2	Regional prediction of groundwater potential mapping in a multifaceted geology terrain using GIS-based Dempster-Shafer model. <i>Arabian Journal of Geosciences</i> , 2015, 8, 3235-3258.	1.3	125
3	Application of GIS-Based Evidential Belief Function Model to Regional Groundwater Recharge Potential Zones Mapping in Hardrock Geologic Terrain. <i>Environmental Processes</i> , 2016, 3, 93-123.	3.5	74
4	An overview of mesoscale aerosol processes, comparisons, and validation studies from DRAGON networks. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 655-671.	4.9	72
5	Monsoon Season Quantitative Assessment of Biomass Burning Clear-Sky Aerosol Radiative Effect at Surface by Ground-Based Lidar Observations in Pulau Pinang, Malaysia in 2014. <i>Remote Sensing</i> , 2019, 11, 2660.	4.0	44
6	A comparison of radiometric correction techniques in the evaluation of the relationship between LST and NDVI in Landsat imagery. <i>Environmental Monitoring and Assessment</i> , 2012, 184, 3813-3829.	2.7	43
7	Prediction of column ozone concentrations using multiple regression analysis and principal component analysis techniques: A case study in peninsular Malaysia. <i>Atmospheric Pollution Research</i> , 2016, 7, 533-546.	3.8	42
8	AERONET Remotely Sensed Measurements and Retrievals of Biomass Burning Aerosol Optical Properties During the 2015 Indonesian Burning Season. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 4722-4740.	3.3	40
9	Combining multiple regression and principal component analysis for accurate predictions for column ozone in Peninsular Malaysia. <i>Atmospheric Environment</i> , 2013, 71, 36-43.	4.1	38
10	New development of optical fibre sensor for determination of nitrate and nitrite in water. <i>Optik</i> , 2016, 127, 1312-1319.	2.9	37
11	Modeling of groundwater recharge using a multiple linear regression (MLR) recharge model developed from geophysical parameters: a case of groundwater resources management. <i>Environmental Earth Sciences</i> , 2015, 73, 1217-1230.	2.7	35
12	Facile fabrication and enhanced properties of copper-based metal organic framework incorporated with graphene for non-enzymatic detection of hydrogen peroxide. <i>Synthetic Metals</i> , 2020, 260, 116272.	3.9	35
13	Overview of atmospheric aerosol studies in Malaysia: Known and unknown. <i>Atmospheric Research</i> , 2016, 182, 302-318.	4.1	31
14	Modeling groundwater vulnerability prediction using geographic information system (GIS)-based ordered weighted average (OWA) method and DRASTIC model theory hybrid approach. <i>Arabian Journal of Geosciences</i> , 2014, 7, 5409-5429.	1.3	29
15	The influence of deposition temperature on the structural, morphological and optical properties of micro-size structures of beta-Ga ₂ O ₃ . <i>Results in Physics</i> , 2019, 14, 102475.	4.1	26
16	AERONET data-based determination of aerosol types. <i>Atmospheric Pollution Research</i> , 2015, 6, 682-695.	3.8	25
17	Foundation integrity assessment using integrated geophysical and geotechnical techniques: case study in crystalline basement complex, southwestern Nigeria. <i>Journal of Geophysics and Engineering</i> , 2017, 14, 675-690.	1.4	23
18	Application of Dempster-Shafer theory of evidence model to geoelectric and hydraulic parameters for groundwater potential zonation. <i>NRIAG Journal of Astronomy and Geophysics</i> , 2018, 7, 134-148.	0.9	20

#	ARTICLE	IF	CITATIONS
19	Development of a GIS-based catastrophe theory model (modified DRASTIC model) for groundwater vulnerability assessment. <i>Earth Science Informatics</i> , 2017, 10, 339-356.	3.2	18
20	Effect of differential forest management on land-use change (LUC) in a tropical hill forest of Malaysia. <i>Journal of Environmental Management</i> , 2017, 200, 468-474.	7.8	15
21	Analysis of total column ozone in Peninsular Malaysia retrieved from SCIAMACHY. <i>Atmospheric Pollution Research</i> , 2014, 5, 42-51.	3.8	14
22	Monsoonal variations in aerosol optical properties and estimation of aerosol optical depth using ground-based meteorological and air quality data in Peninsular Malaysia. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 3755-3771.	4.9	14
23	Application of a GIS-/remote sensing-based approach for predicting groundwater potential zones using a multi-criteria data mining methodology. <i>Environmental Monitoring and Assessment</i> , 2017, 189, 321.	2.7	14
24	All-fiber optical polarization modulation system using MoS ₂ as modulator. <i>Infrared Physics and Technology</i> , 2019, 102, 103002.	2.9	14
25	Groundwater potentiality mapping using geoelectrical-based aquifer hydraulic parameters: A GIS-based multi-criteria decision analysis modeling approach. <i>Terrestrial, Atmospheric and Oceanic Sciences</i> , 2017, 28, 479-500.	0.6	14
26	Modeling groundwater vulnerability to pollution using Optimized DRASTIC model. <i>IOP Conference Series: Earth and Environmental Science</i> , 2014, 20, 012002.	0.3	12
27	Development of groundwater favourability map using GIS-based driven data mining models: an approach for effective groundwater resource management. <i>Geocarto International</i> , 2018, 33, 397-422.	3.5	11
28	Study on solar ultraviolet erythemal dose distribution over Peninsular Malaysia using Ozone Monitoring Instrument. <i>Egyptian Journal of Remote Sensing and Space Science</i> , 2018, 21, 105-110.	2.0	10
29	A GIS-based linear regression modeling approach to assess the impact of geologic rock types on groundwater recharge and its hydrological implication. <i>Modeling Earth Systems and Environment</i> , 2020, 6, 183-199.	3.4	9
30	A Novel Ensemble Machine Learning and Time Series Approach for Oil Palm Yield Prediction Using Landsat Time Series Imagery Based on NDVI. <i>Geocarto International</i> , 0, , 1-24.	3.5	9
31	Comparison of Aerosol optical depth (AOD) derived from AERONET sunphotometer and Lidar system. <i>IOP Conference Series: Earth and Environmental Science</i> , 2014, 20, 012058.	0.3	8
32	Improvement in Photodetection Characteristics of Graphene/p-Silicon Heterojunction Photodetector by PMMA/Graphene Cladding Layer. <i>Journal of Electronic Materials</i> , 2019, 48, 4064-4072.	2.2	8
33	Variability and Trend in Integrated Water Vapour from ERA-Interim and IGRA2 Observations over Peninsular Malaysia. <i>Atmosphere</i> , 2020, 11, 1012.	2.3	8
34	Air Surface Temperature Correlation with Greenhouse Gases by Using Airs Data Over Peninsular Malaysia. <i>Pure and Applied Geophysics</i> , 2014, 171, 1993-2011.	1.9	7
35	Tungsten disulfide-chitosan film as optical pulse and amplitude modulator in C-band region. <i>Laser Physics</i> , 2019, 29, 105102.	1.2	7
36	Regression analysis in modeling of air surface temperature and factors affecting its value in Peninsular Malaysia. <i>Optical Engineering</i> , 2012, 51, 101702.	1.0	6

#	ARTICLE	IF	CITATIONS
37	The effects of orography in indochina on wind, cloud, and rainfall patterns during Typhoon Ketsana (2009). <i>Asia-Pacific Journal of Atmospheric Sciences</i> , 2012, 48, 295-314.	2.3	6
38	Flood Inundation Analysis in Penang Island (Malaysia) Based on InSAR Maps of Land Subsidence and Local Sea Level Scenarios. <i>Water (Switzerland)</i> , 2021, 13, 1518.	2.7	6
39	A Preliminary Geothermal Prospectivity Mapping Based on Integrated GIS, Remote-Sensing, and Geophysical Techniques around Northeastern Nigeria. <i>Sustainability</i> , 2021, 13, 8525.	3.2	6
40	Methane Interannual Distribution over Peninsular Malaysia from Atmospheric Infrared Sounder Data: 2003-2009. <i>Aerosol and Air Quality Research</i> , 2012, 12, 1459-1466.	2.1	6
41	Texture analysis of AIRSAR images for land cover classification. , 2011, , .		5
42	Accuracy assessment of Terra-MODIS aerosol optical depth retrievals. <i>IOP Conference Series: Earth and Environmental Science</i> , 2014, 20, 012059.	0.3	5
43	Multiple regression analysis in modeling of columnar ozone in Peninsular Malaysia. <i>Environmental Science and Pollution Research</i> , 2014, 21, 7567-7577.	5.3	5
44	Multiple regression analysis in modelling of carbon dioxide emissions by energy consumption use in Malaysia. <i>AIP Conference Proceedings</i> , 2015, , .	0.4	5
45	Vertical Profiling of Aerosol Types Observed across Monsoon Seasons with a Raman Lidar in Penang Island, Malaysia. <i>Aerosol and Air Quality Research</i> , 2016, 16, 2843-2854.	2.1	5
46	Monitoring water quality from Landsat TM imagery in Penang, Malaysia. , 2011, , .		4
47	Monthly distribution of diurnal total column ozone based on the 2011 satellite data in Peninsular Malaysia. <i>Egyptian Journal of Remote Sensing and Space Science</i> , 2013, 16, 103-109.	2.0	4
48	Estimation of aerosol optical depth at different wavelengths by multiple regression method. <i>Environmental Science and Pollution Research</i> , 2016, 23, 2735-2748.	5.3	4
49	Quantitative Morphometric Analysis Using Remote Sensing and GIS Techniques for Mandakini River Basin. <i>IOP Conference Series: Earth and Environmental Science</i> , 2020, 540, 012021.	0.3	4
50	Temporal and amplitude modulation at C-band region using Bi2Te3-based optical modulator. <i>Journal of Modern Optics</i> , 2020, 67, 638-646.	1.3	4
51	Effects of Location-Specific Meteorological Factors on COVID-19 Daily Infection in a Tropical Climate: A Case of Kuala Lumpur, Malaysia. <i>Advances in Meteorology</i> , 2021, 2021, 1-10.	1.6	4
52	Land cover/use mapping using multi-band imageries captured by Cropcam Unmanned Aerial Vehicle Autopilot (UAV) over Penang Island, Malaysia. , 2012, , .		3
53	Investigation on the interannual variability of carbon dioxide column-averaged mole fractions in Peninsular Malaysia: 2003-2009. <i>International Journal of Environment and Pollution</i> , 2013, 53, 159.	0.2	3
54	A Two-Band Algorithm for Total Suspended Solid Concentration Mapping Using THEOS Data. <i>Journal of Coastal Research</i> , 2013, 29, 624.	0.3	3

#	ARTICLE	IF	CITATIONS
55	A prediction model for CO2 emission from manufacturing industry and construction in Malaysia. , 2015, , .		3
56	Effect of differential forest management on biodiversity in a tropical hill forest of Malaysia and implications for conservation. Biodiversity and Conservation, 2017, 26, 1569-1586.	2.6	3
57	Growth and Structural Properties of Graphene Oxide Thin Film with Spray Pyrolysis Technique. IOP Conference Series: Materials Science and Engineering, 2018, 409, 012007.	0.6	3
58	AAO-Assisted Synthesis of Aligned CuO Nanorod Arrays by Electrochemical Deposition for Self-powered NIR Photodetection. Journal of Electronic Materials, 2019, 48, 7465-7473.	2.2	3
59	Analysis of ozone observation at atmospheric monitoring network station using Brewer ozone spectrophotometer. , 2017, , .		3
60	Aerial Photogrammetry Method for Water Quality Monitoring Using Digital Camera. Open Environmental Sciences, 2009, 3, 20-25.	0.8	3
61	Remote sensing for mapping surface water quality in coastal area of Aceh, Indonesia: Sedimentation effects of the December 2004 tsunami. , 2011, , .		2
62	Preliminary analysis of ground based lidar backscattered signal and performance evaluation in Penang Island. AIP Conference Proceedings, 2013, , .	0.4	2
63	Satellite Remote Sensing of Total Column Ozone over Peninsular Malaysia. , 2016, , .		2
64	Characteristics of CVD Grown Multi-Layer Graphene under Different Types of Precursors and Their Respective Flow Rate. ECS Journal of Solid State Science and Technology, 2017, 6, M119-M124.	1.8	2
65	Mapping atmospheric pollution using remote sensing. SPIE Newsroom, 2007, , .	0.1	2
66	Development of Regional TSS Algorithm over Penang using Modis Terra (250 M) Surface Reflectance Product. Ekologia, 2016, 35, 289-294.	0.8	2
67	Characteristics of precipitable water over Peninsular Malaysia from satellite and in situ data. Terrestrial, Atmospheric and Oceanic Sciences, 2017, 28, 979-992.	0.6	2
68	Land cover/use classification by using ALOS-PALSAR and ALOS-AVNIR data. , 2011, , .		1
69	Relationship between orography and the wind-cloud systems of tropical cyclones. Optical Engineering, 2012, 51, 101712.	1.0	1
70	The effects of orography on cloud and rainfall patterns during typhoon Ketsana (2009). , 2012, , .		1
71	Total Suspended Sediments Mapping by Using ALOS Imagery Over the Coastal Waters of Langkawi Island, Malaysia. Journal of the Indian Society of Remote Sensing, 2013, 41, 663-673.	2.4	1
72	Aerosol Characterization over Penang, Malaysia Using Aerosol Robotic Network (AERONET). Applied Mechanics and Materials, 0, 661, 81-92.	0.2	1

#	ARTICLE	IF	CITATIONS
73	Discrimination of mangrove species in Matang Mangrove Forest Reserve, Perak using in-situ measurement of hyperspectral leaf reflectance. AIP Conference Proceedings, 2015, , .	0.4	1
74	Investigation of aerosol distribution patterns and its optical properties at different time scale by using LIDAR system and AERONET. AIP Conference Proceedings, 2015, , .	0.4	1
75	Intercomparison of two haze events observed using a ground-based backscatter lidar in Penang Island, Malaysia. AIP Conference Proceedings, 2015, , .	0.4	1
76	Lidar measurements during a haze episode in Penang, Malaysia and validation of the ECMWF MACC-II model. AIP Conference Proceedings, 2015, , .	0.4	1
77	One-year monitoring of the atmosphere over Penang Island using a ground-based lidar. Proceedings of SPIE, 2015, , .	0.8	1
78	A feed-forward Hopfield neural network algorithm (FHNN) with a colour satellite image for water quality mapping. IOP Conference Series: Earth and Environmental Science, 2016, 37, 012075.	0.3	1
79	Parameterization of the middle and upper tropospheric water vapor from ATOVS observations over a tropical climate region. Journal of Atmospheric and Solar-Terrestrial Physics, 2018, 167, 190-199.	1.6	1
80	Fabrication & Characterization of Simple Structure Self-Assembled Graphene Oxide Based Heavy Metal Ion Sensor. IETE Journal of Research, 2019, , 1-10.	2.6	1
81	A statistical model to predict and analyze air surface temperature based on remotely sensed observations. Environmental Science and Pollution Research, 2021, , 1.	5.3	1
82	Algorithm For Air Quality Mapping Using Satellite Images. , 0, , .		1
83	Impacts of post-disaster recovery on land surface temperature after the 2004 earthquake and Indian tsunami: a case study of Banda Aceh, Indonesia. , 2017, , .		1
84	Observed vertical distribution of tropospheric carbon monoxide during 2012 over Iraq. Scientific Review Engineering and Environmental Sciences, 2020, 29, 184-195.	0.5	1
85	Water pollution monitoring using optical sensor based on transmitted light. , 2006, , .		0
86	Multispectral optical sensor based on light scattering for measuring total suspended solids. , 2006, 6201, 268.		0
87	An inexpensive optical sensor for monitoring total suspended particulates in air. , 2009, , .		0
88	Atmospheric Infrared Sounder (AIRS) observation of the carbon monoxide distribution over Malaysia. IOP Conference Series: Earth and Environmental Science, 2009, 6, 412030.	0.3	0
89	A case study of global warming in Penang Island, Malaysia. IOP Conference Series: Earth and Environmental Science, 2009, 6, 412029.	0.3	0
90	Development of speckle interferometry algorithm and system. , 2010, , .		0

#	ARTICLE	IF	CITATIONS
91	The impact of the typhoon to East Malaysia on orographic effect. , 2011, , .		0
92	Detection of nitrate ions in water by optical fiber. , 2012, , .		0
93	Comparison of remote sensing approach for mangrove mapping over Penang Island. , 2012, , .		0
94	Detection of heavy metal ions in aqueous solution using fiber optic sensor. , 2012, , .		0
95	Application of spectrometer cropsan MSR 16R and Landsat imagery for identification the spectral characteristics of land cover. , 2013, , .		0
96	Reflectance interpretation of ALOS AVNIR-2 satellite data for ocean monitoring by means of principal component analysis. AIP Conference Proceedings, 2015, , .	0.4	0
97	Predicting column averaged dry-air mole fractions of carbon dioxide (XCO_2) in Peninsular Malaysia by using GOSAT data. , 2015, , .		0
98	Comparison of Hazy and clear atmospheric conditions in Penang using a ground-based Lidar. , 2015, , .		0
99	Self-phase modulation on a graphene used waveguide. , 2016, , .		0
100	The identification of geothermal with geographic information system and remote sensing in distric of Dolok Marawa. AIP Conference Proceedings, 2016, , .	0.4	0
101	A statistical model to predict total column ozone in Peninsular Malaysia. Frontiers of Earth Science, 2016, 10, 63-73.	2.1	0
102	Investigation of electrochemical-based exfoliation of graphene with the aid of stabilizer. AIP Conference Proceedings, 2017, , .	0.4	0
103	The device application of electrochemical exfoliated graphene. AIP Conference Proceedings, 2017, , .	0.4	0
104	Studies of Electrical Characteristics of Reduced Graphene Oxide using Hybrid Mixture of Green Reducing Agents. ECS Journal of Solid State Science and Technology, 2019, 8, M71-M74.	1.8	0
105	Effect of the Sulfate Concentration on the Graphene Film Produced by Electrochemical Exfoliation. Solid State Phenomena, 0, 290, 127-133.	0.3	0
106	The Effects of Hydrogen Flowrate during Pre-Annealing on Graphene Growth by Chemical Vapor Deposition Using Methanol as a Liquid Carbon Precursor. Solid State Phenomena, 2019, 290, 107-112.	0.3	0
107	Numerical study of the evanescent field coupling effect on two optical fiber sensors. AIP Conference Proceedings, 2019, , .	0.4	0
108	Assessment of yearly lidar ratio values in Penang, Malaysia. Proceedings of SPIE, 2017, , .	0.8	0

#	ARTICLE	IF	CITATIONS
109	Comparison of different discriminant functions for mangrove species analysis in Matang Mangrove Forest Reserve (MMFR), Perak based on statistical approach. , 2017, , .		0
110	Flood Vulnerability, Risk, and Susceptibility Assessment. Advances in Environmental Engineering and Green Technologies Book Series, 2020, , 1-27.	0.4	0