Hwee-San Lim

List of Publications by Year
in descending order

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	Effects of Location-Specific Meteorological Factors on COVID-19 Daily Infection in a Tropical Climate: A Case of Kuala Lumpur, Malaysia. Advances in Meteorology, 2021, 2021, 1-10.	1.6	4
2	Flood Inundation Analysis in Penang Island (Malaysia) Based on InSAR Maps of Land Subsidence and Local Sea Level Scenarios. Water (Switzerland), 2021, 13, 1518.	2.7	6
3	A Preliminary Geothermal Prospectivity Mapping Based on Integrated GIS, Remote-Sensing, and Geophysical Techniques around Northeastern Nigeria. Sustainability, 2021, 13, 8525.	3.2	6
4	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
5	A GIS-based linear regression modeling approach to assess the impact of geologic rock types on groundwater recharge and its hydrological implication. Modeling Earth Systems and Environment, 2020, 6, 183-199.	3.4	9
6	Facile fabrication and enhanced properties of copper-based metal organic framework incorporated with graphene for non-enzymatic detection of hydrogen peroxide. Synthetic Metals, 2020, 260, 116272.	3.9	35
7	Variability and Trend in Integrated Water Vapour from ERA-Interim and IGRA2 Observations over Peninsular Malaysia. Atmosphere, 2020, 11, 1012.	2.3	8
8	Quantitative Morphometric Analysis Using Remote Sensing and GIS Techniques for Mandakini River Basin. IOP Conference Series: Earth and Environmental Science, 2020, 540, 012021.	0.3	4
9	Temporal and amplitude modulation at C-band region using Bi2Te3-based optical modulator. Journal of Modern Optics, 2020, 67, 638-646.	1.3	4
10	Observed vertical distribution of tropospheric carbon monoxide during 2012 over Iraq. Scientific Review Engineering and Environmental Sciences, 2020, 29, 184-195.	0.5	1
11	Flood Vulnerability, Risk, and Susceptibility Assessment. Advances in Environmental Engineering and Green Technologies Book Series, 2020, , 1-27.	0.4	0
12	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
13	Tungsten disulfide-chitosan film as optical pulse and amplitude modulator in C-band region. Laser Physics, 2019, 29, 105102.	1.2	7
14	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
15	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
16	All-fiber optical polarization modulation system using MoS2 as modulator. Infrared Physics and Technology, 2019, 102, 103002.	2.9	14
17	The influence of deposition temperature on the structural, morphological and optical properties of micro-size structures of beta-Ga2O3. Results in Physics, 2019, 14, 102475.	4.1	26
18	Improvement in Photodetection Characteristics of Graphene/p-Silicon Heterojunction Photodetector by PMMA/Graphene Cladding Layer. Journal of Electronic Materials, 2019, 48, 4064-4072.	2.2	8

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19	AERONET Remotely Sensed Measurements and Retrievals of Biomass Burning Aerosol Optical Properties During the 2015 Indonesian Burning Season. Journal of Geophysical Research D: Atmospheres, 2019, 124, 4722-4740.	3.3	40
20	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. Remote Sensing, 2019, 11, 2660.	4.0	44
21	Fabrication & Characterization of Simple Structure Self-Assembled Graphene Oxide Based Heavy Metal Ion Sensor. IETE Journal of Research, 2019, , 1-10.	2.6	1
22	Numerical study of the evanescent field coupling effect on two optical fiber sensors. AIP Conference Proceedings, 2019, , .	0.4	0
23	Application of Dempster-Shafer theory of evidence model to geoelectric and hydraulic parameters for groundwater potential zonation. NRIAG Journal of Astronomy and Geophysics, 2018, 7, 134-148.	0.9	20
24	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
25	An overview of mesoscale aerosol processes, comparisons, and validation studies from DRAGON networks. Atmospheric Chemistry and Physics, 2018, 18, 655-671.	4.9	72
26	Development of groundwater favourability map using GIS-based driven data mining models: an approach for effective groundwater resource management. Geocarto International, 2018, 33, 397-422.	3.5	11
27	Study on solar ultraviolet erythemal dose distribution over Peninsular Malaysia using Ozone Monitoring Instrument. Egyptian Journal of Remote Sensing and Space Science, 2018, 21, 105-110.	2.0	10
28	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
29	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
30	Development of a GIS-based catastrophe theory model (modified DRASTIC model) for groundwater vulnerability assessment. Earth Science Informatics, 2017, 10, 339-356.	3.2	18
31	Foundation integrity assessment using integrated geophysical and geotechnical techniques: case study in crystalline basement complex, southwestern Nigeria. Journal of Geophysics and Engineering, 2017, 14, 675-690.	1.4	23
32	Application of a GIS-/remote sensing-based approach for predicting groundwater potential zones using a multi-criteria data mining methodology. Environmental Monitoring and Assessment, 2017, 189, 321.	2.7	14
33	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
34	Investigation of electrochemical-based exfoliation of graphene with the aid of stabilizer. AIP Conference Proceedings, 2017, , .	0.4	0
35	The device application of electrochemical exfoliated graphene. AIP Conference Proceedings, 2017, , .	0.4	0
36	Effect of differential forest management on land-use change (LUC) in a tropical hill forest of Malaysia. Journal of Environmental Management, 2017, 200, 468-474.	7.8	15

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37	Analysis of ozone observation at atmospheric monitoring network station using Brewer ozone spectrophotometer. , 2017, , .		3
38	Groundwater potentiality mapping using geoelectrical-based aquifer hydraulic parameters: A GIS-based multi-criteria decision analysis modeling approach. Terrestrial, Atmospheric and Oceanic Sciences, 2017, 28, 479-500.	0.6	14
39	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
40	Assessment of yearly lidar ratio values in Penang, Malaysia. Proceedings of SPIE, 2017, , .	0.8	0
41	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
42	Comparison of different discriminant functions for mangrove species analysis in Matang Mangrove Forest Reserve (MMFR), Perak based on statistical approach. , 2017, , .		0
43	A feed-forward Hopfield neural network algorithm (FHNNA) with a colour satellite image for water quality mapping. IOP Conference Series: Earth and Environmental Science, 2016, 37, 012075.	0.3	1
44	Satellite Remote Sensing of Total Column Ozone over Peninsular Malaysia. , 2016, , .		2
45	Self-phase modulation on a graphene used waveguide. , 2016, , .		0
46	Overview of atmospheric aerosol studies in Malaysia: Known and unknown. Atmospheric Research, 2016, 182, 302-318.	4.1	31
47	The identification of geothermal with geographic information system and remote sensing in distric of Dolok Marawa. AIP Conference Proceedings, 2016, , .	0.4	0
48	A statistical model to predict total column ozone in Peninsular Malaysia. Frontiers of Earth Science, 2016, 10, 63-73.	2.1	0
49	Prediction of column ozone concentrations using multiple regression analysis and principal component analysis techniques: A case study in peninsular Malaysia. Atmospheric Pollution Research, 2016, 7, 533-546.	3.8	42
50	Application of GIS-Based Evidential Belief Function Model to Regional Groundwater Recharge Potential Zones Mapping in Hardrock Geologic Terrain. Environmental Processes, 2016, 3, 93-123.	3.5	74
51	New development of optical fibre sensor for determination of nitrate and nitrite in water. Optik, 2016, 127, 1312-1319.	2.9	37
52	Estimation of aerosol optical depth at different wavelengths by multiple regression method. Environmental Science and Pollution Research, 2016, 23, 2735-2748.	5.3	4
53	Development of Regional TSS Algorithm over Penang using Modis Terra (250 M) Surface Reflectance Product. Ekologia, 2016, 35, 289-294.	0.8	2
54	Vertical Profiling of Aerosol Types Observed across Monsoon Seasons with a Raman Lidar in Penang Island, Malaysia. Aerosol and Air Quality Research, 2016, 16, 2843-2854.	2.1	5

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55	Multiple regression analysis in modelling of carbon dioxide emissions by energy consumption use in Malaysia. AIP Conference Proceedings, 2015, , .	0.4	5
56	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
57	AERONET data–based determination of aerosol types. Atmospheric Pollution Research, 2015, 6, 682-695.	3.8	25
58	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
59	Intercomparison of two haze events observed using a ground-based backscatter lidar in Penang Island, Malaysia. AIP Conference Proceedings, 2015, , .	0.4	1
60	Reflectance interpretation of ALOS AVNIR-2 satellite data for ocean monitoring by means of principal component analysis. AIP Conference Proceedings, 2015, , .	0.4	0
61	Monsoonal variations in aerosol optical properties and estimation of aerosol optical depth using ground-based meteorological and air quality data in Peninsular Malaysia. Atmospheric Chemistry and Physics, 2015, 15, 3755-3771.	4.9	14
62	Lidar measurements during a haze episode in Penang, Malaysia and validation of the ECMWF MACC-II model. AIP Conference Proceedings, 2015, , .	0.4	1
63	Predicting column averaged dry-air mole fractions of carbon dioxide (XCO_2) in Peninsular Malaysia by using GOSAT data. , 2015, , .		0
64	A prediction model for CO2 emission from manufacturing industry and construction in Malaysia. , 2015, , .		3
65	One-year monitoring of the atmosphere over Penang Island using a ground-based lidar. Proceedings of SPIE, 2015, , .	0.8	1
66	Comparison of Hazy and clear atmospheric conditions in Penang using a ground-based Lidar. , 2015, , .		0
67	Modeling of groundwater recharge using a multiple linear regression (MLR) recharge model developed from geophysical parameters: a case of groundwater resources management. Environmental Earth Sciences, 2015, 73, 1217-1230.	2.7	35
68	Regional prediction of groundwater potential mapping in a multifaceted geology terrain using GIS-based Dempster–Shafer model. Arabian Journal of Geosciences, 2015, 8, 3235-3258.	1.3	125
69	Accuracy assessment of Terra-MODIS aerosol optical depth retrievals. IOP Conference Series: Earth and Environmental Science, 2014, 20, 012059.	0.3	5
70	Comparison of Aerosol optical depth (AOD) derived from AERONET sunphotometer and Lidar system. IOP Conference Series: Earth and Environmental Science, 2014, 20, 012058.	0.3	8
71	Modeling groundwater vulnerability prediction using geographic information system (GIS)-based ordered weighted average (OWA) method and DRASTIC model theory hybrid approach. Arabian Journal of Geosciences, 2014, 7, 5409-5429.	1.3	29
72	Air Surface Temperature Correlation with Greenhouse Gases by Using Airs Data Over Peninsular Malaysia. Pure and Applied Geophysics, 2014, 171, 1993-2011.	1.9	7

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73	Multiple regression analysis in modeling of columnar ozone in Peninsular Malaysia. Environmental Science and Pollution Research, 2014, 21, 7567-7577.	5.3	5
74	Modeling groundwater vulnerability to pollution using Optimized DRASTIC model. IOP Conference Series: Earth and Environmental Science, 2014, 20, 012002.	0.3	12
75	Analysis of total column ozone in Peninsular Malaysia retrieved from SCIAMACHY. Atmospheric Pollution Research, 2014, 5, 42-51.	3.8	14
76	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
77	Monthly distribution of diurnal total column ozone based on the 2011 satellite data in Peninsular Malaysia. Egyptian Journal of Remote Sensing and Space Science, 2013, 16, 103-109.	2.0	4
78	Combining multiple regression and principal component analysis for accurate predictions for column ozone in Peninsular Malaysia. Atmospheric Environment, 2013, 71, 36-43.	4.1	38
79	Investigation on the interannual variability of carbon dioxide column-averaged mole fractions in Peninsular Malaysia: 2003-2009. International Journal of Environment and Pollution, 2013, 53, 159.	0.2	3
80	Preliminary analysis of ground based lidar backscattered signal and performance evaluation in Penang Island. AIP Conference Proceedings, 2013, , .	0.4	2
81	Application of spectrometer cropscan MSR 16R and Landsat imagery for identification the spectral characteristics of land cover. , 2013, , .		0
82	A Two-Band Algorithm for Total Suspended Solid Concentration Mapping Using THEOS Data. Journal of Coastal Research, 2013, 29, 624.	0.3	3
83	Regression analysis in modeling of air surface temperature and factors affecting its value in Peninsular Malaysia. Optical Engineering, 2012, 51, 101702.	1.0	6
84	Relationship between orography and the wind-cloud systems of tropical cyclones. Optical Engineering, 2012, 51, 101712.	1.0	1
85	Detection of nitrate ions in water by optical fiber. , 2012, , .		0
86	The effects of orography on cloud and rainfall patterns during typhoon Ketsana (2009). , 2012, , .		1
87	Land cover/use mapping using multi-band imageries captured by Cropcam Unmanned Aerial Vehicle Autopilot (UAV) over Penang Island, Malaysia. , 2012, , .		3
88	The effects of orography in indochina on wind, cloud, and rainfall patterns during Typhoon Ketsana (2009). Asia-Pacific Journal of Atmospheric Sciences, 2012, 48, 295-314.	2.3	6
89	Comparison of remote sensing approach for mangrove mapping over Penang Island. , 2012, , .		0
90	Detection of heavy metal ions in aqueous solution using fiber optic sensor. , 2012, , .		0

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91	A comparison of radiometric correction techniques in the evaluation of the relationship between LST and NDVI in Landsat imagery. Environmental Monitoring and Assessment, 2012, 184, 3813-3829.	2.7	43
92	Methane Interannual Distribution over Peninsular Malaysia from Atmospheric Infrared Sounder Data: 2003â€"2009. Aerosol and Air Quality Research, 2012, 12, 1459-1466.	2.1	6
93	The impact of the typhoon to East Malaysia on orographic effect. , 2011, , .		0
94	Remote sensing for mapping surface water quality in coastal area of Aceh, Indonesia: Sendimentation effects of the December 2004 tsunami. , 2011, , .		2
95	Monitoring water quality from Landsat TM imagery in Penang, Malaysia. , 2011, , .		4
96	Texture analysis of AIRSAR images for land cover classification. , 2011, , .		5
97	Land cover/use classification by using ALOS-PALSAR and ALOS-AVNIR data. , 2011, , .		1
98	Landsat data to evaluate urban expansion and determine land use/land cover changes in Penang Island, Malaysia. Environmental Earth Sciences, 2010, 60, 1509-1521.	2.7	150
99	Development of speckle interferometry algorithm and system. , 2010, , .		0
100	An inexpensive optical sensor for monitoring total suspended particulates in air. , 2009, , .		0
101	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
102	A case study of global warming in Penang Island, Malaysia. IOP Conference Series: Earth and Environmental Science, 2009, 6, 412029.	0.3	0
103	Aerial Photogrammetry Method for Water Quality Monitoring Using Digital Camera. Open Environmental Sciences, 2009, 3, 20-25.	0.8	3
104	Mapping atmospheric pollution using remote sensing. SPIE Newsroom, 2007, , .	0.1	2
105	Water pollution monitoring using optical sensor based on transmitted light. , 2006, , .		0
106	Multispectral optical sensor based on light scattering for measuring total suspended solids. , 2006, 6201, 268.		0
107	Aerosol Characterization over Penang, Malaysia Using Aerosol Robotic Network (AERONET). Applied Mechanics and Materials, 0, 661, 81-92.	0.2	1
108	Effect of the Sulfate Concentration on the Graphene Film Produced by Electrochemical Exfoliation. Solid State Phenomena, 0, 290, 127-133.	0.3	0

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109	Algorithm For Air Quality Mapping Using Satellite Images. , 0, , .		1
110	A Novel Ensemble Machine Learning and Time Series Approach for Oil Palm Yield Prediction Using Landsat Time Series Imagery Based on NDVI. Geocarto International, 0, , 1-24.	3.5	9