

Cheng-Chien Liu

List of Publications by Year in descending order

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57
papers

1,425
citations

361296

20
h-index

345118

36
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58
all docs

58
docs citations

58
times ranked

1842
citing authors

#	ARTICLE	IF	CITATIONS
1	Deriving Ocean Surface Currents: A method using Geostationary Ocean Color Imager hourly data. IEEE Geoscience and Remote Sensing Magazine, 2021, 9, 138-156.	4.9	0
2	Investigating Sediment Dynamics in a Landslide-Dominated Catchment by Modeling Landslide Area and Fluvial Sediment Export. Water (Switzerland), 2020, 12, 2907.	1.2	4
3	Adaptive Contrast Enhancement of Optical Imagery Based on Level of Detail (LOD). Remote Sensing, 2020, 12, 1555.	1.8	1
4	Instability Index Derived from a Landslide Inventory for Watershed Stability Assessment and Mapping. ISPRS International Journal of Geo-Information, 2019, 8, 145.	1.4	4
5	Mapping Pure Mangrove Patches in Small Corridors and Sandbanks Using Airborne Hyperspectral Imagery. Remote Sensing, 2019, 11, 592.	1.8	6
6	Clouds Classification from Sentinel-2 Imagery with Deep Residual Learning and Semantic Image Segmentation. Remote Sensing, 2019, 11, 119.	1.8	39
7	Assessment of forest restoration with multitemporal remote sensing imagery. Scientific Reports, 2019, 9, 7279.	1.6	10
8	A New Approach Using AHP to Generate Landslide Susceptibility Maps in the Chen-Yu-Lan Watershed, Taiwan. Sensors, 2019, 19, 505.	2.1	27
9	Controls of preferential orientation of earthquake- and rainfall-triggered landslides in Taiwan's orogenic mountain belt. Earth Surface Processes and Landforms, 2019, 44, 1661-1674.	1.2	20
10	Spatiotemporal Variation of Cold Eddies in the Upwelling Zone off Northeastern Taiwan Revealed by the Geostationary Satellite Imagery of Ocean Color and Sea Surface Temperature. Sustainability, 2019, 11, 6979.	1.6	4
11	Innovative landslide susceptibility mapping supported by geomorphon and geographical detector methods. Landslides, 2018, 15, 465-474.	2.7	80
12	Influences of the Shadow Inventory on a Landslide Susceptibility Model. ISPRS International Journal of Geo-Information, 2018, 7, 374.	1.4	4
13	Flood Prevention and Emergency Response System Powered by Google Earth Engine. Remote Sensing, 2018, 10, 1283.	1.8	35
14	Terrain attributes of earthquake- and rainstorm-induced landslides in orogenic mountain Belt, Taiwan. Earth Surface Processes and Landforms, 2017, 42, 1549-1559.	1.2	18
15	Identification of inventory-based susceptibility models for assessing landslide probability: a case study of the Gaoping River Basin, Taiwan. Geomatics, Natural Hazards and Risk, 2017, 8, 1730-1751.	2.0	7
16	Near Real-Time Browsable Landsat-8 Imagery. Remote Sensing, 2017, 9, 79.	1.8	3
17	A new region-based preparatory factor for landslide susceptibility models: the total flux. Landslides, 2016, 13, 1049-1056.	2.7	8
18	Rapid Response to a Typhoon-Induced Flood with an SAR-Derived Map of Inundated Areas: Case Study and Validation. Remote Sensing, 2015, 7, 11954-11973.	1.8	31

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19	Rapidly responding to landslides and debris flow events using a low-cost unmanned aerial vehicle. <i>Journal of Applied Remote Sensing</i> , 2015, 9, 096016.	0.6	27
20	Preparing a landslide and shadow inventory map from high-spatial-resolution imagery facilitated by an expert system. <i>Journal of Applied Remote Sensing</i> , 2015, 9, 096080.	0.6	20
21	Supporting the annual international black-faced spoonbill census with a low-cost unmanned aerial vehicle. <i>Ecological Informatics</i> , 2015, 30, 170-178.	2.3	20
22	Development and evaluation of a genetic algorithm-based ocean color inversion model for simultaneously retrieving optical properties and bottom types in coral reef regions. <i>Applied Optics</i> , 2014, 53, 605.	0.9	7
23	Spatiotemporal variation of Gaoping River plume observed by Formosat-2 high resolution imagery. <i>Journal of Marine Systems</i> , 2014, 132, 28-37.	0.9	9
24	Examining Material Transport in Dynamic Coastal Environments: An Integrated Approach Using Field Data, Remote Sensing and Numerical Modeling. <i>Coastal Research Library</i> , 2014, , 333-364.	0.2	1
25	Emergency responses to natural disasters using Formosat-2 high-spatiotemporal-resolution imagery: forest fires. <i>Natural Hazards</i> , 2013, 66, 1037-1057.	1.6	4
26	Application of multi-scale remote sensing imagery to detection and hazard analysis. <i>Natural Hazards</i> , 2013, 65, 2241-2252.	1.6	8
27	Emissions Inventory for Rice Straw Open Burning in Taiwan Based on Burned Area Classification and Mapping Using Formosat-2 Satellite Imagery. <i>Aerosol and Air Quality Research</i> , 2013, 13, 474-487.	0.9	41
28	High quality DEM generation from PCIAS. , 2012, , .		6
29	Cross Calibration of Formosat-2 Remote Sensing Instrument (RSI) Using Terra Advanced Spaceborne Thermal Emission and Reflection Radiometer (ASTER). <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2012, 50, 4821-4831.	2.7	7
30	Comparison of surface heat balance in three cities in Taiwan using Terra ASTER and Formosat-2 RSI data. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2012, 18, 263-273.	1.4	7
31	A Multi-Sensor Approach to Examining the Distribution of Total Suspended Matter (TSM) in the Albemarle-Pamlico Estuarine System, NC, USA. <i>Remote Sensing</i> , 2011, 3, 962-974.	1.8	38
32	Classification of non-vegetated areas using Formosat-2 high spatiotemporal imagery: the case of Tseng-Wen Reservoir catchment area (Taiwan). <i>International Journal of Remote Sensing</i> , 2011, 32, 8519-8540.	1.3	15
33	Vicarious Calibration of the Formosat-2 Remote Sensing Instrument. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2010, 48, 2162-2169.	2.7	25
34	Using satellite observations of ocean color to categorize the dispersal patterns of river-borne substances in the Gaoping (Kaoping) River, Shelf and Canyon system. <i>Journal of Marine Systems</i> , 2009, 76, 496-510.	0.9	8
35	Change detection of gravel mining on riverbeds from the multi-temporal and high-spatial-resolution formosat-2 imagery. <i>River Research and Applications</i> , 2009, 25, 1136-1152.	0.7	16
36	Ice shelf disintegration by plate bending and hydro-fracture: Satellite observations and model results of the 2008 Wilkins ice shelf break-ups. <i>Earth and Planetary Science Letters</i> , 2009, 280, 51-60.	1.8	226

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37	Monitoring the dynamics of ice shelf margins in Polar Regions with high-spatial- and high-temporal-resolution space-borne optical imagery. <i>Cold Regions Science and Technology</i> , 2009, 55, 14-22.	1.6	16
38	Automatic extraction of ground control regions and orthorectification of remote sensing imagery. <i>Optics Express</i> , 2009, 17, 7970.	1.7	93
39	Monitoring reservoir water quality with Formosat-2 high spatiotemporal imagery. <i>Journal of Environmental Monitoring</i> , 2009, 11, 1982.	2.1	14
40	Rapid locating of fire points from Formosat-2 high spatial resolution imagery: example of the 2007 California wildfire. <i>International Journal of Wildland Fire</i> , 2009, 18, 415.	1.0	12
41	First space-borne high-spatial-resolution optical imagery of the Antarctic from Formosat-2. <i>Antarctic Science</i> , 2008, 20, 605-606.	0.5	6
42	Spectrum matching method for estimating the chlorophyll- <i>a</i> concentration, CDOM ratio, and backscatter fraction from remote sensing of ocean color. <i>Canadian Journal of Remote Sensing</i> , 2008, 34, 343-355.	1.1	15
43	Surface Heat Balance Analysis of Tainan City on March 6, 2001 Using ASTER and Formosat-2 Data. <i>Sensors</i> , 2008, 8, 6026-6044.	2.1	23
44	Image processing of FORMOSAT-2 data for monitoring the South Asia tsunami. <i>International Journal of Remote Sensing</i> , 2007, 28, 3093-3111.	1.3	43
45	Integrating semianalytical and genetic algorithms to retrieve the constituents of water bodies from remote sensing of ocean color. <i>Optics Express</i> , 2007, 15, 252.	1.7	22
46	Processing of FORMOSAT-2 Daily Revisit Imagery for Site Surveillance. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2006, 44, 3206-3214.	2.7	53
47	Fast and accurate model of underwater scalar irradiance for stratified Case 2 waters. <i>Optics Express</i> , 2006, 14, 1703.	1.7	4
48	Impacts of the Chi-Chi earthquake on subsequent rainfall-induced landslides in central Taiwan. <i>Engineering Geology</i> , 2006, 86, 87-101.	2.9	234
49	Estimating the underwater light field from remote sensing of ocean color. <i>Journal of Oceanography</i> , 2006, 62, 235-248.	0.7	12
50	Prediction of ocean colour: Monte Carlo simulation applied to a virtual ecosystem based on the Lagrangian Ensemble method. <i>International Journal of Remote Sensing</i> , 2004, 25, 921-936.	1.3	12
51	Illumination and turbidity effects on observing faceted bottom elements with uniform Lambertian albedos. <i>Limnology and Oceanography</i> , 2003, 48, 355-363.	1.6	21
52	A spectrum matching method for estimating the inherent optical properties from remote sensing of ocean color. , 2003, , .		0
53	Fast and accurate model of underwater scalar irradiance. <i>Applied Optics</i> , 2002, 41, 4962.	2.1	29
54	Optical model for use in oceanic ecosystem models. <i>Applied Optics</i> , 1999, 38, 4475.	2.1	20

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55	Flow Induced by a Pair of Line Vortices Moving against a Circular Cylinder. Journal of the Physical Society of Japan, 1995, 64, 1557-1578.	0.7	3
56	Monitoring the illegal quarry mining of gravel on the riverbed using daily revisit FORMOSAT-2 imagery. , 0, , .		0
57	Responding to natural disasters with satellite imagery. SPIE Newsroom, 0, , .	0.1	4