# Nektarios Chrysoulakis

## List of Publications by Year
in descending order

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|---|---|---|---|
| 117 papers | 3,072 citations | 159358 30 h-index | 182168 51 g-index |
| 127 all docs | 127 docs citations | 127 times ranked | 3830 citing authors |

| # | Article | IF | Citations |
|---|---------|----|-----------| 
| 1 | SRTM vs ASTER elevation products. Comparison for two regions in Crete, Greece. International Journal of Remote Sensing, 2006, 27, 4819-4838. | 1.3 | 163 |
| 2 | Atmospheric correction for satellite remotely sensed data intended for agricultural applications: impact on vegetation indices. Natural Hazards and Earth System Sciences, 2010, 10, 89-95. | 1.5 | 155 |
| 3 | DART: Recent Advances in Remote Sensing Data Modeling With Atmosphere, Polarization, and Chlorophyll Fluorescence. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 2640-2649. | 2.3 | 146 |
| 4 | Estimating Satellite-Derived Bathymetry (SDB) with the Google Earth Engine and Sentinel-2. Remote Sensing, 2018, 10, 859. | 1.8 | 143 |
| 5 | Online Global Land Surface Temperature Estimation from Landsat. Remote Sensing, 2017, 9, 1208. | 1.8 | 135 |
| 6 | Sustainable urban metabolism as a link between bio-physical sciences and urban planning: The BRIDGE project. Landscape and Urban Planning, 2013, 112, 100-117. | 3.4 | 131 |
| 7 | Towards Global-Scale Seagrass Mapping and Monitoring Using Sentinel-2 on Google Earth Engine: The Case Study of the Aegean and Ionian Seas. Remote Sensing, 2018, 10, 1227. | 1.8 | 113 |
| 8 | Urban heat island mitigation by green infrastructure in European Functional Urban Areas. Sustainable Cities and Society, 2022, 77, 103564. | 5.1 | 106 |
| 9 | Landsat 8 vs. Landsat 5: A comparison based on urban and peri-urban land cover mapping. International Journal of Applied Earth Observation and Geoinformation, 2015, 35, 259-269. | 1.4 | 93 |
| 10 | A decision-support system for sustainable urban metabolism in Europe. Environmental Impact Assessment Review, 2013, 38, 109-119. | 4.4 | 92 |
| 11 | Urban energy exchanges monitoring from space. Scientific Reports, 2018, 8, 11498. | 1.6 | 75 |
| 12 | Improving the estimation of urban surface emissivity based on sub-pixel classification of high resolution satellite imagery. Remote Sensing of Environment, 2012, 117, 125-134. | 4.6 | 71 |
| 13 | Protected Area management: Fusion and confusion with the ecosystem services approach. Science of the Total Environment, 2019, 651, 2432-2443. | 3.9 | 69 |
| 14 | Estimation of urban PM10 concentration, based on MODIS and MERIS/AATSR synergistic observations. Atmospheric Environment, 2013, 79, 448-454. | 1.9 | 59 |
| 15 | On the use of Sentinel-2 for coastal habitat mapping and satellite-derived bathymetry estimation using downscaled coastal aerosol band. International Journal of Applied Earth Observation and Geoinformation, 2019, 80, 58-70. | 1.4 | 58 |
| 16 | Estimating urban PM10 and PM2.5 concentrations, based on synergistic MERIS/AATSR aerosol observations, land cover and morphology data. Remote Sensing of Environment, 2016, 172, 148-164. | 4.6 | 57 |
| 17 | Remote Sensing, natural hazards and the contribution of ESA Sentinels missions. Remote Sensing Applications: Society and Environment, 2017, 6, 25-38. | 0.8 | 53 |
| 18 | Bayesian geostatistical modelling of PM10 and PM2.5 surface level concentrations in Europe using high-resolution satellite-derived products. Environment International, 2018, 121, 57-70. | 4.8 | 51 |

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|---|---------|----|-----------|
| 19 | Integration of satellite remote sensing data in ecosystem modelling at local scales: Practices and trends. Methods in Ecology and Evolution, 2018, 9, 1810-1821. | 2.2 | 48 |
| 20 | Comparison of aerosol optical thickness with in situ visibility data over Cyprus. Natural Hazards and Earth System Sciences, 2010, 10, 421-428. | 1.5 | 47 |
| 21 | Cubesats Allow High Spatiotemporal Estimates of Satellite-Derived Bathymetry. Remote Sensing, 2019, 11, 1299. | 1.8 | 47 |
| 22 | Comparison of atmospheric correction methods using ASTER data for the area of Crete, Greece. International Journal of Remote Sensing, 2010, 31, 6347-6385. | 1.3 | 45 |
| 23 | Estimation of the all-wave urban surface radiation balance by use of ASTER multispectral imagery and in situ spatial data. Journal of Geophysical Research, 2003, 108, . | 3.3 | 44 |
| 24 | Using midday surface temperature to estimate cooling degree-days from NOAA-AVHRR thermal infrared data: An application for Athens, Greece. Solar Energy, 2006, 80, 414-422. | 2.9 | 42 |
| 25 | Mapping coastal marine habitats and delineating the deep limits of the Neptune's seagrass meadows using very high resolution Earth observation data. International Journal of Remote Sensing, 2018, 39, 8670-8687. | 1.3 | 42 |
| 26 | Eddy Covariance measurements and source partitioning of $CO_2$ emissions in an urban environment: Application for Heraklion, Greece. Atmospheric Environment, 2019, 201, 278-292. | 1.9 | 40 |
| 27 | Trends of urban surface temperature and heat island characteristics in the Mediterranean. Theoretical and Applied Climatology, 2017, 130, 807-816. | 1.3 | 39 |
| 28 | DEIMS-SDR â€" A web portal to document research sites and their associated data. Ecological Informatics, 2019, 51, 15-24. | 2.3 | 39 |
| 29 | A Conceptual List of Indicators for Urban Planning and Management Based on Earth Observation. ISPRS International Journal of Geo-Information, 2014, 3, 980-1002. | 1.4 | 37 |
| 30 | Direct observations of $CO_2$ emission reductions due to COVID-19 lockdown across European urban districts. Science of the Total Environment, 2022, 830, 154662. | 3.9 | 37 |
| 31 | Evaluating remotely sensed rainfall estimates using nonlinear mixed models and geographically weighted regression. Environmental Modelling and Software, 2008, 23, 1438-1447. | 1.9 | 34 |
| 32 | Urban Surface Temperature Time Series Estimation at the Local Scale by Spatial-Spectral Unmixing of Satellite Observations. Remote Sensing, 2015, 7, 4139-4156. | 1.8 | 33 |
| 33 | Validation of an infrared-based satellite algorithm to estimate accumulated rainfall over the Mediterranean basin. Theoretical and Applied Climatology, 2009, 95, 91-109. | 1.3 | 32 |
| 34 | Improving the estimation of land surface temperature for the region of Greece: Adjustment of a split window algorithm to account for the distribution of precipitable water. International Journal of Remote Sensing, 2002, 23, 871-880. | 1.3 | 30 |
| 35 | Spatial Distribution of Sensible and Latent Heat Flux in the City of Basel (Switzerland). IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2018, 11, 2717-2723. | 2.3 | 29 |
| 36 | Evaluation of satellite-derived products for the characterization of the urban thermal environment. Journal of Applied Remote Sensing, 2012, 6, 061704. | 0.6 | 28 |

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|---|---------|----|-----------|
| 37 | Tsunami hazard in the southeast Aegean Sea. Coastal Engineering, 2012, 60, 136-148. | 1.7 | 26 |
| 38 | Exploiting satellite observations for global surface albedo trends monitoring. Theoretical and Applied Climatology, 2019, 137, 1171-1179. | 1.3 | 26 |
| 39 | An improved algorithm for the detection of plumes caused by natural or technological hazards using AVHRR imagery. Remote Sensing of Environment, 2007, 108, 393-406. | 4.6 | 25 |
| 40 | Leveraging Commercial High-Resolution Multispectral Satellite and Multibeam Sonar Data to Estimate Bathymetry: The Case Study of the Caribbean Sea. Remote Sensing, 2019, 11, 1830. | 1.8 | 24 |
| 41 | Validation of Pleiades Tri-Stereo DSM in Urban Areas. ISPRS International Journal of Geo-Information, 2018, 7, 118. | 1.4 | 23 |
| 42 | A new algorithm for the detection of plumes caused by industrial accidents, based on NOAA/AVHRR imagery. International Journal of Remote Sensing, 2003, 24, 3353-3368. | 1.3 | 22 |
| 43 | X-SVM: An Extension of C-SVM Algorithm for Classification of High-Resolution Satellite Imagery. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 3805-3815. | 2.7 | 21 |
| 44 | A web based DSS for the management of floods and wildfires (FLIRE) in urban and periurban areas. Environmental Modelling and Software, 2016, 86, 111-115. | 1.9 | 20 |
| 45 | Spatial and Seasonal Patterns in Vegetation Growth-Limiting Factors over Europe. Remote Sensing, 2019, 11, 2406. | 1.8 | 20 |
| 46 | Validation of ASTER GDEM for the Area of Greece. Photogrammetric Engineering and Remote Sensing, 2011, 77, 157-165. | 0.3 | 18 |
| 47 | Comparison of Physically and Image Based Atmospheric Correction Methods for Sentinel-2 Satellite Imagery. Springer Atmospheric Sciences, 2017, , 255-261. | 0.4 | 16 |
| 48 | Detecting and monitoring plumes caused by major industrial accidents with JPLUME, a new software tool for low-resolution image analysis. Environmental Modelling and Software, 2005, 20, 1486-1494. | 1.9 | 15 |
| 49 | Technical note: Using NOAA and FY imagery to track plumes caused by the 2003 bombing of Baghdad. International Journal of Remote Sensing, 2004, 25, 5247-5254. | 1.3 | 14 |
| 50 | Combined use of MODIS, AVHRR and radiosonde data for the estimation of spatiotemporal distribution of precipitable water. Journal of Geophysical Research, 2008, 113, . | 3.3 | 14 |
| 51 | Precipitation effects on the selection of suitable non-variant targets intended for atmospheric correction of satellite remotely sensed imagery. Atmospheric Research, 2013, 131, 73-80. | 1.8 | 13 |
| 52 | Spatial interpolation of urban air temperatures using satellite-derived predictors. Theoretical and Applied Climatology, 2020, 141, 657-672. | 1.3 | 13 |
| 53 | SEBU: A novel fully automated Google Earth Engine surface energy balance model for urban areas. Urban Climate, 2022, 44, 101187. | 2.4 | 13 |
| 54 | Validation of MERIS/AATSR synergy algorithm for aerosol retrieval against globally distributed AERONET observations and comparison with MODIS aerosol product. Atmospheric Research, 2013, 132-133, 102-113. | 1.8 | 11 |

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|---|---|---|---|
| 55 | Estimation of the Land Surface Albedo Changes in the Broader Mediterranean Area, Based on 12 Years of Satellite Observations. Remote Sensing, 2015, 7, 16150-16163. | 1.8 | 11 |
| 56 | Calibration of urban canopies albedo and 3D shortwave radiative budget using remote-sensing data and the DART model. European Journal of Remote Sensing, 2018, 51, 739-753. | 1.7 | 11 |
| 57 | Using the Urban Atlas dataset for estimating spatial metrics. Methodology and application in urban areas of Greece. CyberGeo, 0, , . | 0.0 | 11 |
| 58 | A new approach for the detection of major fires caused by industrial accidents, using NOAA/AVHRR imagery. International Journal of Remote Sensing, 2000, 21, 1743-1748. | 1.3 | 10 |
| 59 | Development of a new image based atmospheric correction algorithm for aerosol optical thickness retrieval using the darkest pixel method. Journal of Applied Remote Sensing, 2012, 6, 063538. | 0.6 | 10 |
| 60 | Exploiting Earth Observation data products for mapping Local Climate Zones. , 2015, , . | | 10 |
| 61 | Monitoring and Evaluating Nature-Based Solutions Implementation in Urban Areas by Means of Earth Observation. Remote Sensing, 2021, 13, 1503. | 1.8 | 9 |
| 62 | Energy in the urban environment: use of Terra/ASTER imagery as a tool in urban planning. Journal of the Indian Society of Remote Sensing, 2002, 30, 245-254. | 1.2 | 8 |
| 63 | The identification of pseudo-invariant targets using ground field spectroscopy measurements intended for the removal of atmospheric effects from satellite imagery: a case study of the Limassol area in Cyprus. International Journal of Remote Sensing, 2012, 33, 7240-7256. | 1.3 | 8 |
| 64 | Incorporating Bio-Physical Sciences into a Decision Support Tool for Sustainable Urban Planning. Sustainability, 2014, 6, 7982-8006. | 1.6 | 8 |
| 65 | Variations and Trends in Annual and Seasonal Means of Precipitable Water in Greece as Deduced from Radiosonde Measurements. Toxicological and Environmental Chemistry, 2003, 84, 1-6. | 0.6 | 8 |
| 66 | Spectro-radiometric measurements of non-variant targets intended for the removal of atmospheric effects from satellite images: the case study of Lemesos area in Cyprus. Proceedings of SPIE, 2010, , . | 0.8 | 7 |
| 67 | Detailed urban surface characterization using spectra from enhanced spatial resolution Sentinel-2 imagery and a hierarchical multiple endmember spectral mixture analysis approach. Journal of Applied Remote Sensing, 2019, 13, 1. | 0.6 | 7 |
| 68 | Characterizing Physical and Social Compositions of Cities to Inform Climate Adaptation: Case Studies in Germany. Urban Planning, 2021, 6, 321-337. | 0.7 | 7 |
| 69 | Estimation of precipitable water in Greece on the basis of radiosondes and satellite data. Toxicological and Environmental Chemistry, 1997, 58, 163-171. | 0.6 | 6 |
| 70 | Categorization of cold period weather types in Greece on the basis of the photointerpretation of NOAA/AVHRR imagery. International Journal of Remote Sensing, 2004, 25, 2951-2977. | 1.3 | 6 |
| 71 | Updating the 1:50.000 topographic maps using ASTER and SRTM DEM: the case of Athens, Greece. , 2006, 6366, 35. | | 6 |
| 72 | Monitoring Air Pollution in the Vicinity of Cultural Heritage Sites in Cyprus Using Remote Sensing Techniques. Lecture Notes in Computer Science, 2010, , 536-547. | 1.0 | 6 |

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|---|---------|-----|-----------|
| 73 | FLIRE DSS: A web tool for the management of floods and wildfires in urban and periurban areas. Open Geosciences, 2016, 8, . | 0.6 | 6 |
| 74 | Comparison of physically and image based atmospheric correction methods for Sentinel-2 satellite imagery. , 2016, , . | | 6 |
| 75 | A novel approach for anthropogenic heat flux estimation from space. , 2016, , . | | 6 |
| 76 | Spatial distribution of sensible and latent heat flux in the URBANFLUXES case study city Basel (Switzerland). , 2017, , . | | 6 |
| 77 | Spatiotemporal monitoring of surface temperature in an urban area using UAV imaging and tower-mounted radiometer measurements. , 2019, , . | | 6 |
| 78 | On-line Îˆvaluation of Earth Observation Derived Indicators for Urban Planning and Management. Urban Planning and Design Research, 2015, 3, 17. | 0.3 | 6 |
| 79 | Estimation of spatio-temporal distribution of precipitable water using MODIS and AVHRR data: a case study for Cyprus. Advances in Geosciences, 0, 30, 23-29. | 12.0 | 6 |
| 80 | TAD--a new satellite image analysis software tool for the detection of major fires caused by technological accidents. International Journal of Remote Sensing, 2003, 24, 1259-1271. | 1.3 | 5 |
| 81 | Urban Water Storage Capacity Inferred From Observed Evapotranspiration Recession. Geophysical Research Letters, 2022, 49, . | 1.5 | 5 |
| 82 | Use of earth observation in support of environmental impact assessments: prospects and trends. Environmental Science and Policy, 2000, 3, 287-294. | 2.4 | 4 |
| 83 | Thermal detection of plumes produced by industrial accidents in urban areas based on the presence of the heat island. International Journal of Remote Sensing, 2002, 23, 2909-2916. | 1.3 | 4 |
| 84 | The development of air quality indices through image-retrieved AOT and PM10measurements in Limassol Cyprus. , 2012, , . | | 4 |
| 85 | Long Term Monitoring of Air Pollution on Monuments and Cultural Heritage Sites in Cyprus Using Satellite Remote Sensing. International Journal of Heritage in the Digital Era, 2012, 1, 145-167. | 0.5 | 4 |
| 86 | Uncertainty Estimation of Local-Scale Land Surface Temperature Products Over Urban Areas Using Monte Carlo Simulations. IEEE Geoscience and Remote Sensing Letters, 2016, 13, 917-921. | 1.4 | 4 |
| 87 | ANthropogenic heat FLUX estimation from Space. , 2017, , . | | 4 |
| 88 | Impact of urban planning alternatives on air quality: URBAIR model application. , 2011, , . | | 4 |
| 89 | Recent Improvements in the Dart Model for Atmosphere, Topography, Large Landscape, Chlorophyll Fluorescence, Satellite Image Inversion. , 2020, , . | | 4 |
| 90 | Towards EO-based sustainable urban planning and management. , 2013, , . | | 3 |

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| 91 | Exploiting earth observation in sustainable urban planning and management &#x2014; The GEOURBAN project. , 2013, , . | | 3 |
| 92 | Why To Model Remote Sensing Measurements In 3d? Recent Advances In Dart: Atmosphere, Topography, Large Landscape, Chlorophyll Fluorescence And Satellite Image Inversion. , 2020, , . | | 3 |
| 93 | A TRMM-Calibrated infrared technique for rainfall estimation: application on rain events over eastern Mediterranean. Advances in Geosciences, 0, 7, 181-188. | 12.0 | 3 |
| 94 | DISTRIBUTION OF PRECIPITABLE WATER IN SOUTHERN GREECE IN SUPPORT OF SOLAR RADIATION MODELS. International Journal of Solar Energy, 2000, 20, 197-206. | 0.2 | 2 |
| 95 | Estimation of land surface albedo time series and trends based on MODIS data. Proceedings of SPIE, 2014, , . | 0.8 | 2 |
| 96 | 3D modeling of radiative transfer and energy balance in urban canopies combined to remote sensing acquisitions. , 2016, , . | | 2 |
| 97 | Assessing Urban canopies 3D radiative and Energy Budgets with remote sensing and DART model. , 2017, , . | | 2 |
| 98 | Evaluation of nature-based solutions implementation scenarios, using urban surface modelling. , 0, , 1-42. | | 2 |
| 99 | Earth Observation Data Exploitation in Urban Surface Modelling: The Urban Energy Balance Response to a Suburban Park Development. Remote Sensing, 2022, 14, 1473. | 1.8 | 2 |
| 100 | The georeferencing errors of satellite data in remote sensing applications. , 2007, , . | | 1 |
| 101 | Application of the multifractal microcanonical formalism to the detection of fire plumes in NOAAâ€"AVHRR data. International Journal of Remote Sensing, 2008, 29, 4189-4205. | 1.3 | 1 |
| 102 | Atmospheric Observation Data De-Noising Based on a New Wavelet Threshold Function. , 2009, , . | | 1 |
| 103 | Accuracy assessment of atmospheric correction algorithms using sun-photometers (AERONET), lidar system, and in situ spectroradiometers. , 2010, , . | | 1 |
| 104 | Earth Observation for Urban Climate Monitoring: Surface Cover and Land Surface Temperature. , 2018, , . | | 1 |
| 105 | Estimation of urban air temperature spatial patterns based on sensors network observations and satellite derived predictors. , 2018, , . | | 1 |
| 106 | An assessment of climatological cloud characteristics in South Eastern Mediterranean in support of the study of the interaction between climate and life processes. Toxicological and Environmental Chemistry, 1997, 59, 125-144. | 0.6 | 0 |
| 107 | A model algorithm for defining the vertical profile of absolute humidity by ground measurements of humidity. Toxicological and Environmental Chemistry, 1997, 58, 269-279. | 0.6 | 0 |
| 108 | Integration of Earth observation and in-situ spatial data for the development of a decision support tool for technological risk management. , 2003, , . | | 0 |

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|---|---------|----|-----------|
| 109 | Hydrologic land-cover classification mapping at the local level with the combined use of ASTER multispectral imagery and GPS measurements. Proceedings of SPIE, 2004, , . | 0.8 | 0 |
| 110 | The use of volcanic beach sand as a pseudo-invariant target for atmospheric correction using Landsat images. Proceedings of SPIE, 2012, , . | 0.8 | 0 |
| 111 | The comparison of the darkest pixel and empirical line atmospheric correction methods to retrieve aerosol optical thickness using the radiative transfer equations. , 2012, , . | | 0 |
| 112 | Satellite Based Estimation of Urban Surface Emissivity with the Use of Sub-Pixel Classification Techniques. Springer Atmospheric Sciences, 2013, , 231-237. | 0.4 | 0 |
| 113 | Web service tools in the era of forest fire management and elimination. Proceedings of SPIE, 2014, , . | 0.8 | 0 |
| 114 | Anthropogenic heat flux estimation from space: results of the first phase of the URBANFLUXES project. Proceedings of SPIE, 2016, , . | 0.8 | 0 |
| 115 | Towards discriminating between zones with different thermal behaviour in cities. , 2017, , . | | 0 |
| 116 | RSLab Landsat land surface temperature application assessment with the new Landsat collection 2 in urban areas. , 2021, , . | | 0 |
| 117 | Satellite remote sensing for fine scale mapping and impact assessment of fires in agroforest ecosystems. , 2021, , . | | 0 |