

# Luis Alonso

## List of Publications by Year in descending order

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115  
papers

6,533  
citations

57758

44  
h-index

64796

79  
g-index

115  
all docs

115  
docs citations

115  
times ranked

6068  
citing authors

#	ARTICLE	IF	CITATIONS
1	Impact of Structural, Photochemical and Instrumental Effects on Leaf and Canopy Reflectance Variability in the 500–600 nm Range. <i>Remote Sensing</i> , 2022, 14, 56.	4.0	6
2	Towards a novel approach for Sentinel-3 synergistic OLCI/SLSTR cloud and cloud shadow detection based on stereo cloud-top height estimation. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2021, 181, 238-253.	11.1	15
3	Spatio-spectral deconvolution for high resolution spectral imaging with an application to the estimation of sun-induced fluorescence. <i>Remote Sensing of Environment</i> , 2021, 267, 112718.	11.0	3
4	Delay and Energy Consumption Analysis of Frame Slotted ALOHA variants for Massive Data Collection in Internet-of-Things Scenarios. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 327.	2.5	4
5	Comparative analysis of atmospheric radiative transfer models using the Atmospheric Look-up table Generator (ALG) toolbox (version 2.0). <i>Geoscientific Model Development</i> , 2020, 13, 1945-1957.	3.6	20
6	Early Diagnosis of Vegetation Health From High-Resolution Hyperspectral and Thermal Imagery: Lessons Learned From Empirical Relationships and Radiative Transfer Modelling. <i>Current Forestry Reports</i> , 2019, 5, 169-183.	7.4	58
7	In vivo photoprotection mechanisms observed from leaf spectral absorbance changes showing VIS–NIR slow-induced conformational pigment bed changes. <i>Photosynthesis Research</i> , 2019, 142, 283-305.	2.9	22
8	Leaf-Level Spectral Fluorescence Measurements: Comparing Methodologies for Broadleaves and Needles. <i>Remote Sensing</i> , 2019, 11, 532.	4.0	14
9	Sun-Induced Chlorophyll Fluorescence I: Instrumental Considerations for Proximal Spectroradiometers. <i>Remote Sensing</i> , 2019, 11, 960.	4.0	31
10	Variability and Uncertainty Challenges in Scaling Imaging Spectroscopy Retrievals and Validations from Leaves Up to Vegetation Canopies. <i>Surveys in Geophysics</i> , 2019, 40, 631-656.	4.6	35
11	Sun-Induced Chlorophyll Fluorescence III: Benchmarking Retrieval Methods and Sensor Characteristics for Proximal Sensing. <i>Remote Sensing</i> , 2019, 11, 962.	4.0	57
12	Sun-Induced Chlorophyll Fluorescence II: Review of Passive Measurement Setups, Protocols, and Their Application at the Leaf to Canopy Level. <i>Remote Sensing</i> , 2019, 11, 927.	4.0	61
13	The High-Performance Airborne Imaging Spectrometer HyPlant—From Raw Images to Top-of-Canopy Reflectance and Fluorescence Products: Introduction of an Automatized Processing Chain. <i>Remote Sensing</i> , 2019, 11, 2760.	4.0	53
14	Gradient-Based Automatic Lookup Table Generator for Radiative Transfer Models. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2019, 57, 1040-1048.	6.3	15
15	Design of a Generic 3-D Scene Generator for Passive Optical Missions and Its Implementation for the ESA's FLEX/Sentinel-3 Tandem Mission. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2018, 56, 1290-1307.	6.3	16
16	Combining distributed queuing with energy harvesting to enable perpetual distributed data collection applications. <i>Transactions on Emerging Telecommunications Technologies</i> , 2018, 29, e3195.	3.9	3
17	Photoprotection Dynamics Observed at Leaf Level from Fast Temporal Reflectance Changes. , 2018, , .		2
18	FLEX/S3 Tandem Mission Performance Assessment: Evolution of the End-to-End Simulator Flex-E. , 2018, , .		0

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19	Alg: a Toolbox for the Generation of Look-Up tables Based on Atmospheric Radiative Transfer Models. , 2018, , .		0
20	Compensation of Oxygen Transmittance Effects for Proximal Sensing Retrieval of Canopyâ€“Leaving Sunâ€“Induced Chlorophyll Fluorescence. Remote Sensing, 2018, 10, 1551.	4.0	44
21	Difference and Potential of the Upward and Downward Sun-Induced Chlorophyll Fluorescence on Detecting Leaf Nitrogen Concentration in Wheat. Remote Sensing, 2018, 10, 1315.	4.0	12
22	Spatial Variation of Leaf Optical Properties in a Boreal Forest Is Influenced by Species and Light Environment. Frontiers in Plant Science, 2017, 8, 309.	3.6	32
23	The 2013 FLEXâ€“US Airborne Campaign at the Parker Tract Loblolly Pine Plantation in North Carolina, USA. Remote Sensing, 2017, 9, 612.	4.0	27
24	Impact of Atmospheric Inversion Effects on Solar-Induced Chlorophyll Fluorescence: Exploitation of the Apparent Reflectance as a Quality Indicator. Remote Sensing, 2017, 9, 622.	4.0	20
25	Assessment of Approximations in Aerosol Optical Properties and Vertical Distribution into FLEX Atmospherically-Corrected Surface Reflectance and Retrieved Sun-Induced Fluorescence. Remote Sensing, 2017, 9, 675.	4.0	12
26	Diurnal Cycle Relationships between Passive Fluorescence, PRI and NPQ of Vegetation in a Controlled Stress Experiment. Remote Sensing, 2017, 9, 770.	4.0	67
27	Predicting year of plantation with hyperspectral and lidar data. , 2017, , .		0
28	Oxygen transmittance correction for solar-induced chlorophyll fluorescence measured on proximal sensing: Application to the NASA-GSFC fusion tower. , 2017, , .		2
29	How Universal Is the Relationship between Remotely Sensed Vegetation Indices and Crop Leaf Area Index? A Global Assessment. Remote Sensing, 2016, 8, 597.	4.0	91
30	Goodbye, ALOHA!. IEEE Access, 2016, 4, 2029-2044.	4.2	101
31	Connectivity Analysis in Wireless-Powered Sensor Networks with Battery-Less Devices. , 2016, , .		7
32	FLEX End-to-End Mission Performance Simulator. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 4215-4223.	6.3	42
33	Multiobjective Auction-Based Switching-Off Scheme in Heterogeneous Networks: To Bid or Not to Bid?. IEEE Transactions on Vehicular Technology, 2016, 65, 9168-9180.	6.3	59
34	Information Exchange in Randomly Deployed Dense WSNs With Wireless Energy Harvesting Capabilities. IEEE Transactions on Wireless Communications, 2016, 15, 3008-3018.	9.2	70
35	Plant chlorophyll fluorescence: active and passive measurements at canopy and leaf scales with different nitrogen treatments. Journal of Experimental Botany, 2016, 67, 275-286.	4.8	82
36	Red and far red Sunâ€“induced chlorophyll fluorescence as a measure of plant photosynthesis. Geophysical Research Letters, 2015, 42, 1632-1639.	4.0	171

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37	A sun-induced vegetation fluorescence retrieval method from top of atmosphere radiance for the FLEX/Sentinel-3 TanDEM mission. , 2015, , .		1
38	Sun-induced fluorescence “a new probe of photosynthesis: First maps from the imaging spectrometer” HyPlant. Global Change Biology, 2015, 21, 4673-4684.	9.5	213
39	Angular Dependency of Hyperspectral Measurements over Wheat Characterized by a Novel UAV Based Goniometer. Remote Sensing, 2015, 7, 725-746.	4.0	109
40	Novel leaf-level measurements of chlorophyll fluorescence for photosynthetic efficiency. , 2015, , .		1
41	Propagation of spectral characterization errors of imaging spectrometers at level-1 and its correction within a level-2 recalibration scheme. , 2015, , .		2
42	Design of a satellite end-to-end mission performance simulator for imaging spectrometers and its application to the ESA's FLEX/Sentinel-3 tandem mission. Proceedings of SPIE, 2015, , .	0.8	0
43	Relating Hyperspectral Airborne Data to Ground Measurements in a Complex and Discontinuous Canopy. Acta Geophysica, 2015, 63, 1499-1515.	2.0	5
44	Reliable Machine-to-Machine Multicast Services with Multi-Radio Cooperative Retransmissions. Mobile Networks and Applications, 2015, 20, 734-744.	3.3	3
45	LPDQ: A self-scheduled TDMA MAC protocol for one-hop dynamic low-power wireless networks. Pervasive and Mobile Computing, 2015, 20, 84-99.	3.3	26
46	Modeling and Analysis of Reservation Frame Slotted-ALOHA in Wireless Machine-to-Machine Area Networks for Data Collection. Sensors, 2015, 15, 3911-3931.	3.8	5
47	An Overview of the Regional Experiments for Land-atmosphere Exchanges 2012 (REFLEX 2012) Campaign. Acta Geophysica, 2015, 63, 1465-1484.	2.0	9
48	Retrieval of sun-induced fluorescence using advanced spectral fitting methods. Remote Sensing of Environment, 2015, 169, 344-357.	11.0	119
49	Bidirectional sun-induced chlorophyll fluorescence emission is influenced by leaf structure and light scattering properties “A bottom-up approach. Remote Sensing of Environment, 2015, 158, 169-179.	11.0	99
50	Remote sensing of sun-induced chlorophyll fluorescence at different scales. , 2014, , .		0
51	A fluorescence retrieval method for the flex sentinel-3 tandem mission. , 2014, , .		0
52	Synthetic scene simulator for hyperspectral spaceborne passive optical sensors. Application to ESA's FLEX/sentinel-3 tandem mission. , 2014, , .		0
53	A Survey on M2M Systems for mHealth: A Wireless Communications Perspective. Sensors, 2014, 14, 18009-18052.	3.8	98
54	A Cloud-Assisted Random Linear Network Coding Medium Access Control Protocol for Healthcare Applications. Sensors, 2014, 14, 4806-4830.	3.8	35

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55	Standardized Low-Power Wireless Communication Technologies for Distributed Sensing Applications. <i>Sensors</i> , 2014, 14, 2663-2682.	3.8	27
56	Experimental Energy Consumption of Frame Slotted ALOHA and Distributed Queuing for Data Collection Scenarios. <i>Sensors</i> , 2014, 14, 13416-13436.	3.8	3
57	End-to-end communication challenges in M2M systems for mHealth applications. , 2014, , .		1
58	Sharing the small cells for energy efficient networking: How much does it cost?. , 2014, , .		14
59	Optimizing LUT-Based RTM Inversion for Semiautomatic Mapping of Crop Biophysical Parameters from Sentinel-2 and -3 Data: Role of Cost Functions. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2014, 52, 257-269.	6.3	97
60	On Hyperspectral Remote Sensing of Leaf Biophysical Constituents: Decoupling Vegetation Structure and Leaf Optics Using CHRIS-PROBA Data Over Crops in Barrax. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2014, 11, 1579-1583.	3.1	26
61	Device-to-device communications and small cells: enabling spectrum reuse for dense networks. <i>IEEE Wireless Communications</i> , 2014, 21, 98-105.	9.0	54
62	Model based compressed sensing reconstruction algorithms for ECG telemonitoring in WBANs. , 2014, 35, 105-116.		20
63	A field study on solar-induced chlorophyll fluorescence and pigment parameters along a vertical canopy gradient of four tree species in an urban environment. <i>Science of the Total Environment</i> , 2014, 466-467, 185-194.	8.0	25
64	Gaussian processes retrieval of leaf parameters from a multi-species reflectance, absorbance and fluorescence dataset. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2014, 134, 37-48.	3.8	70
65	Wireless Energy Harvesting in Two-Way Network Coded Cooperative Communications: A Stochastic Approach for Large Scale Networks. <i>IEEE Communications Letters</i> , 2014, 18, 1011-1014.	4.1	69
66	Efficient Contention Resolution in Highly Dense LTE Networks for Machine Type Communications. , 2014, , .		0
67	Misi- <sup>3</sup> n FLEX (Fluorescence Explorer): Observaci- <sup>3</sup> n de la fluorescencia por teledetecci- <sup>3</sup> n como nueva t- <sup>3</sup> cnica de estudio del estado de la vegetaci- <sup>3</sup> n terrestre a escala global. <i>Revista De Teledeteccion</i> , 2014, .	0.6	3
68	Multitemporal fusion of Landsat/TM and ENVISAT/MERIS for crop monitoring. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2013, 23, 132-141.	2.8	125
69	A red-edge spectral index for remote sensing estimation of green LAI over agroecosystems. <i>European Journal of Agronomy</i> , 2013, 46, 42-52.	4.1	214
70	Upward and downward solar-induced chlorophyll fluorescence yield indices of four tree species as indicators of traffic pollution in Valencia. <i>Environmental Pollution</i> , 2013, 173, 29-37.	7.5	89
71	Gaussian Process Retrieval of Chlorophyll Content From Imaging Spectroscopy Data. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2013, 6, 867-874.	4.9	92
72	Potential retrieval of biophysical parameters from FLORIS, S3-OLCI and its synergy. , 2012, , .		1

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73	Optimizing LUT-based radiative transfer model inversion for retrieval of biophysical parameters using hyperspectral data. , 2012, , .		1
74	Machine learning regression algorithms for biophysical parameter retrieval: Opportunities for Sentinel-2 and -3. Remote Sensing of Environment, 2012, 118, 127-139.	11.0	400
75	Dynamic energy efficient distance-aware Base Station switch on/off scheme for LTE-advanced. , 2012, , .		37
76	Retrieval of Vegetation Biophysical Parameters Using Gaussian Process Techniques. IEEE Transactions on Geoscience and Remote Sensing, 2012, 50, 1832-1843.	6.3	201
77	A RADARSAT-2 Quad-Polarized Time Series for Monitoring Crop and Soil Conditions in Barrax, Spain. IEEE Transactions on Geoscience and Remote Sensing, 2012, 50, 1057-1070.	6.3	102
78	Body Sensors and Healthcare Monitoring. Advances in Healthcare Information Systems and Administration Book Series, 2012, , 26-55.	0.2	0
79	Energy-Efficiency Analysis of a Distributed Queuing Medium Access Control Protocol for Biomedical Wireless Sensor Networks in Saturation Conditions. Sensors, 2011, 11, 1277-1296.	3.8	15
80	Multioutput Support Vector Regression for Remote Sensing Biophysical Parameter Estimation. IEEE Geoscience and Remote Sensing Letters, 2011, 8, 804-808.	3.1	235
81	Regularized Multiresolution Spatial Unmixing for ENVISAT/MERIS and Landsat/TM Image Fusion. IEEE Geoscience and Remote Sensing Letters, 2011, 8, 844-848.	3.1	35
82	Gridding Artifacts on Medium-Resolution Satellite Image Time Series: MERIS Case Study. IEEE Transactions on Geoscience and Remote Sensing, 2011, 49, 2601-2611.	6.3	21
83	Multitemporal fusion of Landsat and MERIS images. , 2011, , .		2
84	Evaluation of Sentinel-2 Red-Edge Bands for Empirical Estimation of Green LAI and Chlorophyll Content. Sensors, 2011, 11, 7063-7081.	3.8	410
85	Affine Illumination Compensation on Hyperspectral/Multiangular Remote Sensing Images. Lecture Notes in Computer Science, 2011, , 360-369.	1.3	0
86	Multi-resolution spatial unmixing for MERIS and Landsat image fusion. , 2010, , .		5
87	Performance Analysis of a Cluster-Based MAC Protocol for Wireless Ad Hoc Networks. Eurasip Journal on Wireless Communications and Networking, 2010, 2010, .	2.4	10
88	Design and Analysis of an Energy-Saving Distributed MAC Mechanism for Wireless Body Sensor Networks. Eurasip Journal on Wireless Communications and Networking, 2010, 2010, .	2.4	20
89	Developments for vegetation fluorescence retrieval from spaceborne high-resolution spectrometry in the $O_2$ and $O_2$ absorption bands. Journal of Geophysical Research, 2010, 115, .	3.3	92
90	Estimating chlorophyll content of crops from hyperspectral data using a normalized area over reflectance curve (NAOC). International Journal of Applied Earth Observation and Geoinformation, 2010, 12, 165-174.	2.8	88

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91	CHRIS/Proba Toolbox for hyperspectral and multiangular data exploitations. , 2009, , .		6
92	Remote sensing of solar-induced chlorophyll fluorescence: Review of methods and applications. Remote Sensing of Environment, 2009, 113, 2037-2051.	11.0	640
93	Scene-based spectral calibration assessment of high spectral resolution imaging spectrometers. Optics Express, 2009, 17, 11594.	3.4	49
94	Highly reliable energy-saving mac for wireless body sensor networks in healthcare systems. IEEE Journal on Selected Areas in Communications, 2009, 27, 553-565.	14.0	159
95	CEFLES2: the remote sensing component to quantify photosynthetic efficiency from the leaf to the region by measuring sun-induced fluorescence in the oxygen absorption bands. Biogeosciences, 2009, 6, 1181-1198.	3.3	115
96	Improved Fraunhofer Line Discrimination Method for Vegetation Fluorescence Quantification. IEEE Geoscience and Remote Sensing Letters, 2008, 5, 620-624.	3.1	158
97	Correction of systematic spatial noise in push-broom hyperspectral sensors: application to CHRIS/PROBA images. Applied Optics, 2008, 47, F46.	2.1	78
98	Cross-layer enhancement for wlan systems with heterogeneous traffic based on DQCA. , 2008, 46, 60-66.		13
99	A near-optimum cross-layered distributed queuing protocol for wireless LAN. IEEE Wireless Communications, 2008, 15, 48-55.	9.0	44
100	Evaluation of remote sensing of vegetation fluorescence by the analysis of diurnal cycles. International Journal of Remote Sensing, 2008, 29, 5423-5436.	2.9	59
101	Sensitivity analysis of the fraunhofer line discrimination method for the measurement of chlorophyll fluorescence using a field spectroradiometer. , 2007, , .		15
102	Remote sensing of chlorophyll fluorescence for estimation of stress in vegetation. recommendations for future missions. , 2007, , .		3
103	Estimation of solar-induced vegetation fluorescence from space measurements. Geophysical Research Letters, 2007, 34, .	4.0	118
104	Study of the diurnal cycle of stressed vegetation for the improvement of fluorescence remote sensing. , 2006, 6359, 156.		7
105	Modelling spatial and spectral systematic noise patterns on CHRIS/PROBA hyperspectral data. , 2006, , .		2
106	Multitemporal image classification and change detection with kernels. , 2006, 6365, 136.		6
107	New Cloud Detection Algorithm for Multispectral and Hyperspectral Images: Application to ENVISAT/MERIS and PROBA/CHRIS Sensors. , 2006, , .		14
108	Remote sensing of sunlight-induced chlorophyll fluorescence and reflectance of Scots pine in the boreal forest during spring recovery. Remote Sensing of Environment, 2005, 96, 37-48.	11.0	98

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109	A method for the surface reflectance retrieval from PROBA/CHRIS data over land: application to ESA SPARC campaigns. IEEE Transactions on Geoscience and Remote Sensing, 2005, 43, 2908-2917.	6.3	90
110	Cloud detection for CHRIS/Proba hyperspectral images. , 2005, , .		9
111	First Results From the PROBA/CHRIS Hyperspectral/Multiangular Satellite System Over Land and Water Targets. IEEE Geoscience and Remote Sensing Letters, 2005, 2, 250-254.	3.1	30
112	Robust automatic classification method for hyperspectral imagery. , 2004, 5238, 398.		1
113	Robust support vector method for hyperspectral data classification and knowledge discovery. IEEE Transactions on Geoscience and Remote Sensing, 2004, 42, 1530-1542.	6.3	236
114	<title>Methodology for quantitative analysis of scaling effects in multiresolution datasets acquired with airborne sensors flying at different altitude levels</title>. , 2001, 4170, 73.		0
115	<title>Direct gradient analysis as a new tool for interpretation of hyperspectral remote sensing data: application to HYMAP/DAISEX-99 data</title>. , 2001, 4171, 229.		0