Juan M. Lopez-Sanchez

List of Publications by Year in descending order

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94433 128289 4,150 136 37 60 citations h-index g-index papers 136 136 136 3006 docs citations citing authors all docs times ranked

#	Article	IF	CITATIONS
1	Impact of SAR Image Resolution on Polarimetric Persistent Scatterer Interferometry With Amplitude Dispersion Optimization. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-10.	6.3	5
2	Thermal Noise Removal From Polarimetric Sentinel-1 Data. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	3.1	14
3	Application of the Trace Coherence to HH-VV PollnSAR TanDEM-X Data for Vegetation Height Estimation. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-10.	6.3	2
4	Model-Based Decomposition of Dual-Pol SAR Data: Application to Sentinel-1. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-19.	6.3	19
5	VallnSAR: A Systematic Approach for the Validation of Differential SAR Interferometry in Land Subsidence Areas. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2022, 15, 3650-3671.	4.9	2
6	Evaluation of PolInSAR Observables for Crop-Type Mapping Using Bistatic TanDEM-X Data. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	3.1	0
7	Crop Classification Based on the Physically Constrained General Model-Based Decomposition Using Multi-Temporal RADARSAT-2 Data. Remote Sensing, 2022, 14, 2668.	4.0	7
8	Canopy Height Estimation in Mediterranean Forests of Spain With TanDEM-X Data. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 2956-2970.	4.9	16
9	A Review of Crop Height Retrieval Using InSAR Strategies: Techniques and Challenges. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 7911-7930.	4.9	8
10	Crop Height Estimation of Corn from Multi-Year RADARSAT-2 Polarimetric Observables Using Machine Learning. Remote Sensing, 2021, 13, 392.	4.0	16
11	Synergistic Use of TanDEM-X and Landsat-8 Data for Crop-Type Classification and Monitoring. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 8744-8760.	4.9	5
12	Crop Monitoring and Classification Using Polarimetric RADARSAT-2 Time-Series Data Across Growing Season: A Case Study in Southwestern Ontario, Canada. Remote Sensing, 2021, 13, 1394.	4.0	21
13	Rice phenology mapping using novel target characterization parameters from polarimetric SAR data. International Journal of Remote Sensing, 2021, 42, 5515-5539.	2.9	16
14	Dual-polarimetric descriptors from Sentinel-1 GRD SAR data for crop growth assessment. ISPRS Journal of Photogrammetry and Remote Sensing, 2021, 178, 20-35.	11.1	34
15	Soil moisture retrieval over agricultural fields from L-band multi-incidence and multitemporal PolSAR observations using polarimetric decomposition techniques. Remote Sensing of Environment, 2021, 261, 112485.	11.0	30
16	Contribution of Polarimetry and Multi-Incidence to Soil Moisture Estimation Over Agricultural Fields Based on Time Series of L-Band SAR Data. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 300-313.	4.9	4
17	Impact of SAR Image Resolution on the Performance of the Amplitude Dispersion Optimization for Polarimetric Persistent Scatterer Interferometry., 2021,,.		O
18	Fusion of Multi-Temporal PAZ and Sentinel-1 Data for Crop Classification. Remote Sensing, 2021, 13, 3915.	4.0	2

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19	Optimal Grid-Based Filtering for Crop Phenology Estimation with Sentinel-1 SAR Data. Remote Sensing, 2021, 13, 4332.	4.0	3
20	Multitemporal Polarimetric SAR Change Detection for Crop Monitoring and Crop Type Classification. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 12361-12374.	4.9	14
21	Added Value of Coherent Copolar Polarimetry at X-Band for Crop-Type Mapping. IEEE Geoscience and Remote Sensing Letters, 2020, 17, 819-823.	3.1	9
22	Assessment of rice growth conditions in a semi-arid region of India using the Generalized Radar Vegetation Index derived from RADARSAT-2 polarimetric SAR data. Remote Sensing of Environment, 2020, 237, 111561.	11.0	32
23	Time-Series of Sentinel-1 Interferometric Coherence and Backscatter for Crop-Type Mapping. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2020, 13, 4070-4084.	4.9	63
24	Spatial Analysis of Land Subsidence in the San Luis Potosi Valley Induced by Aquifer Overexploitation Using the Coherent Pixels Technique (CPT) and Sentinel-1 InSAR Observation. Remote Sensing, 2020, 12, 3822.	4.0	15
25	Novel clustering schemes for full and compact polarimetric SAR data: An application for rice phenology characterization. ISPRS Journal of Photogrammetry and Remote Sensing, 2020, 169, 135-151.	11.1	23
26	Dual polarimetric radar vegetation index for crop growth monitoring using sentinel-1 SAR data. Remote Sensing of Environment, 2020, 247, 111954.	11.0	171
27	Estimation of RVoG Scene Parameters by Means of PollnSAR With TanDEM-X Data: Effect of the Double-Bounce Contribution. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 7283-7304.	6.3	7
28	Exploring TanDEM-X Interferometric Products for Crop-Type Mapping. Remote Sensing, 2020, 12, 1774.	4.0	21
29	Sentinel-1 InSAR Coherence for Land Cover Mapping: A Comparison of Multiple Feature-Based Classifiers. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2020, 13, 535-552.	4.9	64
30	Crop biophysical parameter retrieval from Sentinel-1 SAR data with a multi-target inversion of Water Cloud Model. International Journal of Remote Sensing, 2020, 41, 5503-5524.	2.9	32
31	Comparing Insar Methodologies for the Retrieval of Paddy Rice Height with TanDEM-X Data. , 2020, , .		O
32	Multi-Temporal Dual- and Quad-Polarimetric Synthetic Aperture Radar Data for Crop-Type Mapping. Remote Sensing, 2019, 11, 1518.	4.0	17
33	Semi-Automatic Identification and Pre-Screening of Geological–Geotechnical Deformational Processes Using Persistent Scatterer Interferometry Datasets. Remote Sensing, 2019, 11, 1675.	4.0	49
34	Selection of PolSAR Observables for Crop Biophysical Variable Estimation With Global Sensitivity Analysis. IEEE Geoscience and Remote Sensing Letters, 2019, 16, 766-770.	3.1	17
35	On the Use of Neumann Decomposition for Crop Classification Using Multi-Temporal RADARSAT-2 Polarimetric SAR Data. Remote Sensing, 2019, 11, 776.	4.0	25
36	An Improved Phase Filter for Differential SAR Interferometry Based on an Iterative Method. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 4477-4491.	6.3	15

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37	Global Sensitivity Analysis of Polarimetric Data to Retrieve Biophysical Parameters of Canola and Barley Crops., 2018,,.		O
38	Influence of Incidence Angle in the Correlation of C-band Polarimetric Parameters with Biophysical Variables of Rain-fed Crops. Canadian Journal of Remote Sensing, 2018, 44, 643-659.	2.4	9
39	Effect of the Double-Bounce Contribution in Polinsar-Based Height Estimates of Rice Crops Using Tandem-X Bistatic Data. , 2018, , .		1
40	Iterative Filtering Based on Adaptive Chebyshev Kernel Functions for Noise Suppression in Differential SAR Interferograms. , 2018, , .		0
41	Monitoring Agricultural Fields Using an Optimisation of the Difference of Covariance Matrices for Polsar., 2018,,.		5
42	A Novel Phenology Based Feature Subset Selection Technique Using Random Forest for Multitemporal PolSAR Crop Classification. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2018, 11, 4244-4258.	4.9	46
43	A Modified General Polarimetric Model-Based Decomposition Method With the Simplified Neumann Volume Scattering Model. IEEE Geoscience and Remote Sensing Letters, 2018, 15, 1229-1233.	3.1	15
44	A New Polarimetric Persistent Scatterer Interferometry Method Using Temporal Coherence Optimization. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 6547-6555.	6.3	20
45	Evaluation of the Multilook Size in Polarimetric Optimization of Differential SAR Interferograms. IEEE Geoscience and Remote Sensing Letters, 2018, 15, 1407-1411.	3.1	2
46	Retrieval of vegetation height in rice fields using polarimetric SAR interferometry with TanDEM-X data. Remote Sensing of Environment, 2017, 192, 30-44.	11.0	59
47	Interferometric SAR for characterization of wetland lakes as a function of suspending sediment cover and depth. , 2017, , .		O
48	A Modified Dual-Baseline PollnSAR Method for Forest Height Estimation. Remote Sensing, 2017, 9, 819.	4.0	29
49	Special Issue on Polarimetric SAR Techniques and Applications. Applied Sciences (Switzerland), 2017, 7, 768.	2.5	2
50	On the Use of Generalized Volume Scattering Models for the Improvement of General Polarimetric Model-Based Decomposition. Remote Sensing, 2017, 9, 117.	4.0	26
51	Particle Filter Approach for Real-Time Estimation of Crop Phenological States Using Time Series of NDVI Images. Remote Sensing, 2016, 8, 610.	4.0	22
52	Quantitative Analysis of Polarimetric Model-Based Decomposition Methods. Remote Sensing, 2016, 8, 977.	4.0	23
53	Sar algorithms for crop height estimation: The paddy-rice case study. , 2016, , .		1
54	Contribution to Real-Time Estimation of Crop Phenological States in a Dynamical Framework Based on NDVI Time Series: Data Fusion With SAR and Temperature. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 3512-3523.	4.9	33

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55	Retrieval of agricultural crop height from space: A comparison of SARÂtechniques. Remote Sensing of Environment, 2016, 187, 130-144.	11.0	80
56	A Complete Procedure for Crop Phenology Estimation With PolSAR Data Based on the Complex Wishart Classifier. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 6505-6515.	6.3	46
57	Using wavelet tools to analyse seasonal variations from InSAR time-series data: a case study of the Huangtupo landslide. Landslides, 2016, 13, 437-450.	5.4	99
58	Particle filter approach for crop phenological stage estimation using time series of NDVI images. , 2015, , .		6
59	An optimal combination of a hydrological model and PSI to estimate land subsidence driven by piezometric level changes., 2015,,.		1
60	PolSAR-Ap: Exploitation of fully polarimetric SAR data for application demonstration., 2015,,.		4
61	Estimation of Key Dates and Stages in Rice Crops Using Dual-Polarization SAR Time Series and a Particle Filtering Approach. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2015, 8, 1008-1018.	4.9	44
62	Retrieval of phenological stages of onion fields during the first year of growth by means of C-band polarimetric SAR measurements. International Journal of Remote Sensing, 2015, 36, 3077-3096.	2.9	17
63	A Simple RVoG Test for PolInSAR Data. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2015, 8, 1028-1040.	4.9	18
64	Dynamical Approach for Real-Time Monitoring of Agricultural Crops. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 3278-3293.	6.3	39
65	Influence of Incidence Angle on the Coherent Copolar Polarimetric Response of Rice at X-Band. IEEE Geoscience and Remote Sensing Letters, 2015, 12, 249-253.	3.1	24
66	Radar interferometry techniques for the study of ground subsidence phenomena: a review of practical issues through cases in Spain. Environmental Earth Sciences, 2014, 71, 163-181.	2.7	135
67	Crop Phenology Estimation Using a Multitemporal Model and a Kalman Filtering Strategy. IEEE Geoscience and Remote Sensing Letters, 2014, 11, 1081-1085.	3.1	56
68	Polarimetric Response of Rice Fields at C-Band: Analysis and Phenology Retrieval. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 2977-2993.	6.3	138
69	Spatial Adaptive Speckle Filtering Driven by Temporal Polarimetric Statistics and Its Application to PSI. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 4548-4557.	6.3	32
70	Polarimetric Approaches for Persistent Scatterers Interferometry. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 1667-1676.	6.3	51
71	Monitoring an earthfill dam using differential SAR interferometry: La Pedrera dam, Alicante, Spain. Engineering Geology, 2013, 157, 21-32.	6.3	55
72	A New Polarimetric Change Detector in Radar Imagery. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 2986-3000.	6.3	66

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73	POLARIMETRIC SAR MODEL FOR SOIL MOISTURE ESTIMATION OVER VINEYARDS AT C-BAND. Progress in Electromagnetics Research, 2013, 142, 639-665.	4.4	15
74	Incoherent electromagnetic model for vineyards at C-band., 2012,,.		0
75	Experimental validation of the interferometric coherence formulation in single-transmit mode. , 2012, , .		2
76	Improvement of Persistent-Scatterer Interferometry Performance by Means of a Polarimetric Optimization. IEEE Geoscience and Remote Sensing Letters, 2012, 9, 609-613.	3.1	44
77	Analysis of the polarimetric response of vineyards at C-band. Canadian Journal of Remote Sensing, 2012, 38, 223-239.	2.4	6
78	Rice Phenology Monitoring by Means of SAR Polarimetry at X-Band. IEEE Transactions on Geoscience and Remote Sensing, 2012, 50, 2695-2709.	6.3	192
79	Forensic analysis of buildings affected by mining subsidence based on Differential Interferometry (Part III). Engineering Failure Analysis, 2012, 24, 67-76.	4.0	25
80	Time Series of Hybrid-Polarity Parameters Over Agricultural Crops. IEEE Geoscience and Remote Sensing Letters, 2012, 9, 139-143.	3.1	26
81	First Demonstration of Agriculture Height Retrieval With PollnSAR Airborne Data. IEEE Geoscience and Remote Sensing Letters, 2012, 9, 242-246.	3.1	55
82	Identification of potential subsidence related to pumping in the AlmerÃa basin (SE Spain). Hydrological Processes, 2012, 26, 731-740.	2.6	16
83	On the potential of TanDEM-X for the retrieval of agriculture crop parameters by single-pass PollnSAR. , 2011, , .		1
84	Monitoring and retrieving rice phenology by means of satellite SAR polarimetry at X-band. , 2011, , .		2
85	A deep seated compound rotational rock slide and rock spread in SE Spain: Structural control and DInSAR monitoring. Geomorphology, 2011, 129, 252-262.	2.6	33
86	First Results of Rice Monitoring Practices in Spain by Means of Time Series of TerraSAR-X Dual-Pol Images. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2011, 4, 412-422.	4.9	107
87	Combination of Direct and Double-Bounce Ground Responses in the Homogeneous Oriented Volume Over Ground Model. IEEE Geoscience and Remote Sensing Letters, 2011, 8, 54-58.	3.1	19
88	Subsidence monitoring using polarimetric persistent scatterers interferometry. , 2011, , .		4
89	Test of equi-scattering mechanisms for POLInSAR applications with TanDEM-X. , 2011, , .		1
90	A ground subsidence study based on DInSAR data: Calibration of soil parameters and subsidence prediction in Murcia City (Spain). Engineering Geology, 2010, 111, 19-30.	6.3	68

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91	A Contribution of Polarimetry to Satellite Differential SAR Interferometry: Increasing the Number of Pixel Candidates. IEEE Geoscience and Remote Sensing Letters, 2010, 7, 276-280.	3.1	63
92	Mapping ground movements in open pit mining areas using differential SAR interferometry. International Journal of Rock Mechanics and Minings Sciences, 2010, 47, 1114-1125.	5. 8	58
93	Study of the land subsidence in Orihuela City (SE Spain) using PSI data: Distribution, evolution and correlation with conditioning and triggering factors. Engineering Geology, 2010, 115, 105-121.	6. 3	39
94	Analysis of subsidence using TerraSAR-X data: Murcia case study. Engineering Geology, 2010, 116, 284-295.	6.3	62
95	Application of TerraSAR-X data to the monitoring of urban subsidence in the city of Murcia. , 2010, , .		3
96	Applying the Freeman–Durden Decomposition Concept to Polarimetric SAR Interferometry. IEEE Transactions on Geoscience and Remote Sensing, 2010, 48, 466-479.	6.3	69
97	Numerical Simulation of the Full-Polarimetric Emissivity of Vines and Comparison with Experimental Data. Remote Sensing, 2009, 1, 300-317.	4.0	4
98	Determination of scattering mechanisms inside rice plants by means of PCT and high resolution radar imaging. , 2009, , .		2
99	A Particle Filter Approach for InSAR Phase Filtering and Unwrapping. IEEE Transactions on Geoscience and Remote Sensing, 2009, 47, 1197-1211.	6. 3	67
100	An Optimized Algorithm for InSAR Phase Unwrapping Based on Particle Filtering, Matrix Pencil, and Region-Growing Techniques. IEEE Geoscience and Remote Sensing Letters, 2009, 6, 835-839.	3.1	15
101	Validation and comparison of Advanced Differential Interferometry Techniques: Murcia metropolitan area case study. ISPRS Journal of Photogrammetry and Remote Sensing, 2009, 64, 501-512.	11.1	44
102	Time series of polarimetric and interferometric observations of TerraSAR-X data over rice fields in Spain. , 2009, , .		0
103	Potentials of polarimetric SAR interferometry for agriculture monitoring. Radio Science, 2009, 44, .	1.6	55
104	A combination of particle filter, matrix pencil and region growing techniques for phase unwrapping in SAR interferometry. , 2009, , .		0
105	Using a Grid-Based Filter to Solve InSAR Phase Unwrapping. IEEE Geoscience and Remote Sensing Letters, 2008, 5, 147-151.	3.1	17
106	Microwave Scattering Profiles of a Rice Sample by Means of Polarization Coherence Tomography. , 2008, , .		3
107	InSAR Phase Unwrapping by Means of a Particle Filter. , 2008, , .		1
108	DInSAR monitoring of land subsidence in Orihuela City, Spain: Comparison with geotechnical data. , 2007, , .		3

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109	Volume and double-bounce decorrelation effects in the OVoG model for Single-Tx PolInSAR., 2007,,.		О
110	Image coregistration in SAR interferometry only by means of arithmetic operations. , 2007, , .		0
111	Coherence Loci for a Homogeneous Volume Over a Double-Bounce Ground Return. IEEE Geoscience and Remote Sensing Letters, 2007, 4, 317-321.	3.1	23
112	Model Limitations and Parameter-Estimation Methods for Agricultural Applications of Polarimetric SAR Interferometry. IEEE Transactions on Geoscience and Remote Sensing, 2007, 45, 3481-3493.	6.3	49
113	Efficient Interpolation of SAR Images for Coregistration in SAR Interferometry. IEEE Geoscience and Remote Sensing Letters, 2007, 4, 411-415.	3.1	9
114	Introduction of a grid-based filter approach for InSAR phase filtering and unwrapping., 2007,,.		3
115	Advanced DInSAR analysis on mining areas: La Union case study (Murcia, SE Spain). Engineering Geology, 2007, 90, 148-159.	6.3	164
116	Indoor wide-band polarimetric measurements on maize plants: a study of the differential extinction coefficient. IEEE Transactions on Geoscience and Remote Sensing, 2006, 44, 758-767.	6.3	22
117	Complete Inversion of Agricultural Vegetation Parameters by Pol-InSAR: Multibaseline and .k-radar Approaches. , 2006, , .		0
118	Segura River Aquifer (SE Spain) Obtained by Means of Advanced DInSAR. , 2006, , .		2
119	Retrieval of biophysical parameters of agricultural crops using polarimetric SAR interferometry. IEEE Transactions on Geoscience and Remote Sensing, 2005, 43, 683-694.	6.3	78
120	Mapping ground subsidence induced by aquifer overexploitation using advanced Differential SAR Interferometry: Vega Media of the Segura River (SE Spain) case study. Remote Sensing of Environment, 2005, 98, 269-283.	11.0	108
121	Nonuniform FFTs (NUFFT) algorithms applied to SAR imaging. , 2004, 5236, 72.		7
122	Electromagnetic model of rice crops for wideband POLINSAR. , 2004, 5232, 635.		0
123	Extension of the chirp scaling algorithm to 3-D near-field wideband radar imaging. IET Radar, Sonar & Navigation, 2003, 150, 152.	2.1	9
124	Annth-order expression of the frequency domain impulse response of a synthetic aperture system and its applications. Microwave and Optical Technology Letters, 2003, 36, 289-292.	1.4	0
125	<title>Near-field wideband 2D and 3D radar imaging using an extended chirp scaling algorithm</title> ., 2002, 4543, 198.		0
126	Buried Mine Detection by Polarimetric Radar Interferometry. , 2002, , 545-553.		1

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127	Polarimetric radar interferometry for improved mine detection and surface clutter rejection. IEEE Transactions on Geoscience and Remote Sensing, 2001, 39, 1271-1278.	6.3	14
128	Extension of the 3-D range migration algorithm to cylindrical and spherical scanning geometries. IEEE Transactions on Antennas and Propagation, 2001, 49, 1434-1444.	5.1	44
129	Indoor experiments on polarimetric SAR interferometry. IEEE Transactions on Geoscience and Remote Sensing, 2000, 38, 671-684.	6.3	38
130	Indoor Polarimetric Radar Measurements On Vegetation Samples At L, S, c aNd x band. Journal of Electromagnetic Waves and Applications, 2000, 14, 205-231.	1.6	16
131	3-D radar imaging using range migration techniques. IEEE Transactions on Antennas and Propagation, 2000, 48, 728-737.	5.1	372
132	Wide-band polarimetric radar inversion studies for vegetation layers. IEEE Transactions on Geoscience and Remote Sensing, 1999, 37, 2430-2441.	6.3	68
133	Wide Band Polarimetric Interferometry for DEM Improvement and Retrieval of Vegetation Height. , 1999, , .		O
134	An electromagnetic scattering model for multiple tree trunks above a tilted rough ground plane. IEEE Transactions on Geoscience and Remote Sensing, 1999, 37, 659-667.	6.3	19
135	Advances in polinsar retrieval algorithms of agricultural crops. , 0, , .		1
136	NEW MICROWAVE-BASED MISSIONS APPLICATIONS FOR RAINFED CROPS CHARACTERIZATION. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLI-B1, 101-107.	0.2	0