

Xavier Fabregas

List of Publications by Year in descending order

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46
papers

1,204
citations

430874

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414414

32
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46
times ranked

928
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydrosoil, Soil Moisture and Vegetation Parameters Retrieval with a C-Band GB-SAR: Campaign Implementation and First Results. , 2021, , .		2
2	Impact of Wind-Induced Scatterers Motion on GB-SAR Imaging. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2018, 11, 3757-3768.	4.9	7
3	Multi-technique approach to rockfall monitoring in the Montserrat massif (Catalonia, NE Spain). Engineering Geology, 2017, 219, 4-20.	6.3	41
4	PSI Deformation Map Retrieval by Means of Temporal Sublook Coherence on Reduced Sets of SAR Images. Remote Sensing, 2015, 7, 530-563.	4.0	41
5	Polarimetric Optimization of Temporal Sublook Coherence for DInSAR Applications. IEEE Geoscience and Remote Sensing Letters, 2015, 12, 87-91.	3.1	21
6	Ground-Based Polarimetric SAR Interferometry for the Monitoring of Terrain Displacement Phenomenaâ€“Part I: Theoretical Description. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, , 1-1.	4.9	24
7	Ground-Based Polarimetric SAR Interferometry for the Monitoring of Terrain Displacement Phenomenaâ€“Part II: Applications. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, , 1-14.	4.9	23
8	Phase Quality Optimization in Polarimetric Differential SAR Interferometry. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 2875-2888.	6.3	41
9	Perturbation Analysis of Eigenvector-Based Target Decomposition Theorems in Radar Polarimetry. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 2081-2095.	6.3	13
10	Atmospheric Phase Screen Compensation in Ground-Based SAR With a Multiple-Regression Model Over Mountainous Regions. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 2436-2449.	6.3	94
11	Polarimetric Temporal Analysis of Urban Environments With a Ground-Based SAR. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 2343-2360.	6.3	31
12	ARBRES: Light-Weight CW/FM SAR Sensors for Small UAVs. Sensors, 2013, 13, 3204-3216.	3.8	38
13	Phase quality optimization in Orbital Differential SAR Interferometry with fully polarimetric data. , 2012, , .		4
14	Landslide monitoring with spotlight TerraSAR-X DATA. , 2012, , .		2
15	Polarimetric optimization for DInSAR pixel selection with ground-based SAR. , 2012, , .		1
16	Transpolarizing Trihedral Corner Reflector Characterization Using a GB-SAR System. IEEE Geoscience and Remote Sensing Letters, 2011, 8, 774-778.	3.1	9
17	Forest parameter estimation in the Pol-InSAR context employing the multiplicativeâ€“additive speckle noise model. ISPRS Journal of Photogrammetry and Remote Sensing, 2011, 66, 597-607.	11.1	12
18	Ground topography estimation over forests considering Polarimetric SAR Interferometry. , 2010, , .		10

#	ARTICLE	IF	CITATIONS
19	Analysis of Wind Turbines Blockage on Doppler Weather Radar Beams. IEEE Antennas and Wireless Propagation Letters, 2010, 9, 670-673.	4.0	19
20	Polarimetric coherence optimization for interferometric differential applications. , 2009, , .		11
21	PolSAR and PolInSAR model based information estimation. , 2009, , .		3
22	Transpolarizing trihedral measurement using UPC X-band GB-SAR. , 2009, , .		0
23	UWB Tomographic Radar Imaging of Penetrable and Impenetrable Objects. Proceedings of the IEEE, 2009, 97, 451-464.	21.3	44
24	Polarimetric Differential SAR Interferometry: First Results With Ground-Based Measurements. IEEE Geoscience and Remote Sensing Letters, 2009, 6, 167-171.	3.1	64
25	Atmospheric Artifact Compensation in Ground-Based DInSAR Applications. IEEE Geoscience and Remote Sensing Letters, 2008, 5, 88-92.	3.1	84
26	Model-Based Polarimetric SAR Speckle Filter. IEEE Transactions on Geoscience and Remote Sensing, 2008, 46, 3894-3907.	6.3	64
27	Analysis and improvement of polarimetric calibration techniques. , 2007, , .		3
28	Polarimetric temporal information for urban deformation map retrieval. , 2007, , .		3
29	Single-Pass Polarimetric SAR Interferometry for Vessel Classification. IEEE Transactions on Geoscience and Remote Sensing, 2007, 45, 3494-3502.	6.3	60
30	Polarimetric Temporal Decorrelation Studies by Means of GBSAR Sensor Data. , 2006, , .		1
31	Polarimetric speckle noise effects in quantitative physical parameters retrieval. IET Radar, Sonar & Navigation, 2006, 153, 250.	2.1	19
32	A Comparison of Different Techniques for Atmospheric Artefact Compensation in GBSAR Differential Acquisitions. , 2006, , .		17
33	Multidimensional Speckle Noise Model. Eurasip Journal on Advances in Signal Processing, 2005, 2005, 1.	1.7	7
34	Wavelet transform-based interferometric SAR coherence estimator. IEEE Signal Processing Letters, 2005, 12, 831-834.	3.6	16
35	Polarimetric sar speckle noise model. IEEE Transactions on Geoscience and Remote Sensing, 2003, 41, 2232-2242.	6.3	141
36	Maximum-likelihood estimation of specific differential phase and attenuation in rain. IEEE Transactions on Geoscience and Remote Sensing, 2003, 41, 2771-2782.	6.3	1

#	ARTICLE	IF	CITATIONS
37	SAR interferometric phase statistics in wavelet domain. Electronics Letters, 2002, 38, 1207.	1.0	4
38	Buried Mine Detection by Polarimetric Radar Interferometry. , 2002, , 545-553.		1
39	Modeling and reduction of SAR interferometric phase noise in the wavelet domain. IEEE Transactions on Geoscience and Remote Sensing, 2002, 40, 2553-2566.	6.3	124
40	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
41	<title>Crop height monitoring and surface parameter estimating using polarimetric and interferometric radar techniques</title>. , 2001, , .		0
42	Sar Interferometric Coherence in Wide Band Systems. Journal of Electromagnetic Waves and Applications, 2000, 14, 185-203.	1.6	2
43	High-speed focusing algorithm for circular synthetic aperture radar (C-SAR). Electronics Letters, 2000, 36, 828.	1.0	14
44	Indoor experiments on polarimetric SAR interferometry. IEEE Transactions on Geoscience and Remote Sensing, 2000, 38, 671-684.	6.3	38
45	Circular synthetic aperture radar (C-SAR) system for ground-based applications. Electronics Letters, 1997, 33, 988.	1.0	25
46	Target spinor calibration (TSC) for polarimetric radar cross-section measurements. Electronics Letters, 1995, 31, 1694-1695.	1.0	11