

Mercedes Solla

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

65 papers	1,164 citations	21 h-index	30 g-index
70 ext. papers	1,457 ext. citations	4.2 avg, IF	4.89 L-index

#	Paper	IF	Citations
65	Approach to identify cracking in asphalt pavement using GPR and infrared thermographic methods: Preliminary findings. <i>NDT and E International</i> , 2014 , 62, 55-65	4.1	76
64	Structural assessment of masonry arch bridges by combination of non-destructive testing techniques and three-dimensional numerical modelling: Application to Vilanova bridge. <i>Engineering Structures</i> , 2017 , 148, 621-638	4.7	61
63	Multidisciplinary approach to the assessment of historic structures based on the case of a masonry bridge in Galicia (Spain). <i>Computers and Structures</i> , 2011 , 89, 1615-1627	4.5	47
62	GPR Signal Characterization for Automated Landmine and UXO Detection Based on Machine Learning Techniques. <i>Remote Sensing</i> , 2014 , 6, 9729-9748	5	45
61	Ground-penetrating radar for the structural evaluation of masonry bridges: Results and interpretational tools. <i>Construction and Building Materials</i> , 2012 , 29, 458-465	6.7	43
60	3D GPR in forensics: Finding a clandestine grave in a mountainous environment. <i>Forensic Science International</i> , 2011 , 204, 134-8	2.6	43
59	Modelling and strength evaluation of masonry bridges using terrestrial photogrammetry and finite elements. <i>Advances in Engineering Software</i> , 2016 , 101, 136-148	3.6	40
58	GPR evaluation of the Roman masonry arch bridge of Lugo (Spain). <i>NDT and E International</i> , 2011 , 44, 8-12	4.1	37
57	Non-destructive methodologies in the assessment of the masonry arch bridge of Traba, Spain. <i>Engineering Failure Analysis</i> , 2011 , 18, 828-835	3.2	34
56	Assessing the pavement subgrade by combining different non-destructive methods. <i>Construction and Building Materials</i> , 2017 , 135, 76-85	6.7	33
55	A Review of GPR Application on Transport Infrastructures: Troubleshooting and Best Practices. <i>Remote Sensing</i> , 2021 , 13, 672	5	33
54	A novel approach to evaluate masonry arch stability on the basis of limit analysis theory and non-destructive geometric characterization. <i>Automation in Construction</i> , 2013 , 31, 140-148	9.6	30
53	Three-dimensional ground-penetrating radar methodologies for the characterization and volumetric reconstruction of underground tunneling. <i>Construction and Building Materials</i> , 2014 , 71, 551-560	6.7	28
52	Evaluation of a highway pavement using non-destructive tests: Falling Weight Deflectometer and Ground Penetrating Radar. <i>Construction and Building Materials</i> , 2017 , 154, 1164-1172	6.7	28
51	NDT Documentation and Evaluation of the Roman Bridge of Lugo Using GPR and Mobile and Static LiDAR. <i>Journal of Performance of Constructed Facilities</i> , 2015 , 29, 06014004	2	26
50	Evaluation of historical bridges through recreation of GPR models with the FDTD algorithm. <i>NDT and E International</i> , 2016 , 77, 19-27	4.1	25
49	A semi-automatic processing and visualisation tool for ground-penetrating radar pavement thickness data. <i>Automation in Construction</i> , 2014 , 45, 42-49	9.6	25

48	A novel methodology for the structural assessment of stone arches based on geometric data by integration of photogrammetry and ground-penetrating radar. <i>Engineering Structures</i> , 2012 , 35, 296-306	4.7	25
47	Assessing Rebar Corrosion through the Combination of Nondestructive GPR and IRT Methodologies. <i>Remote Sensing</i> , 2019 , 11, 1705	5	24
46	An experimental and numerical approach to combine Ground Penetrating Radar and computational modeling for the identification of early cracking in cement concrete pavements. <i>NDT and E International</i> , 2020 , 115, 102293	4.1	23
45	Joint use of GPR, IRT and TLS techniques for the integral damage detection in paving. <i>Construction and Building Materials</i> , 2018 , 174, 749-760	6.7	21
44	Ancient Stone Bridge Surveying by Ground-Penetrating Radar and Numerical Modeling Methods. <i>Journal of Bridge Engineering</i> , 2014 , 19, 110-119	2.7	20
43	Uncertainty evaluation of the 1GHz GPR antenna for the estimation of concrete asphalt thickness. <i>Measurement: Journal of the International Measurement Confederation</i> , 2013 , 46, 3032-3040	4.6	19
42	Ground-penetrating radar assessment of the medieval arch bridge of San Ant�n, Galicia, Spain. <i>Archaeological Prospection</i> , 2010 , 17, 223-232	1.8	19
41	Efficient GPR data acquisition to detect underground pipes. <i>NDT and E International</i> , 2017 , 91, 22-31	4.1	18
40	Structural analysis of the Roman Bibei bridge (Spain) based on GPR data and numerical modelling. <i>Automation in Construction</i> , 2012 , 22, 334-339	9.6	18
39	Three-dimensional ground-penetrating radar strategies over an indoor archaeological site: Convent of Santo Domingo (Lugo, Spain). <i>Archaeological Prospection</i> , 2010 , 17, 213-222	1.8	18
38	Railway Track Condition Assessment at Network Level by Frequency Domain Analysis of GPR Data. <i>Remote Sensing</i> , 2018 , 10, 559	5	17
37	Non-destructive testing for the analysis of moisture in the masonry arch bridge of Lubians (Spain). <i>Structural Control and Health Monitoring</i> , 2013 , 20, n/a-n/a	4.5	17
36	IRT and GPR Techniques for Moisture Detection and Characterisation in Buildings. <i>Sensors</i> , 2020 , 20,	3.8	17
35	Validation of mobile LiDAR surveying for measuring pavement layer thicknesses and volumes. <i>NDT and E International</i> , 2013 , 60, 70-76	4.1	16
34	Searching for the remains of an Early Bronze Age city at Tell Qubr Abu al-Atiq (Syria) through archaeological investigations and GPR imaging. <i>Journal of Cultural Heritage</i> , 2014 , 15, 575-579	2.9	16
33	Application of non-destructive geomatic techniques and FDTD modeling to metrical analysis of stone blocks in a masonry wall. <i>Construction and Building Materials</i> , 2012 , 36, 14-19	6.7	15
32	From pseudo-3D to full-resolution GPR imaging of a complex Roman site. <i>Near Surface Geophysics</i> , 2012 , 10, 11-15	1.6	14
31	Assessing the Applicability of Ground-Penetrating Radar to Quality Control in Tunneling Construction. <i>Journal of Construction Engineering and Management - ASCE</i> , 2016 , 142, 06015006	4.2	13

30	Experimental forensic scenes for the characterization of ground-penetrating radar wave response. <i>Forensic Science International</i> , 2012 , 220, 50-8	2.6	13
29	Evaluation of the feasibility of Common Mid-Point approach for air-coupled GPR applied to road pavement assessment. <i>Measurement: Journal of the International Measurement Confederation</i> , 2018 , 128, 295-305	4.6	13
28	NDT assessment of rigid pavement damages with ground penetrating radar: laboratory and field tests. <i>International Journal of Pavement Engineering</i> , 2020 , 1-16	2.6	12
27	Comparison of different object-based classifications in LandsatTM images for the analysis of heterogeneous landscapes. <i>Measurement: Journal of the International Measurement Confederation</i> , 2017 , 97, 29-37	4.6	12
26	Signal-to-Noise Ratio dependence on Ground Penetrating Radar antenna frequency in the field of landmine and UXO detection. <i>Measurement: Journal of the International Measurement Confederation</i> , 2015 , 73, 24-32	4.6	12
25	Reconstructing the Roman Site Aquis Querquennis (Bande, Spain) from GPR, T-LiDAR and IRT Data Fusion. <i>Remote Sensing</i> , 2018 , 10, 379	5	12
24	A Building Information Modeling Approach to Integrate Geomatic Data for the Documentation and Preservation of Cultural Heritage. <i>Remote Sensing</i> , 2020 , 12, 4028	5	11
23	A full non-metallic trailer for GPR road surveys. <i>Journal of Applied Geophysics</i> , 2011 , 75, 490-497	1.7	11
22	Comparison between laser scanning, single-image rectification and ground-penetrating radar technologies in forensic science. <i>Measurement: Journal of the International Measurement Confederation</i> , 2012 , 45, 836-843	4.6	9
21	GPR monitoring for road transport infrastructure: A systematic review and machine learning insights. <i>Construction and Building Materials</i> , 2022 , 324, 126686	6.7	9
20	Combination of geophysical prospecting techniques into areas of high protection value: Identification of shallow volcanic structures. <i>Journal of Applied Geophysics</i> , 2014 , 109, 15-26	1.7	8
19	Ground Penetrating Radar Investigations in the Noble Hall of S� Carlos Theater in Lisbon, Portugal. <i>Surveys in Geophysics</i> , 2018 , 39, 1125-1147	7.6	8
18	Inspection Procedures for Effective GPR Surveying of Buildings. <i>Springer Transactions in Civil and Environmental Engineering</i> , 2015 , 97-123	0.4	5
17	Assessment of a concrete pre-stressed runway pavement with ground penetrating radar 2015 ,		4
16	Approach to generate 3D-printed terrain models using free software and open data sources: Application to military planning. <i>Computer Applications in Engineering Education</i> , 2020 , 28, 477-489	1.6	4
15	GPR for road inspection: Georeferencing and efficient approach to data processing and visualization 2014 ,		4
14	Semi-automatic land consolidation software based on geographic information systems. <i>Computers and Electronics in Agriculture</i> , 2013 , 97, 1-5	6.5	4
13	Ground-Penetrating Radar for Inspection of In-Road Structures and Data Interpretation by Numerical Modeling. <i>Journal of Construction Engineering and Management - ASCE</i> , 2013 , 139, 749-753	4.2	4

12	Masonry arch bridges evaluation by means of GPR 2010 ,		4
11	GPR analysis of a masonry arch for structural assessment 2011 ,		4
10	Imaging Thermal Anomalies in Hot Dry Rock Geothermal Systems from Near-Surface Geophysical Modelling. <i>Remote Sensing</i> , 2019 , 11, 675	5	3
9	A mobile android tool for simplified GPR data processing in construction applications. <i>Automation in Construction</i> , 2018 , 89, 170-182	9.6	3
8	Ground-penetrating radar for the evaluation and monitoring of transport infrastructures 2019 , 341-398		3
7	Combined approach of GPR and thermographic data through FDTD simulation to analyze masonry bridges: The evaluation of construction materials in a restored masonry arch bridge 2015 ,		2
6	GPR analysis to detect subsidence: a case study on a loaded reinforced concrete pavement. <i>International Journal of Pavement Engineering</i> , 1-15	2.6	1
5	Applications of GPR for Humanitarian Assistance and Security. <i>Springer Transactions in Civil and Environmental Engineering</i> , 2015 , 301-326	0.4	0
4	Applications of GPR in Association with Other Non-destructive Testing Methods in Surveying of Transport Infrastructures. <i>Springer Transactions in Civil and Environmental Engineering</i> , 2015 , 327-342	0.4	0
3	GPR Application on Geothermal Studies: The Case Study of the Thermal Baths of San Xusto (Pontevedra, Spain). <i>Remote Sensing</i> , 2022 , 14, 2667	5	0
2	Experiences of Inclusive Teaching of Graphic Expression in the Context of Mechanical Engineering. <i>Proceedings (mdpi)</i> , 2018 , 2, 1337	0.3	
1	Transport infrastructures assessment using multiple GPR configurations and FWD. <i>MATEC Web of Conferences</i> , 2018 , 211, 12005	0.3	