

# Margarita Gonzalez

## List of Publications by Year in descending order

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Version: 2024-02-01

31  
papers

582  
citations

567281

15  
h-index

610901

24  
g-index

31  
all docs

31  
docs citations

31  
times ranked

596  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | A full-scale experimental study of sub-slab pressure fields induced by underground perforated pipes as a soil depressurisation technique in radon mitigation. <i>Journal of Environmental Radioactivity</i> , 2020, 225, 106420. | 1.7 | 3         |
| 2  | Influence of environmental conditions on concrete manufactured with recycled and steel slag aggregates at early ages and long term. <i>Construction and Building Materials</i> , 2020, 249, 118739.                              | 7.2 | 19        |
| 3  | A system designed to monitor in-situ the curing process of sprayed concrete. <i>Construction and Building Materials</i> , 2019, 224, 823-834.  | 7.2 | 4         |
| 4  | Microwire-Based Sensor Array for Measuring Wheel Loads of Vehicles. <i>Sensors</i> , 2019, 19, 4658.   | 3.8 | 9         |
| 5  | A Multisensor System for the Characterization of the Field Pressure in Terrain. Accuracy, Response, and Adjustments. <i>Sensors</i> , 2019, 19, 3942.  | 3.8 | 3         |
| 6  | Combined US and UWB-RF imaging of concrete structures for identification and location of embedded materials. <i>Construction and Building Materials</i> , 2017, 152, 693-701.  | 7.2 | 0         |
| 7  | Ultrasound Transmission Tomography for Detecting and Measuring Cylindrical Objects Embedded in Concrete. <i>Sensors</i> , 2017, 17, 1085.  | 3.8 | 15        |
| 8  | Monitoring of the curing process in precast concrete slabs: An experimental study. <i>Construction and Building Materials</i> , 2016, 122, 406-416.  | 7.2 | 15        |
| 9  | Microstructural and mechanical properties study of the curing process of self-compacting concrete. <i>Materials and Design</i> , 2016, 94, 479-486.  | 7.0 | 10        |
| 10 | Monitoring of Freeze-Thaw Cycles in Concrete Using Embedded Sensors and Ultrasonic Imaging. <i>Sensors</i> , 2014, 14, 2280-2304.  | 3.8 | 34        |
| 11 | An Embedded Stress Sensor for Concrete SHM Based on Amorphous Ferromagnetic Microwires. <i>Sensors</i> , 2014, 14, 19963-19978.  | 3.8 | 44        |
| 12 | Optimized OpenCL implementation of the Elastodynamic Finite Integration Technique for viscoelastic media. <i>Computer Physics Communications</i> , 2014, 185, 2683-2696.   | 7.5 | 26        |
| 13 | Non-destructive monitoring of curing process in precast concrete. <i>IOP Conference Series: Materials Science and Engineering</i> , 2012, 42, 012050.  | 0.6 | 2         |
| 14 | Evaluation of freeze-thaw damage in concrete by ultrasonic imaging. <i>NDT and E International</i> , 2012, 52, 86-94.  | 3.7 | 80        |
| 15 | Study of the influence of microstructural parameters on the ultrasonic velocity in steel-fiber-reinforced cementitious materials. <i>Construction and Building Materials</i> , 2011, 25, 3066-3072.                              | 7.2 | 15        |
| 16 | Ultrasonic wave propagation in cementitious materials: A multiphase approach of a self-consistent multiple scattering model. <i>Ultrasonics</i> , 2011, 51, 71-84.   | 3.9 | 15        |
| 17 | Characterization of mortar samples using ultrasonic scattering attenuation. <i>Physics Procedia</i> , 2010, 3, 839-845.  | 1.2 | 5         |
| 18 | On the measurement of frequency-dependent ultrasonic attenuation in strongly heterogeneous materials. <i>Ultrasonics</i> , 2010, 50, 824-828.  | 3.9 | 21        |

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 19 | Non-destructive characterisation of alumina/aluminium titanate composites using a micromechanical model and ultrasonic determinations. <i>Ceramics International</i> , 2008, 34, 181-188. | 4.8  | 21        |
| 20 | Non-destructive characterisation of alumina/aluminium titanate composites using a micromechanical model and ultrasonic determinations. <i>Ceramics International</i> , 2008, 34, 189-195. | 4.8  | 5         |
| 21 | Formulation of a new micromechanic model of three phases for ultrasonic characterization of cement-based materials. <i>Cement and Concrete Research</i> , 2006, 36, 609-616.              | 11.0 | 18        |
| 22 | Application of a micromechanical model of three phases to estimating the porosity of mortar by ultrasound. <i>Cement and Concrete Research</i> , 2006, 36, 617-624.                       | 11.0 | 29        |
| 23 | Porosity estimation of aged mortar using a micromechanical model. <i>Ultrasonics</i> , 2006, 44, e1007-e1011.   | 3.9  | 9         |
| 24 | Time-varying prediction filter for structural noise reduction in ultrasonic NDE. <i>Ultrasonics</i> , 2006, 44, e1001-e1005.  | 3.9  | 7         |
| 25 | Speckle reduction by energy time-frequency filtering. <i>Ultrasonics</i> , 2004, 42, 843-846.   | 3.9  | 5         |
| 26 | Effect of the fluid in the inclusions of cement paste on the ultrasonic velocity. <i>Ultrasonics</i> , 2004, 42, 865-869.   | 3.9  | 6         |
| 27 | Application of micromechanics to the characterization of mortar by ultrasound. <i>Ultrasonics</i> , 2002, 40, 217-221.  | 3.9  | 29        |
| 28 | Time-frequency Wiener filtering for structural noise reduction. <i>Ultrasonics</i> , 2002, 40, 259-261.   | 3.9  | 14        |
| 29 | NDE ultrasonic methods to characterise the porosity of mortar. <i>NDT and E International</i> , 2001, 34, 557-562.  | 3.7  | 49        |
| 30 | Signal-to-noise ratio enhancement based on the whitening transformation of colored structural noise. <i>Ultrasonics</i> , 2000, 38, 500-502.  | 3.9  | 5         |
| 31 | Porosity estimation of concrete by ultrasonic NDE. <i>Ultrasonics</i> , 2000, 38, 531-533.  | 3.9  | 65        |