# Valentina Zambrano

## List of Publications by Year
## in descending order

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|---|---|---|---|
| 23 papers | 1,873 citations | 687220<br>13 h-index | 839398<br>18 g-index |
| 23 all docs | 23 docs citations | 23 times ranked | 4827 citing authors |

| # | Article | IF | Citations |
|---|---------|----|-----------|
| 1 | The ATLAS Simulation Infrastructure. European Physical Journal C, 2010, 70, 823-874. | 1.4 | 1,187 |
| 2 | Readiness of the ATLAS Tile Calorimeter for LHC collisions. European Physical Journal C, 2010, 70, 1193-1236. | 1.4 | 121 |
| 3 | Measurement of inclusive jet and dijet cross sections inÂproton-proton collisions at 7ÂTeV centre-of-mass energy withÂtheÂATLAS detector. European Physical Journal C, 2011, 71, 1. | 1.4 | 114 |
| 4 | The ATLAS Inner Detector commissioning and calibration. European Physical Journal C, 2010, 70, 787-821. | 1.4 | 95 |
| 5 | Measurement of the W â†' â„"Î½ and Z/Î³ * â†' â„"â„" production cross sections in proton-proton collisions at $ sqrt{s} = 7;{ext{TeV}} $ with the ATLAS detector. Journal of High Energy Physics, 2010, 2010, 1. | 1.6 | 64 |
| 6 | Readiness of the ATLAS liquid argon calorimeter forÂLHCÂcollisions. European Physical Journal C, 2010, 70, 723-753. | 1.4 | 61 |
| 7 | Drift Time Measurement in the ATLAS Liquid Argon Electromagnetic Calorimeter using Cosmic Muons. European Physical Journal C, 2010, 70, 755-785. | 1.4 | 51 |
| 8 | The novel Mechanical Ventilator Milano for the COVID-19 pandemic. Physics of Fluids, 2021, 33, 037122. | 1.6 | 29 |
| 9 | Performance validation of deformable image registration in the pelvic region. Journal of Radiation Research, 2013, 54, i120-i128. | 0.8 | 26 |
| 10 | A quantitative comparison of the performance of three deformable registration algorithms in radiotherapy. Zeitschrift Fur Medizinische Physik, 2013, 23, 279-290. | 0.6 | 24 |
| 11 | Commissioning of the ATLAS Muon Spectrometer withÂcosmicÂrays. European Physical Journal C, 2010, 70, 875-916. | 1.4 | 23 |
| 12 | Performance of the ATLAS detector using first collision data. Journal of High Energy Physics, 2010, 2010, 1. | 1.6 | 18 |
| 13 | Studies of the performance of the ATLAS detector using cosmic-ray muons. European Physical Journal C, 2011, 71, 1. | 1.4 | 17 |
| 14 | Industrial digitalization in the industry 4.0 era: Classification, reuse and authoring of digital models on Digital Twin platforms. Array, 2022, 14, 100176. | 2.5 | 14 |
| 15 | A Digital Twin for Friction Prediction in Dynamic Rubber Applications with Surface Textures. Lubricants, 2021, 9, 57. | 1.2 | 12 |
| 16 | TWINKLE: A digital-twin-building kernel for real-time computer-aided engineering. SoftwareX, 2020, 11, 100419. | 1.2 | 9 |
| 17 | Demoulding process assessment of elastomers in micro-textured moulds. Open Research Europe, 0, 1, 120. | 2.0 | 3 |
| 18 | Virtual Sensor Development Based on Reduced Order Models of CFD Data. , 2019, , . | | 2 |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 19 | PO-0865 A PHANTOM STUDY FOR THE VALIDATION OF AN IN-HOUSE DEFORMABLE REGISTRATION ALGORITHM FOR DOSE ACCUMULATION. Radiotherapy and Oncology, 2012, 103, S338-S339. | 0.3 | 1 |
| 20 | Reduced order models for uncertainty management and zero-defect control in seal manufacturing. , 2019, , . | | 1 |
| 21 | A Practical Approach for Uncertainty Management in Rubber Manufacturing Processes Using Physics-Informed Real-Time Models. Polymers, 2022, 14, 2049. | 2.0 | 1 |
| 22 | 134 A REGISTRATION ALGORITHM FOR DOSE CORRECTION IN RADIATION THERAPY -VALIDATION OF DEFORMABLE REGISTRATION USING PHANTOMS.. Radiotherapy and Oncology, 2012, 102, S59-S60. | 0.3 | 0 |
| 23 | Demoulding process assessment of elastomers in micro-textured moulds. Open Research Europe, 0, 1, 120. | 2.0 | 0 |