

# Nicolás Guarín-Zapata

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6910003/publications.pdf>

Version: 2024-02-01

9  
papers

395  
citations

1478505

6  
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1474206

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g-index

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11  
docs citations

11  
times ranked

477  
citing authors

#	ARTICLE	IF	CITATIONS
1	Variational principles and finite element Bloch analysis in couple stress elastodynamics. <i>Wave Motion</i> , 2021, 106, 102809.	2.0	4
2	A General-Purpose Element-Based Approach to Compute Dispersion Relations in Periodic Materials with Existing Finite Element Codes. <i>Journal of Theoretical and Computational Acoustics</i> , 2020, 28, 1950005.	1.1	1
3	Finite element modeling of micropolar-based phononic crystals. <i>Wave Motion</i> , 2020, 92, 102406.	2.0	9
4	A natural impact-resistant bicontinuous composite nanoparticle coating. <i>Nature Materials</i> , 2020, 19, 1236-1243.	27.5	115
5	Bandgap tuning in bioinspired helicoidal composites. <i>Journal of the Mechanics and Physics of Solids</i> , 2019, 131, 344-357.	4.8	8
6	A Sinusoidally Architected Helicoidal Biocomposite. <i>Advanced Materials</i> , 2016, 28, 6835-6844.	21.0	158
7	X-Ray Mapping of an Impact-Resistant Crustacean-Derived Biocomposite. <i>Microscopy and Microanalysis</i> , 2016, 22, 98-99.	0.4	1
8	Shear wave filtering in naturally-occurring Bouligand structures. <i>Acta Biomaterialia</i> , 2015, 23, 11-20.	8.3	87
9	Evaluation of the Spectral Finite Element Method with the Theory of Phononic Crystals. <i>Journal of Computational Acoustics</i> , 2015, 23, 1550004.	1.0	6