

# Juan Gomez

## List of Publications by Year in descending order

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21  
papers

328  
citations

1163117

8  
h-index

940533

16  
g-index

21  
all docs

21  
docs citations

21  
times ranked

303  
citing authors

#	ARTICLE	IF	CITATIONS
1	Simplified Evaluation of Ground Motion Amplification in the Vicinity of a Topographic Feature. Journal of Earthquake Engineering, 2022, 26, 6745-6762.	2.5	2
2	Construction of rational models for topographic effects and size-conditioned-response-spectra. Soil Dynamics and Earthquake Engineering, 2021, 140, 106432.	3.8	0
3	Variational principles and finite element Bloch analysis in couple stress elastodynamics. Wave Motion, 2021, 106, 102809.	2.0	4
4	A General-Purpose Element-Based Approach to Compute Dispersion Relations in Periodic Materials with Existing Finite Element Codes. Journal of Theoretical and Computational Acoustics, 2020, 28, 1950005.	1.1	1
5	Finite element modeling of micropolar-based phononic crystals. Wave Motion, 2020, 92, 102406.	2.0	9
6	Bandgap tuning in bioinspired helicoidal composites. Journal of the Mechanics and Physics of Solids, 2019, 131, 344-357.	4.8	8
7	Site specific analysis using topography conditioned response spectra. Soil Dynamics and Earthquake Engineering, 2019, 123, 470-497.	3.8	6
8	The scattering of SH waves by a finite crack with a superposition-based diffraction technique. Studia Geophysica Et Geodaetica, 2017, 61, 93-114.	0.5	2
9	A Superposition Based Diffraction Technique to Study Site Effects in Earthquake Engineering. International Journal of Geophysics, 2016, 2016, 1-14.	1.1	3
10	Effects of realistic topography on the ground motion of the Colombian Andes – A case study at the Aburr Valley, Antioquia. Geophysical Journal International, 2016, 204, 1801-1816.	2.4	23
11	Shear wave filtering in naturally-occurring Bouligand structures. Acta Biomaterialia, 2015, 23, 11-20.	8.3	87
12	Evaluation of the Spectral Finite Element Method with the Theory of Phononic Crystals. Journal of Computational Acoustics, 2015, 23, 1550004.	1.0	6
13	Thermodynamics Theory for Damage Evolution in Solids. , 2015, , 721-762.		4
14	Thermodynamic Theory for Damage Evolution in Solids. , 2014, , 1-39.		2
15	Analytic approximation to the scattering of antiplane shear waves by free surfaces of arbitrary shape via superposition of incident, reflected and diffracted rays. Geophysical Journal International, 2013, 192, 1132-1143.	2.4	9
16	Computational implementation of Cosserat continuum. International Journal of Materials and Product Technology, 2009, 34, 3.	0.2	6
17	Determination of Strain Gradient Plasticity Length Scale for Microelectronics Solder Alloys. Journal of Electronic Packaging, Transactions of the ASME, 2007, 129, 120-128.	1.8	12
18	Nanoindentation of Pb/Sn solder alloys; experimental and finite element simulation results. International Journal of Solids and Structures, 2006, 43, 1505-1527.	2.7	34

#	ARTICLE	IF	CITATIONS
19	Damage mechanics constitutive model for Pb/Sn solder joints incorporating nonlinear kinematic hardening and rate dependent effects using a return mapping integration algorithm. Mechanics of Materials, 2006, 38, 585-598.	3.2	54
20	Length Scale in Solder Joints Materials. , 2006, , .		0
21	A thermodynamics based damage mechanics constitutive model for low cycle fatigue analysis of microelectronics solder joints incorporating size effects. International Journal of Solids and Structures, 2005, 42, 3744-3772.	2.7	56