

# Antonio Palermo

## List of Publications by Year in descending order

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Version: 2024-02-01

35  
papers

1,358  
citations

394421

19  
h-index

414414

32  
g-index

38  
all docs

38  
docs citations

38  
times ranked

1037  
citing authors

#	ARTICLE	IF	CITATIONS
1	Composite 3D-printed metastructures for low-frequency and broadband vibration absorption. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 8386-8390.	7.1	311
2	Engineered metabarrier as shield from seismic surface waves. Scientific Reports, 2016, 6, 39356.	3.3	191
3	Designing perturbative metamaterials from discrete models. Nature Materials, 2018, 17, 323-328.	27.5	150
4	Metabarriers with multi-mass locally resonating units for broad band Rayleigh waves attenuation. Soil Dynamics and Earthquake Engineering, 2018, 113, 265-277.	3.8	74
5	Seismic metasurfaces on porous layered media: Surface resonators and fluid-solid interaction effects on the propagation of Rayleigh waves. International Journal of Engineering Science, 2020, 154, 103347.	5.0	57
6	Seismic vibrations attenuation via damped layered periodic foundations. Engineering Structures, 2020, 211, 110427.	5.3	47
7	Control of Love waves by resonant metasurfaces. Scientific Reports, 2018, 8, 7234.	3.3	44
8	Hybridization of Guided Surface Acoustic Modes in Unconsolidated Granular Media by a Resonant Metasurface. Physical Review Applied, 2018, 9, .	3.8	41
9	Enhanced tuned mass damper using an inertial amplification mechanism. Journal of Sound and Vibration, 2020, 475, 115267.	3.9	37
10	Surface wave non-reciprocity via time-modulated metamaterials. Journal of the Mechanics and Physics of Solids, 2020, 145, 104181.	4.8	33
11	Mitigation of seismic waves: Metabarriers and metafoundations bench tested. Journal of Sound and Vibration, 2020, 485, 115537.	3.9	33
12	Inertial amplified resonators for tunable metasurfaces. Meccanica, 2019, 54, 2053-2065.	2.0	32
13	Extended bloch mode synthesis: Ultrafast method for the computation of complex band structures in phononic media. International Journal of Solids and Structures, 2016, 100-101, 29-40.	2.7	31
14	Rayleigh waves in locally resonant metamaterials. International Journal of Mechanical Sciences, 2021, 195, 106250.	6.7	31
15	Locally Resonant Metasurfaces for Shear Waves in Granular Media. Physical Review Applied, 2020, 13, .	3.8	30
16	A reduced Bloch operator finite element method for fast calculation of elastic complex band structures. International Journal of Solids and Structures, 2020, 191-192, 601-613.	2.7	27
17	Mitigation of Rayleigh-like waves in granular media via multi-layer resonant metabarriers. Applied Physics Letters, 2020, 117, .	3.3	23
18	Lamb's problem for a half-space coupled to a generic distribution of oscillators at the surface. International Journal of Engineering Science, 2021, 168, 103547.	5.0	22

#	ARTICLE	IF	CITATIONS
19	Rayleigh wave propagation in nonlinear metasurfaces. <i>Journal of Sound and Vibration</i> , 2022, 520, 116599.	3.9	22
20	Tuning of Surface-Acoustic-Wave Dispersion via Magnetically Modulated Contact Resonances. <i>Physical Review Applied</i> , 2019, 11, .	3.8	19
21	A Flexible Spiraling Metasurface as a Versatile Haptic Interface. <i>Advanced Materials Technologies</i> , 2020, 5, 2000181.	5.8	19
22	Topological edge states of quasiperiodic elastic metasurfaces. <i>Mechanical Systems and Signal Processing</i> , 2022, 181, 109478.	8.0	18
23	Finite Element Modeling and Experimental Characterization of Piezoceramic Frequency Steerable Acoustic Transducers. <i>IEEE Sensors Journal</i> , 2022, 22, 13958-13970.	4.7	15
24	Medium-scale resonant wave barrier for seismic surface waves. <i>Mechanics Based Design of Structures and Machines</i> , 2021, 49, 1157-1172.	4.7	11
25	Acoustic properties of porous microlattices from effective medium to scattering dominated regimes. <i>Journal of the Acoustical Society of America</i> , 2018, 144, 319-329.	1.1	8
26	Limits of the Kelvin Voigt Model for the Analysis of Wave Propagation in Monoatomic Mass-Spring Chains. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2016, 138, .	1.6	5
27	Poroelastic microlattices for underwater wave focusing. <i>Extreme Mechanics Letters</i> , 2021, 49, 101499.	4.1	5
28	Cloaking strategy for Love waves. <i>Extreme Mechanics Letters</i> , 2022, 50, 101564.	4.1	4
29	A multiple scattering formulation for finite-size flexural metasurfaces. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2022, 478, .	2.1	4
30	Seismic surface waves attenuation by buried resonators. , 2016, , .		3
31	Geometric and material attenuation of surface acoustic modes in granular media. <i>Geophysical Journal International</i> , 2022, 230, 288-297.	2.4	3
32	Phonons in Diatomic Linear Viscoelastic Chains. <i>Physics Procedia</i> , 2015, 70, 266-270.	1.2	2
33	A multi-mass metabarrier to protect buildings from seismic Rayleigh waves. , 2017, , .		1
34	A simple beam model to analyse the durability of adhesively bonded tile floorings in presence of shrinkage. <i>Frattura Ed Integrita Strutturale</i> , 2014, 8, 293-301.	0.9	0
35	Controlling surface acoustic waves via magnetically-modulated contact resonances. , 2019, , .		0