

# Samuel P Wallen

## List of Publications by Year in descending order

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Version: 2024-02-01

17  
papers

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citations

933447

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940533

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20  
docs citations

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times ranked

317  
citing authors

#	ARTICLE	IF	CITATIONS
1	Complex Contact-Based Dynamics of Microsphere Monolayers Revealed by Resonant Attenuation of Surface Acoustic Waves. <i>Physical Review Letters</i> , 2016, 116, 198001.	7.8	46
2	A self-assembled metamaterial for Lamb waves. <i>Applied Physics Letters</i> , 2015, 107, .	3.3	40
3	Non-reciprocal wave propagation in mechanically-modulated continuous elastic metamaterials. <i>Journal of the Acoustical Society of America</i> , 2019, 146, 782-788.	1.1	37
4	Nonreciprocal wave phenomena in spring-mass chains with effective stiffness modulation induced by geometric nonlinearity. <i>Physical Review E</i> , 2019, 99, 013001.	2.1	36
5	Dynamics of a monolayer of microspheres on an elastic substrate. <i>Physical Review B</i> , 2015, 92, .	3.2	27
6	Spatial Laplace transform for complex wavenumber recovery and its application to the analysis of attenuation in acoustic systems. <i>Journal of Applied Physics</i> , 2016, 120, .	2.5	23
7	Shear to longitudinal mode conversion via second harmonic generation in a two-dimensional microscale granular crystal. <i>Wave Motion</i> , 2017, 68, 22-30.	2.0	18
8	Vibrational dynamics of a two-dimensional microgranular crystal. <i>Physical Review B</i> , 2017, 96, .	3.2	17
9	Discrete breathers in a mass-in-mass chain with Hertzian local resonators. <i>Physical Review E</i> , 2017, 95, 022904.	2.1	16
10	Nonreciprocal vibrations of finite elastic structures with spatiotemporally modulated material properties. <i>Physical Review B</i> , 2020, 102, .	3.2	15
11	Longitudinal eigenvibration of multilayer colloidal crystals and the effect of nanoscale contact bridges. <i>Nanoscale</i> , 2019, 11, 5655-5665.	5.6	11
12	Acoustic wave propagation in disordered microscale granular media under compression. <i>Granular Matter</i> , 2017, 19, 1.	2.2	8
13	Contact-based and spheroidal vibrational modes of a hexagonal monolayer of microspheres on a substrate. <i>Wave Motion</i> , 2018, 76, 122-133.	2.0	8
14	Static and dynamic non-reciprocity in bi-linear structures. <i>Proceedings of Meetings on Acoustics</i> , 2018, , .	0.3	8
15	Numerical study of acoustic focusing using a bianisotropic acoustic lens. <i>Journal of the Acoustical Society of America</i> , 2020, 148, EL365-EL369.	1.1	6
16	Nonreciprocity and Mode Conversion in a Spatiotemporally Modulated Elastic Wave Circulator. <i>Physical Review Applied</i> , 2022, 17, .	3.8	4
17	Discrete Breathers in a One-Dimensional Granular Metamaterial: Linear Lattice with Nonlinear Local Resonators. , 2014, , .		1