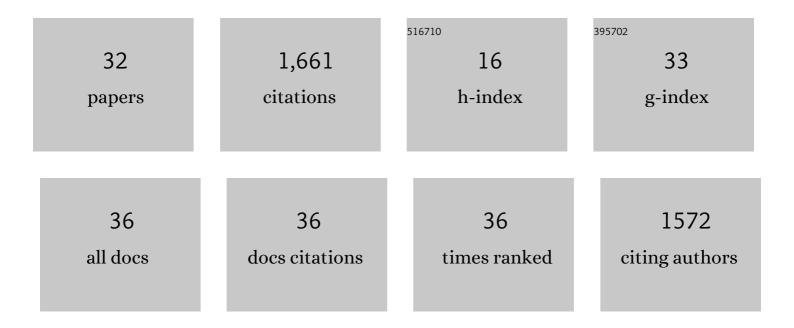
Nicholas Boechler

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Microscale Concert Hall Acoustics to Produce Uniform Ultrasound Stimulation for Targeted Sonogenetics in hsTRPA1â€Transfected Cells. Advanced NanoBiomed Research, 2022, 2, .	3.6	6
2	Temperature-controlled spatiotemporally modulated phononic crystal for achieving nonreciprocal acoustic wave propagation. Journal of the Acoustical Society of America, 2022, 151, 3669-3675.	1.1	3
3	The role of polymer mechanochemistry in responsive materials and additive manufacturing. Nature Reviews Materials, 2021, 6, 84-98.	48.7	151
4	Growing phenotype-controlled phononic materials from plant cells scaffolds. Applied Materials Today, 2021, 22, 100934.	4.3	2
5	Mechanoactivation of Color and Autonomous Shape Change in 3D-Printed Ionic Polymer Networks. ACS Applied Materials & Interfaces, 2021, 13, 19263-19270.	8.0	15
6	Topology optimization of nonlinear periodically microstructured materials for tailored homogenized constitutive properties. Composite Structures, 2021, 266, 113729.	5.8	15
7	Reduced strain mechanochemical activation onset in microstructured materials. Polymer Chemistry, 2020, 11, 1122-1126.	3.9	8
8	Mechano-Activated Objects with Multidirectional Shape Morphing Programmed via 3D Printing. ACS Applied Polymer Materials, 2020, 2, 2504-2508.	4.4	20
9	Nanocontact Tailoring via Microlensing Enables Giant Postfabrication Mesoscopic Tuning in a Selfâ€Assembled Ultrasonic Metamaterial. Advanced Functional Materials, 2020, 30, 1909217.	14.9	6
10	Longitudinal eigenvibration of multilayer colloidal crystals and the effect of nanoscale contact bridges. Nanoscale, 2019, 11, 5655-5665.	5.6	11
11	Wrinkles Riding Waves in Soft Layered Materials. Advanced Materials Interfaces, 2019, 6, 1801609.	3.7	6
12	Wrinkles: Wrinkles Riding Waves in Soft Layered Materials (Adv. Mater. Interfaces 1/2019). Advanced Materials Interfaces, 2019, 6, 1970004.	3.7	1
13	Contact-based and spheroidal vibrational modes of a hexagonal monolayer of microspheres on a substrate. Wave Motion, 2018, 76, 122-133.	2.0	8
14	Additive manufacturing with a flex activated mechanophore for nondestructive assessment of mechanochemical reactivity in complex object geometries. Polymer, 2018, 152, 4-8.	3.8	36
15	GST-on-silicon hybrid nanophotonic integrated circuits: a non-volatile quasi-continuously reprogrammable platform. Optical Materials Express, 2018, 8, 1551.	3.0	166
16	Mechanochromic Stretchable Electronics. ACS Applied Materials & Interfaces, 2018, 10, 29918-29924.	8.0	72
17	Discrete breathers in a mass-in-mass chain with Hertzian local resonators. Physical Review E, 2017, 95, 022904.	2.1	16
18	Vibrational dynamics of a two-dimensional microgranular crystal. Physical Review B, 2017, 96, .	3.2	17

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#	Article	IF	CITATIONS
19	Acoustic wave propagation in disordered microscale granular media under compression. Granular Matter, 2017, 19, 1.	2.2	8
20	Shear to longitudinal mode conversion via second harmonic generation in a two-dimensional microscale granular crystal. Wave Motion, 2017, 68, 22-30.	2.0	18
21	Spatial Laplace transform for complex wavenumber recovery and its application to the analysis of attenuation in acoustic systems. Journal of Applied Physics, 2016, 120, .	2.5	23
22	Resonant attenuation of surface acoustic waves by a disordered monolayer of microspheres. Applied Physics Letters, 2016, 108, .	3.3	15
23	Complex Contact-Based Dynamics of Microsphere Monolayers Revealed by Resonant Attenuation of Surface Acoustic Waves. Physical Review Letters, 2016, 116, 198001.	7.8	46
24	Laser-Induced Spallation of Microsphere Monolayers. Langmuir, 2016, 32, 7730-7734.	3.5	4
25	Dynamics of a monolayer of microspheres on an elastic substrate. Physical Review B, 2015, 92, .	3.2	27
26	Laser-induced transient grating setup with continuously tunable period. Review of Scientific Instruments, 2015, 86, 123101.	1.3	23
27	A self-assembled metamaterial for Lamb waves. Applied Physics Letters, 2015, 107, .	3.3	40
28	Interaction of a Contact Resonance of Microspheres with Surface Acoustic Waves. Physical Review Letters, 2013, 111, 036103.	7.8	116
29	Nonlinear Periodic Phononic Structures and Granular Crystals. Springer Series in Solid-state Sciences, 2013, , 217-251.	0.3	34
30	Hysteresis loops and multi-stability: From periodic orbits to chaotic dynamics (and back) in diatomic granular crystals. Europhysics Letters, 2013, 101, 44003.	2.0	27
31	Bifurcation-based acoustic switching and rectification. Nature Materials, 2011, 10, 665-668.	27.5	496
32	Discrete Breathers in One-Dimensional Diatomic Granular Crystals. Physical Review Letters, 2010, 104, 244302.	7.8	224