

Vincent Laude

List of Publications by Year in descending order

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288
papers

8,545
citations

44069

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54911

84
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290
all docs

290
docs citations

290
times ranked

3851
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Amplitude and phase control of ultrashort pulses by use of an acousto-optic programmable dispersive filter: pulse compression and shaping. <i>Optics Letters</i> , 2000, 25, 575. | 3.3 | 502 |
| 2 | Guiding and bending of acoustic waves in highly confined phononic crystal waveguides. <i>Applied Physics Letters</i> , 2004, 84, 4400-4402. | 3.3 | 423 |
| 3 | Complete band gaps in two-dimensional phononic crystal slabs. <i>Physical Review E</i> , 2006, 74, 046610. | 2.1 | 358 |
| 4 | Evidence for complete surface wave band gap in a piezoelectric phononic crystal. <i>Physical Review E</i> , 2006, 73, 065601. | 2.1 | 274 |
| 5 | Trapping and guiding of acoustic waves by defect modes in a full-band-gap ultrasonic crystal. <i>Physical Review B</i> , 2003, 68, . | 3.2 | 269 |
| 6 | Stimulated Brillouin scattering from multi-GHz-guided acoustic phonons in nanostructured photonic crystal fibres. <i>Nature Physics</i> , 2006, 2, 388-392. | 16.7 | 263 |
| 7 | Experimental observation of locally-resonant and Bragg band gaps for surface guided waves in a phononic crystal of pillars. <i>Physical Review B</i> , 2011, 83, . | 3.2 | 219 |
| 8 | Locally resonant surface acoustic wave band gaps in a two-dimensional phononic crystal of pillars on a surface. <i>Physical Review B</i> , 2010, 81, . | 3.2 | 212 |
| 9 | Full band gap for surface acoustic waves in a piezoelectric phononic crystal. <i>Physical Review E</i> , 2005, 71, 036607. | 2.1 | 208 |
| 10 | Evanescent Bloch waves and the complex band structure of phononic crystals. <i>Physical Review B</i> , 2009, 80, . | 3.2 | 162 |
| 11 | Brillouin light scattering from surface acoustic waves in a subwavelength-diameter optical fibre. <i>Nature Communications</i> , 2014, 5, 5242. | 12.8 | 142 |
| 12 | A full 3D plane-wave-expansion model for 1-3 piezoelectric composite structures. <i>Journal of the Acoustical Society of America</i> , 2002, 112, 943-952. | 1.1 | 127 |
| 13 | Simultaneous existence of phononic and photonic band gaps in periodic crystal slabs. <i>Optics Express</i> , 2010, 18, 14301. | 3.4 | 117 |
| 14 | Material loss influence on the complex band structure and group velocity in phononic crystals. <i>Physical Review B</i> , 2011, 83, . | 3.2 | 109 |
| 15 | Light-weight shell-lattice metamaterials for mechanical shock absorption. <i>International Journal of Mechanical Sciences</i> , 2020, 169, 105288. | 6.7 | 109 |
| 16 | Arbitrary dispersion control of ultrashort optical pulses with acoustic waves. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2000, 17, 138. | 2.1 | 103 |
| 17 | Waveguiding inside the complete band gap of a phononic crystal slab. <i>Physical Review E</i> , 2007, 76, 056601. | 2.1 | 100 |
| 18 | Tailoring simultaneous photonic and phononic band gaps. <i>Journal of Applied Physics</i> , 2009, 106, . | 2.5 | 99 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Raman-like light scattering from acoustic phonons in photonic crystal fiber. Optics Express, 2006, 14, 4141. | 3.4 | 96 |
| 20 | Enhanced acousto-optic interactions in a one-dimensional phoxonic cavity. Physical Review B, 2010, 82, . | 3.2 | 96 |
| 21 | Wave propagation in two-dimensional viscoelastic metamaterials. Physical Review B, 2015, 92, . | 3.2 | 96 |
| 22 | Acoustic channel drop tunneling in a phononic crystal. Applied Physics Letters, 2005, 87, 261912. | 3.3 | 93 |
| 23 | Complete experimental characterization of stimulated Brillouin scattering in photonic crystal fiber. Optics Express, 2007, 15, 15517. | 3.4 | 85 |
| 24 | Simultaneous guidance of slow photons and slow acoustic phonons in silicon phoxonic crystal slabs. Optics Express, 2011, 19, 9690. | 3.4 | 83 |
| 25 | Guided acoustic wave Brillouin scattering in photonic crystal fibers. Optics Letters, 2007, 32, 17. | 3.3 | 82 |
| 26 | Modeling light-sound interaction in nanoscale cavities and waveguides. Nanophotonics, 2014, 3, 413-440. | 6.0 | 82 |
| 27 | Phononic band-gap guidance of acoustic modes in photonic crystal fibers. Physical Review B, 2005, 71, . | 3.2 | 80 |
| 28 | Nonlinear joint-transform correlation: an optimal solution for adaptive image discrimination and input noise robustness. Optics Letters, 1994, 19, 405. | 3.3 | 77 |
| 29 | Stable scattering-matrix method for surface acoustic waves in piezoelectric multilayers. Applied Physics Letters, 2002, 80, 2544-2546. | 3.3 | 77 |
| 30 | Complete band gaps and deaf bands of triangular and honeycomb water-steel phononic crystals. Journal of Applied Physics, 2007, 101, 044903. | 2.5 | 75 |
| 31 | Compression of attosecond harmonic pulses by extreme-ultraviolet chirped mirrors. Optics Letters, 2005, 30, 1554. | 3.3 | 73 |
| 32 | Twisted-nematic liquid-crystal pixelated active lens. Optics Communications, 1998, 153, 134-152. | 2.1 | 72 |
| 33 | Scattering matrix method for modeling acoustic waves in piezoelectric, fluid, and metallic multilayers. Journal of Applied Physics, 2003, 94, 6923-6931. | 2.5 | 70 |
| 34 | Guided elastic waves along a rod defect of a two-dimensional phononic crystal. Physical Review E, 2004, 69, 067601. | 2.1 | 67 |
| 35 | Local resonances in phononic crystals and in random arrangements of pillars on a surface. Journal of Applied Physics, 2013, 114, 104503. | 2.5 | 66 |
| 36 | Dual phononic and photonic band gaps in a periodic array of pillars deposited on a thin plate. Physical Review B, 2010, 82, . | 3.2 | 65 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Electrostriction and guidance of acoustic phonons in optical fibers. <i>Physical Review B</i> , 2012, 86, . | 3.2 | 65 |
| 38 | Superluminal asymptotic tunneling times through one-dimensional photonic bandgaps in quarter-wave-stack dielectric mirrors. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1999, 16, 194. | 2.1 | 64 |
| 39 | Surface acoustic wave trapping in a periodic array of mechanical resonators. <i>Applied Physics Letters</i> , 2006, 89, 083515. | 3.3 | 60 |
| 40 | Simulations of surface acoustic wave devices built on stratified media using a mixed finite element/boundary integral formulation. <i>Journal of Applied Physics</i> , 2004, 96, 7731-7741. | 2.5 | 59 |
| 41 | Broadband evolution of phononic-crystal-waveguide eigenstates in real- and k-spaces. <i>Scientific Reports</i> , 2013, 3, 3351. | 3.3 | 57 |
| 42 | Out-of-plane propagation of elastic waves in two-dimensional phononic band-gap materials. <i>Physical Review E</i> , 2003, 67, 065602. | 2.1 | 56 |
| 43 | Guidance of surface waves in a micron-scale phononic crystal line-defect waveguide. <i>Applied Physics Letters</i> , 2015, 106, . | 3.3 | 56 |
| 44 | Subwavelength focusing of surface acoustic waves generated by an annular interdigital transducer. <i>Applied Physics Letters</i> , 2008, 92, . | 3.3 | 53 |
| 45 | Acousto-optically tunable lithium niobate photonic crystal. <i>Applied Physics Letters</i> , 2010, 96, . | 3.3 | 53 |
| 46 | Negative group velocities in metal-film optical waveguides. <i>Optics Communications</i> , 1997, 137, 41-45. | 2.1 | 51 |
| 47 | Guiding and splitting Lamb waves in coupled-resonator elastic waveguides. <i>Composite Structures</i> , 2018, 206, 588-593. | 5.8 | 51 |
| 48 | Multicriteria characterization of coding domains with optimal Fourier spatial light modulator filters. <i>Applied Optics</i> , 1994, 33, 4465. | 2.1 | 49 |
| 49 | Observation of surface-guided waves in holey hypersonic phononic crystal. <i>Applied Physics Letters</i> , 2011, 98, . | 3.3 | 48 |
| 50 | Band gaps and cavity modes in dual phononic and photonic strip waveguides. <i>AIP Advances</i> , 2011, 1, . | 1.3 | 48 |
| 51 | Analysis of optomechanical coupling in two-dimensional square lattice phononic crystal slab cavities. <i>Physical Review B</i> , 2013, 88, . | 3.2 | 48 |
| 52 | Finite-element analysis of periodic piezoelectric transducers. <i>Journal of Applied Physics</i> , 2003, 93, 702-711. | 2.5 | 47 |
| 53 | Interaction of waveguide and localized modes in a phononic crystal. <i>Europhysics Letters</i> , 2005, 71, 570-575. | 2.0 | 47 |
| 54 | Scattering of surface acoustic waves by a phononic crystal revealed by heterodyne interferometry. <i>Applied Physics Letters</i> , 2007, 91, 083517. | 3.3 | 46 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 55 | Energy storage and dispersion of surface acoustic waves trapped in a periodic array of mechanical resonators. <i>Journal of Applied Physics</i> , 2009, 105, . | 2.5 | 45 |
| 56 | Non-radiative complete surface acoustic wave bandgap for finite-depth holey phononic crystal in lithium niobate. <i>Applied Physics Letters</i> , 2012, 100, . | 3.3 | 45 |
| 57 | Polarization state and level repulsion in two-dimensional phononic crystals and waveguides in the presence of material anisotropy. <i>Journal Physics D: Applied Physics</i> , 2010, 43, 185401. | 2.8 | 43 |
| 58 | Highly selective electroplated nickel mask for lithium niobate dry etching. <i>Journal of Applied Physics</i> , 2009, 105, . | 2.5 | 42 |
| 59 | Experimental observation of roton-like dispersion relations in metamaterials. <i>Science Advances</i> , 2021, 7, eabm2189. | 10.3 | 41 |
| 60 | Tunable fluid-filled phononic metastrip. <i>Applied Physics Letters</i> , 2017, 111, . | 3.3 | 40 |
| 61 | Reconfigurable Phononic-Crystal Circuits Formed by Coupled Acoustoelastic Resonators. <i>Physical Review Applied</i> , 2017, 8, . | 3.8 | 39 |
| 62 | Multiple low-frequency broad band gaps generated by a phononic crystal of periodic circular cavity sandwich plates. <i>Composite Structures</i> , 2017, 176, 294-303. | 5.8 | 35 |
| 63 | A mixed finite element/boundary element approach to simulate complex guided elastic wave periodic transducers. <i>Journal of Applied Physics</i> , 2009, 105, . | 2.5 | 34 |
| 64 | Channeled spectrum in the transmission of phononic crystal waveguides. <i>Journal of Sound and Vibration</i> , 2018, 437, 410-421. | 3.9 | 34 |
| 65 | Generation of phonons from electrostriction in small-core optical waveguides. <i>AIP Advances</i> , 2013, 3, . | 1.3 | 33 |
| 66 | Reduction and control of stimulated Brillouin scattering in polymer-coated chalcogenide optical microwires. <i>Optics Letters</i> , 2014, 39, 482. | 3.3 | 33 |
| 67 | Ultra-broadband passive acoustic metasurface for wide-angle carpet cloaking. <i>Materials and Design</i> , 2021, 199, 109414. | 7.0 | 33 |
| 68 | High-frequency surface acoustic waves excited on thin-oriented LiNbO ₃ /single-crystal layers transferred onto silicon. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2007, 54, 870-876. | 3.0 | 32 |
| 69 | Dispersion relation of coupled-resonator acoustic waveguides formed by defect cavities in a phononic crystal. <i>Journal Physics D: Applied Physics</i> , 2013, 46, 475301. | 2.8 | 32 |
| 70 | Bloch wave deafness and modal conversion at a phononic crystal boundary. <i>AIP Advances</i> , 2011, 1, . | 1.3 | 31 |
| 71 | Periodic finite element/boundary element modeling of capacitive micromachined ultrasonic transducers. <i>Journal of Applied Physics</i> , 2005, 97, 034901. | 2.5 | 30 |
| 72 | Optimal isotropic, reusable truss lattice material with near-zero Poisson's ratio. <i>Extreme Mechanics Letters</i> , 2020, 41, 101048. | 4.1 | 30 |

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|----|---|-----|-----------|
| 73 | Amplitude and phase coding measurements of a liquid crystal television. Optics Communications, 1993, 103, 33-38. | 2.1 | 29 |
| 74 | Observation of band gaps in the gigahertz range and deaf bands in a hypersonic aluminum nitride phononic crystal slab. Applied Physics Letters, 2011, 98, . | 3.3 | 29 |
| 75 | Ultra-Wide Band Gap in Two-Dimensional Phononic Crystal with Combined Convex and Concave Holes. Physica Status Solidi - Rapid Research Letters, 2018, 12, 1700317. | 2.4 | 29 |
| 76 | Low-frequency band gap in cross-like holey phononic crystal strip. Journal Physics D: Applied Physics, 2018, 51, 045601. | 2.8 | 29 |
| 77 | Generally polarized acoustic waves trapped by high aspect ratio electrode gratings at the surface of a piezoelectric material. Journal of Applied Physics, 2001, 90, 2492-2497. | 2.5 | 28 |
| 78 | Designing thermal energy harvesting devices with natural materials through optimized microstructures. International Journal of Heat and Mass Transfer, 2021, 169, 120948. | 4.8 | 28 |
| 79 | Coupling characteristics of localized phonons in photonic crystal fibers. Journal of Applied Physics, 2003, 94, 7944. | 2.5 | 27 |
| 80 | Octave omnidirectional band gap in a three-dimensional phononic crystal. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2010, 57, 1621-1625. | 3.0 | 27 |
| 81 | Effect of loss on the dispersion relation of photonic and phononic crystals. Physical Review B, 2013, 88, . | 3.2 | 27 |
| 82 | Surface Green's function of a piezoelectric half-space. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2006, 53, 420-428. | 3.0 | 26 |
| 83 | Frequency-selective excitation of guided acoustic modes in a photonic crystal fiber. Optics Express, 2011, 19, 7689. | 3.4 | 25 |
| 84 | Design of single-mode waveguides for enhanced light-sound interaction in honeycomb-lattice silicon slabs. Journal of Applied Physics, 2014, 115, . | 2.5 | 25 |
| 85 | Coupling of evanescent and propagating guided modes in locally resonant phononic crystals. Journal Physics D: Applied Physics, 2014, 47, 475502. | 2.8 | 25 |
| 86 | 4D Thermomechanical metamaterials for soft microrobotics. Communications Materials, 2021, 2, . | 6.9 | 25 |
| 87 | Hartmann wave-front scanner. Optics Letters, 1999, 24, 1796. | 3.3 | 23 |
| 88 | Phononic crystal diffraction gratings. Journal of Applied Physics, 2012, 111, . | 2.5 | 23 |
| 89 | Guidance of surface elastic waves along a linear chain of pillars. AIP Advances, 2016, 6, . | 1.3 | 23 |
| 90 | Reconfigurable waveguides defined by selective fluid filling in two-dimensional phononic metaplates. Mechanical Systems and Signal Processing, 2022, 165, 108392. | 8.0 | 23 |

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|-----|---|------|-----------|
| 91 | Influence of nonoverlapping noise on regularized linear filters for pattern recognition. Optics Letters, 1995, 20, 2237. | 3.3 | 22 |
| 92 | A FEA/BEM approach to simulate complex electrode structures devoted to guided elastic wave periodic transducers. , 0, , . | | 22 |
| 93 | Surface-Wave Coupling to Single Phononic Subwavelength Resonators. Physical Review Applied, 2017, 8, . | 3.8 | 22 |
| 94 | Collective Resonances of a Chain of Coupled Phononic Microresonators. Physical Review Applied, 2020, 13, . | 3.8 | 22 |
| 95 | A P-matrix based model for SAW grating waveguides taking into account modes conversion at the reflection. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2004, 51, 1690-1696. | 3.0 | 21 |
| 96 | Light modulation in phoxonic nanocavities. Microelectronic Engineering, 2012, 90, 155-158. | 2.4 | 21 |
| 97 | Lagrangian description of Brillouin scattering and electrostriction in nanoscale optical waveguides. New Journal of Physics, 2015, 17, 125003. | 2.9 | 21 |
| 98 | Formation of Bragg Band Gaps in Anisotropic Phononic Crystals Analyzed With the Empty Lattice Model. Crystals, 2016, 6, 52. | 2.2 | 21 |
| 99 | Optical architectures for programmable filtering and correlation of microwave signals. IEEE Transactions on Microwave Theory and Techniques, 1997, 45, 1467-1472. | 4.6 | 20 |
| 100 | Three-dimensional modelling of micromachined-ultrasonic-transducer arrays operating in water. Ultrasonics, 2005, 43, 457-465. | 3.9 | 20 |
| 101 | Simultaneous bandgaps in LiNbO3 phoxonic crystal slab. Optics Express, 2014, 22, 16288. | 3.4 | 20 |
| 102 | Dipole states and coherent interaction in surface-acoustic-wave-coupled phononic resonators. Nature Communications, 2019, 10, 4583. | 12.8 | 20 |
| 103 | Wave propagation in one-dimensional fluid-saturated porous phononic crystals with partial-open pore interfaces. International Journal of Mechanical Sciences, 2021, 195, 106227. | 6.7 | 20 |
| 104 | Liquid-crystal Hartmann wave-front scanner. Applied Optics, 2000, 39, 3838. | 2.1 | 19 |
| 105 | Modulation of the extraordinary optical transmission by surface acoustic waves. Physical Review B, 2007, 76, . | 3.2 | 19 |
| 106 | Principles and properties of phononic crystal waveguides. APL Materials, 2021, 9, . | 5.1 | 19 |
| 107 | Phononic Crystals. , 2020, , . | | 19 |
| 108 | Fast FEM/BEM simulation of SAW devices via asymptotic waveform evaluation. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2004, 51, 359-363. | 3.0 | 18 |

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|-----|---|-----|-----------|
| 109 | Theoretical analysis of damping effects of guided elastic waves at solid-fluid interfaces. Journal of Applied Physics, 2006, 99, 054907. | 2.5 | 18 |
| 110 | Observation of topological gravity-capillary waves in a water wave crystal. New Journal of Physics, 2019, 21, 083031. | 2.9 | 18 |
| 111 | Experimental observations of topologically guided water waves within non-hexagonal structures. Applied Physics Letters, 2020, 116, 131603. | 3.3 | 18 |
| 112 | Liquid-crystal active lens: application to image resolution enhancement. Optics Communications, 1999, 163, 72-78. | 2.1 | 17 |
| 113 | 14-fs high temporal quality injector for ultra-high intensity laser. Optics Communications, 2009, 282, 1374-1379. | 2.1 | 17 |
| 114 | Wave propagation in one-dimensional fluid-saturated porous metamaterials. Physical Review B, 2019, 99, . | 3.2 | 17 |
| 115 | Basic properties of nonlinear global filtering techniques and optimal discriminant solutions. Applied Optics, 1995, 34, 3915. | 2.1 | 16 |
| 116 | Guided wave propagation along the surface of a one-dimensional solid-fluid phononic crystal. Journal Physics D: Applied Physics, 2013, 46, 365305. | 2.8 | 16 |
| 117 | Oriented lithium niobate layers transferred on 4" [100] silicon wafer for RF SAW devices. , 0, , . | | 15 |
| 118 | Experimental study of guiding and filtering of acoustic waves in a two dimensional ultrasonic crystal. Zeitschrift Fur Kristallographie - Crystalline Materials, 2005, 220, 836-840. | 0.8 | 15 |
| 119 | Extraordinary nonlinear transmission modulation in a doubly resonant acousto-optical structure. Optica, 2017, 4, 1245. | 9.3 | 15 |
| 120 | Closed tubular mechanical metamaterial as lightweight load-bearing structure and energy absorber. Journal of the Mechanics and Physics of Solids, 2022, 167, 104957. | 4.8 | 15 |
| 121 | Guided elastic waves in GaN-on-sapphire. Electronics Letters, 2001, 37, 1053. | 1.0 | 14 |
| 122 | Slowness curves and characteristics of surface acoustic waves propagating obliquely in periodic finite-thickness electrode gratings. Journal of Applied Physics, 2003, 94, 1235-1242. | 2.5 | 13 |
| 123 | Interface acoustic waves properties in some common crystal cuts. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2003, 50, 1363-1370. | 3.0 | 12 |
| 124 | A novel surface wave transducer based on periodically poled piezoelectric domain. , 0, , . | | 12 |
| 125 | Stochastic excitation method for calculating the resolvent band structure of periodic media and waveguides. Physical Review B, 2018, 97, . | 3.2 | 12 |
| 126 | Three-dimensional phononic crystal with ultra-wide bandgap at megahertz frequencies. Applied Physics Letters, 2021, 118, . | 3.3 | 12 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|------|-----------|
| 127 | Single-Step Lithography Micro-Stepper Based on Frictional Contact and Chiral Metamaterial. <i>Small</i> , 2022, 18, . | 10.0 | 12 |
| 128 | Blazed phononic crystal grating. <i>Applied Physics Letters</i> , 2013, 102, . | 3.3 | 11 |
| 129 | Surface Brillouin scattering in photonic crystal fibers. <i>Optics Letters</i> , 2016, 41, 3269. | 3.3 | 11 |
| 130 | Evanescent-wave tuning of a locally resonant sonic crystal. <i>Applied Physics Letters</i> , 2018, 113, . | 3.3 | 11 |
| 131 | General solution of the coupled-wave equations of acousto-optics. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2003, 20, 2307. | 1.5 | 10 |
| 132 | Equality of the energy and group velocities of bulk acoustic waves in piezoelectric media. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2005, 52, 1869-1871. | 3.0 | 10 |
| 133 | Elastic band gaps for surface modes in an ultrasonic lithium niobate phononic crystal. , 2006, 6182, 234. | | 10 |
| 134 | Design guidelines of 1-3 piezoelectric composites dedicated to ultrasound imaging transducers, based on frequency band-gap considerations. <i>Journal of the Acoustical Society of America</i> , 2007, 122, 786-793. | 1.1 | 10 |
| 135 | Acoustic Topological Circuitry in Square and Rectangular Phononic Crystals. <i>Physical Review Applied</i> , 2021, 15, . | 3.8 | 10 |
| 136 | Guided Lamb waves in reconfigurable phononic crystal waveguides. <i>APL Materials</i> , 2021, 9, . | 5.1 | 10 |
| 137 | Numerical simulation and comparison of membrane and solidly mounted FBAR's. , 0, , . | | 9 |
| 138 | Complex-Eigenfrequency Band Structure of Viscoelastic Phononic Crystals. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 2825. | 2.5 | 9 |
| 139 | Thermal cloaking of complex objects with the neutral inclusion and the coordinate transformation methods. <i>AIP Advances</i> , 2019, 9, . | 1.3 | 9 |
| 140 | Hybridization of resonant modes and Bloch waves in acoustoelastic phononic crystals. <i>Physical Review B</i> , 2020, 102, . | 3.2 | 9 |
| 141 | Phononic Coupled-Resonator Waveguide Micro-Cavities. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 6751. | 2.5 | 9 |
| 142 | Implementation of arbitrary real-valued correlation filters for the shadow-casting incoherent correlator. <i>Applied Optics</i> , 1996, 35, 5267. | 2.1 | 8 |
| 143 | Noise analysis of the measurement of group delay in Fourier white-light interferometric cross correlation. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2002, 19, 1001. | 2.1 | 8 |
| 144 | Simulation of cMUT radiating in water using a mixed finite element/boundary element approach. , 0, , . | | 8 |

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|-----|---|-----|-----------|
| 145 | Dyadic Green's functions of a laminar plate. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2004, 51, 1157-1164. | 3.0 | 8 |
| 146 | Unified and stable scattering matrix formalism for acoustic waves in piezoelectric stacks. Journal of Applied Physics, 2008, 104, 064916. | 2.5 | 8 |
| 147 | Two Methods to Broaden the Bandwidth of a Nonlinear Piezoelectric Bimorph Power Harvester. Journal of Vibration and Acoustics, Transactions of the ASME, 2017, 139, . | 1.6 | 8 |
| 148 | Optical architecture for programmable filtering of microwave signals. Optics Letters, 1996, 21, 803. | 3.3 | 7 |
| 149 | Characterization and prediction of transverse plate resonators built using mixed strip and groove gratings. , 0, , . | | 7 |
| 150 | Improving surface acousto-optical interaction by high aspect ratio electrodes. Journal of Applied Physics, 2009, 106, . | 2.5 | 7 |
| 151 | Honeycomb Photonic Crystal Waveguides in a Suspended Silicon Slab. IEEE Photonics Technology Letters, 2012, 24, 2056-2059. | 2.5 | 7 |
| 152 | Longitudinal Near-Field Coupling between Acoustic Resonators Grafted onto a Waveguide. Crystals, 2017, 7, 323. | 2.2 | 7 |
| 153 | Evanescent waves in two-dimensional fluid-saturated porous metamaterials with a transversely isotropic matrix. Physical Review B, 2020, 101, . | 3.2 | 7 |
| 154 | Diffraction analysis of pixelated incoherent shadow casting. Optics Communications, 1997, 138, 394-402. | 2.1 | 6 |
| 155 | High-speed photorefractive joint transform correlator using nonlinear filters. Journal of Optics, 1999, 1, 283-285. | 1.5 | 6 |
| 156 | Measurement of the sensitivity of heterodyne detection to aberrations using a programmable liquid-crystal modulator. Optics Communications, 1999, 160, 61-65. | 2.1 | 6 |
| 157 | Least action principle for the estimation of the slowness and the attenuation of pseudo surface acoustic waves. Journal of Applied Physics, 2003, 93, 10084-10088. | 2.5 | 6 |
| 158 | Surface acoustic wave guiding in a diffractionless high aspect ratio transducer. Applied Physics Letters, 2013, 102, . | 3.3 | 6 |
| 159 | Acousto-optic cavity coupling in 2D phoxonic crystal with combined convex and concave holes. Journal of Applied Physics, 2021, 130, 123104. | 2.5 | 6 |
| 160 | AlN and GaN layers deposited on sapphire or silicon substrates: theory and experiment. , 0, , . | | 5 |
| 161 | Design of coupled resonator filters using admittance and scattering matrices. , 0, , . | | 5 |
| 162 | A 3-D mixed finite-element/boundary-element model for the simulation of periodic ultrasound transducers radiating in layered media. , 0, , . | | 5 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 163 | Investigation of spurious resonances in thin film bulk acoustic wave resonators. , 0, , . | | 5 |
| 164 | Characterization of surface acoustic wave focusing by an annular interdigital transducer. , 2009, , . | | 5 |
| 165 | Spontaneous Brillouin Scattering Spectrum and Coherent Brillouin Gain in Optical Fibers. Applied Sciences (Switzerland), 2018, 8, 907. | 2.5 | 5 |
| 166 | Bayesian target location in images. Optical Engineering, 1997, 36, 2649. | 1.0 | 4 |
| 167 | Input image spectral density estimation for real-time adaption of correlation filters. Optical Engineering, 1999, 38, 672. | 1.0 | 4 |
| 168 | Periodic arrays of transducers built using sand blasting and ultrasound micromachining techniques for the fabrication of piezocomposite materials. , 0, , . | | 4 |
| 169 | Imaginary branches of surface acoustic wave slowness curves. Journal of Applied Physics, 2004, 96, 6895-6902. | 2.5 | 4 |
| 170 | Non periodic acoustic devices radiating in semi-infinite solids simulated by a combination of finite element analysis and a boundary element method. , 0, , . | | 4 |
| 171 | Fast FEM/BEM computation of SAW harmonic admittance and slowness curves. , 0, , . | | 4 |
| 172 | 3-D electrostatic hybrid element model for SAW interdigital transducers. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2008, 55, 686-695. | 3.0 | 4 |
| 173 | Notice of Removal: Prediction and measurement of boundary waves at the interface between LiNbO_3 and silicon. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2010, 57, 1655-1663. | 3.0 | 4 |
| 174 | Design of waveguides in silicon phoxonic crystal slabs. , 2010, , . | | 4 |
| 175 | Hypersonic phononic crystal for surface acoustic waves. , 2010, , . | | 4 |
| 176 | Tunable stimulated Brillouin scattering in hybrid polymer-chalcogenide tapered fibers. , 2014, , . | | 4 |
| 177 | Generation of coherent acoustic beams in solids by mixing of counterpropagating, detuned optical beams [Invited]. Applied Optics, 2018, 57, C77. | 1.8 | 4 |
| 178 | Effective anisotropy of periodic acoustic and elastic composites. Journal of Applied Physics, 2021, 129, . | 2.5 | 4 |
| 179 | 3d piezoelectric surface green-s function. , 0, , . | | 3 |
| 180 | Spatial fluctuations of an optical field modulated with spatial light modulators and noisy input signals. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1995, 12, 1338. | 1.5 | 3 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 181 | Surface acoustic waves propagating on piezoelectric substrates under periodic arrays with large electrode thickness. , 0, , . | | 3 |
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