Cristian Pantea

List of Publications by Year in descending order

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623574 434063 46 964 14 31 citations h-index g-index papers 65 65 65 1242 citing authors all docs docs citations times ranked

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Microstructure of carbon blacks determined by X-ray diffraction profile analysis. Carbon, 2002, 40, 929-937. | 5.4 | 188 |
| 2 | Thermal equations of state of the \hat{l}^2 , and \hat{l}^2 , | 1.1 | 113 |
| 3 | Enhancement of fracture toughness in nanostructured diamond–SiC composites. Applied Physics Letters, 2004, 84, 1356-1358. | 1.5 | 100 |
| 4 | Experimental constraints on the phase diagram of elemental zirconium. Journal of Physics and Chemistry of Solids, 2005, 66, 1213-1219. | 1.9 | 77 |
| 5 | Manipulation of diamond nanoparticles using bulk acoustic waves. Journal of Applied Physics, 2011, 109, . | 1.1 | 73 |
| 6 | Partial graphitization of diamond crystals under high-pressure and high-temperature conditions. Journal of Applied Physics, 2001, 90, 1632-1637. | 1.1 | 72 |
| 7 | Determination of acoustical nonlinear parameter \hat{l}^2 of water using the finite amplitude method. Ultrasonics, 2013, 53, 1012-1019. | 2.1 | 35 |
| 8 | High-temperature phase transitions in CsH2PO4 under ambient and high-pressure conditions: A synchrotron x-ray diffraction study. Journal of Chemical Physics, 2007, 127, 194701. | 1.2 | 31 |
| 9 | Digital ultrasonic pulse-echo overlap system and algorithm for unambiguous determination of pulse transit time. Review of Scientific Instruments, 2005, 76, 114902. | 0.6 | 26 |
| 10 | High-pressure neutron diffraction studies at LANSCE. Applied Physics A: Materials Science and Processing, 2010, 99, 585-599. | 1.1 | 24 |
| 11 | Kinetics of SiC formation during high P–T reaction between diamond and silicon. Diamond and Related Materials, 2005, 14, 1611-1615. | 1.8 | 22 |
| 12 | Low-frequency ultrasonic Bessel-like collimated beam generation from radial modes of piezoelectric transducers. Applied Physics Letters, 2017, 110 , . | 1.5 | 22 |
| 13 | Structural Influence of Erbium Centers on Silicon Nanocrystal Phase Transitions. Physical Review Letters, 2004, 93, 175502. | 2.9 | 20 |
| 14 | Ultrasonic Bessel beam generation from radial modes of piezoelectric discs. Ultrasonics, 2019, 96, 140-148. | 2.1 | 17 |
| 15 | Radial modes of laterally stiffened piezoelectric disc transducers for ultrasonic collimated beam generation. Wave Motion, 2018, 76, 19-27. | 1.0 | 13 |
| 16 | Development of high P–T neutron diffraction at LANSCE – toroidal anvil press, TAP-98, in the HiPPO diffractometer. , 2005, , 461-474. | | 12 |
| 17 | Broadband unidirectional ultrasound propagation using sonic crystal and nonlinear medium. Emerging Materials Research, 2013, 2, 117-126. | 0.4 | 11 |
| 18 | A broadband wavelet implementation for rapid ultrasound pulse-echo time-of-flight measurements. Review of Scientific Instruments, 2020, 91, 075115. | 0.6 | 9 |

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| 19 | Evaluation of the transmission line model for couplant layer corrections in pulse-echo measurements. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2013, 60, 943-953. | 1.7 | 8 |
| 20 | Noninvasive Acoustic Measurements in Cylindrical Shell Containers. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 68, 2251-2258. | 1.7 | 8 |
| 21 | A Physics-Based Signal Processing Approach for Noninvasive Ultrasonic Characterization of Multiphase Oil–Water–Gas Flows in a Pipe. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 68, 1328-1346. | 1.7 | 7 |
| 22 | Ultrasonic waves from radial mode excitation of a piezoelectric disc on the surface of an elastic solid. Smart Materials and Structures, 2020, 29, 085002. | 1.8 | 7 |
| 23 | An acoustic resonance measurement cell for liquid property determinations up to 250 °C. Review of Scientific Instruments, 2012, 83, 115106. | 0.6 | 6 |
| 24 | Resonant Ultrasound Spectroscopy studies of Berea sandstone at high temperature. Journal of Geophysical Research: Solid Earth, 2016, 121, 6401-6410. | 1.4 | 6 |
| 25 | Ultrasonic sensing for noninvasive characterization of oil-water-gas flow in a pipe. AIP Conference Proceedings, 2017, , . | 0.3 | 6 |
| 26 | On the in-plane vibrations and electromechanical resonance characteristics of non-uniformly polarized rectangular piezoelectric wafers: Selective mode-type excitation and specific mode enhancement. Journal of Sound and Vibration, 2021, 506, 116129. | 2.1 | 6 |
| 27 | The acoustic nonlinearity parameter in Fluorinert up to 381 K and 13.8 MPa. Journal of the Acoustical Society of America, 2015, 138, EL31-EL35. | 0.5 | 5 |
| 28 | Measured sound speeds and acoustic nonlinearity parameter in liquid water up to 523 K and 14 MPa. AlP Advances, 2016, 6 , $.$ | 0.6 | 5 |
| 29 | Acoustic Characterization of Fluorinert FC-43 Liquid with Helium Gas Bubbles: Numerical Experiments. Shock and Vibration, 2017, 2017, 1-7. | 0.3 | 4 |
| 30 | Full-waveform inversion and least-squares reverse-time migration imaging of collimated ultrasonic-beam data for high-resolution wellbore integrity monitoring. Applied Physics Letters, 2018, 113, . | 1.5 | 4 |
| 31 | Multi-Level Information Storage Using Engineered Electromechanical Resonances of Piezoelectric Wafers: A Concept Piezoelectric Quick Response (PQR) Code. Sensors, 2020, 20, 6344. | 2.1 | 4 |
| 32 | Engineering the beat phenomenon of quasi-Rayleigh waves for regions with minimal Surface Acoustic Wave (SAW) amplitude. Journal of Sound and Vibration, 2021, 515, 116444. | 2.1 | 4 |
| 33 | Determination of the acoustic nonlinearity parameter in liquid water up to 250& $\#$ x00B0; C and 14 MPa., 2012, , . | | 3 |
| 34 | The effect of a transducer's spatial averaging on an elastodynamic guided wave's wavenumber spectrum. Ultrasonics, 2021, 114, 106422. | 2.1 | 3 |
| 35 | Acoustic Nonlinearity in Fluorinert FC-43. Proceedings of Meetings on Acoustics, 2009, , . | 0.3 | 2 |
| 36 | Creating a collimated ultrasound beam in highly attenuating fluids. Ultrasonics, 2012, 52, 564-570. | 2.1 | 2 |

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| 37 | Collimated acoustic beams from radial modes of piezoelectric disc transducers. AIP Conference Proceedings, 2019, , . | 0.3 | 2 |
| 38 | Multilevel Frequency-Specific Information Storage Using Engineered Electromechanical Resonances in Piezoelectric Wafer Arrays. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2022, 69, 1392-1398. | 1.7 | 2 |
| 39 | Beam Profile Characterization for Thickness Mode Transducers versus Radial Modes. , 2019, , . | | 1 |
| 40 | Electromechanical response of laterally clamped piezoelectric wafers: Absence of in-plane mechanical resonances in the electromechanical impedance spectrum. Applied Acoustics, 2022, 188, 108545. | 1.7 | 1 |
| 41 | Broadband directional ultrasound propagation using sonic crystal and nonlinear medium. Proceedings of Meetings on Acoustics, 2013, , . | 0.3 | 0 |
| 42 | Broad-band acoustic low frequency collimated beam for ultrasonic imaging. Proceedings of Meetings on Acoustics, $2013, \ldots$ | 0.3 | 0 |
| 43 | High frequency signal acquisition using a smartphone in an undergraduate teaching laboratory: Applications in ultrasonic resonance spectra. Journal of the Acoustical Society of America, 2016, 140, 2810-2816. | 0.5 | 0 |
| 44 | Low-frequency ultrasonic collimated beam generation from piezoelectric discs. Proceedings of Meetings on Acoustics, 2017, , . | 0.3 | 0 |
| 45 | Development of a 3D Acoustic Borehole Integrity Monitoring System. , 2019, , . | | 0 |
| 46 | Tuning the Relative Strengths of Electromechanical Resonances Using Non-Uniform Polarization of Piezoelectric Wafers. IEEE Open Journal of Ultrasonics, Ferroelectrics, and Frequency Control, 2022, 2, 17-29. | 0.9 | 0 |