List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Yellow luminescence and related deep states in undoped GaN. Physical Review B, 1997, 55, 4689-4694. | 3.2 | 203 |
| 2 | Trapping Effects in the Transient Response of AlGaN/GaN HEMT Devices. IEEE Transactions on Electron Devices, 2007, 54, 410-417. | 3.0 | 184 |
| 3 | The influence of sputter deposition parameters on piezoelectric and mechanical properties of AlN thin films. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2010, 172, 253-258. | 3.5 | 149 |
| 4 | Piezoelectric MEMS resonator-based oscillator for density and viscosity sensing. Sensors and Actuators A: Physical, 2014, 220, 305-315. | 4.1 | 84 |
| 5 | Tailoring of internal fields in InGaAs/GaAs multiwell structures grown on (111)B GaAs. Applied Physics Letters, 1993, 63, 752-754. | 3.3 | 77 |
| 6 | Dependence on the In concentration of the piezoelectric field in (111)B InGaAs/GaAs strained heterostructures. Applied Physics Letters, 1994, 65, 2042-2044. | 3.3 | 68 |
| 7 | Polarization fields determination in AlGaN/GaN heterostructure field-effect transistors from charge control analysis. Applied Physics Letters, 1999, 75, 2407-2409. | 3.3 | 65 |
| 8 | Annealing effects on the crystal structure of GalnNAs quantum wells with large In and N content grown by molecular beam epitaxy. Journal of Applied Physics, 2003, 94, 2319-2324. | 2.5 | 60 |
| 9 | Design-dependent performance of self-actuated and self-sensing piezoelectric-AlN cantilevers in liquid media oscillating in the fundamental in-plane bending mode. Sensors and Actuators B: Chemical, 2014, 200, 235-244. | 7.8 | 58 |
| 10 | Modal optimization and filtering in piezoelectric microplate resonators. Journal of Micromechanics and Microengineering, 2010, 20, 055027. | 2.6 | 57 |
| 11 | Piezoelectric-field effects on transition energies, oscillator strengths, and level widths in (111)B-grown (In,Ga)As/GaAs multiple quantum wells. Physical Review B, 1993, 48, 8491-8494. | 3.2 | 49 |
| 12 | Characterization of a roof tile-shaped out-of-plane vibrational mode in aluminum-nitride-actuated self-sensing micro-resonators for liquid monitoring purposes. Applied Physics Letters, 2014, 104, . | 3.3 | 49 |
| 13 | c-axis orientation and piezoelectric coefficients of AlN thin films sputter-deposited on titanium bottom electrodes. Applied Surface Science, 2012, 259, 59-65. | 6.1 | 46 |
| 14 | Application of quartz tuning forks and extensional microresonators for viscosity and density measurements in oil/fuel mixtures. Microsystem Technologies, 2014, 20, 945-953. | 2.0 | 44 |
| 15 | Conductionâ€band engineering in piezoelectric [111] multiple quantum wellpâ€iâ€nphotodiodes. Applied Physics Letters, 1994, 65, 2214-2216. | 3.3 | 42 |
| 16 | Simulation and laser vibrometry characterization of piezoelectric AlN thin films. Journal of Applied Physics, 2008, 104, . | 2.5 | 42 |
| 17 | Characterization and simulation of the first extensional mode of rectangular micro-plates in liquid media. Applied Physics Letters, 2012, 101, . | 3.3 | 42 |
| 18 | Flow-through sensor based on piezoelectric MEMS resonator for the in-line monitoring of wine fermentation. Sensors and Actuators B: Chemical, 2018, 254, 291-298. | 7.8 | 41 |

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Techniques to minimizeDXcenter deleterious effects in Illâ€V device performance. Journal of Applied Physics, 1993, 73, 4988-4997. | 2.5 | 34 |
| 20 | Room―and lowâ€ŧemperature assessment of pseudomorphic AlGaAs/InGaAs/GaAs highâ€electronâ€mobility transistor structures by photoluminescence spectroscopy. Journal of Applied Physics, 1994, 76, 5931-5944. | 2.5 | 34 |
| 21 | Tailoring of internal fields in AlGaN/GaN and InGaN/GaN heterostructure devices. Physical Review B, 2000, 61, 2773-2778. | 3.2 | 34 |
| 22 | Analysis of the quality factor of AlN-actuated micro-resonators in air and liquid. Microsystem Technologies, 2010, 16, 837-845. | 2.0 | 34 |
| 23 | Temperature dependent performance of piezoelectric MEMS resonators for viscosity and density determination of liquids. Journal of Micromechanics and Microengineering, 2015, 25, 105014. | 2.6 | 31 |
| 24 | Laser vibrometry and impedance characterization of piezoelectric microcantilevers. Journal of Micromechanics and Microengineering, 2007, 17, 931-937. | 2.6 | 29 |
| 25 | <i>Q</i> -factor enhancement for self-actuated self-sensing piezoelectric MEMS resonators applying a lock-in driven feedback loop. Journal of Micromechanics and Microengineering, 2013, 23, 085009. | 2.6 | 29 |
| 26 | Simulation of surface state effects in the transient response of AlGaN/GaN HEMT and GaN MESFET devices. Semiconductor Science and Technology, 2006, 21, 1150-1159. | 2.0 | 28 |
| 27 | Enhanced carrier densities and device performance in piezoelectric pseudomorphic highâ€electron mobility transistor structures. Applied Physics Letters, 1992, 61, 1072-1074. | 3.3 | 27 |
| 28 | Photoluminescence characterization of gated pseudomorphic AlGaAs/InGaAs/GaAs modulationâ€doped fieldâ€effect transistors. Applied Physics Letters, 1992, 61, 1225-1227. | 3.3 | 26 |
| 29 | Design and characterization of AlN-based in-plane microplate resonators. Journal of Micromechanics and Microengineering, 2013, 23, 074003. | 2.6 | 25 |
| 30 | Characterisation of multi roof tile-shaped out-of-plane vibrational modes in aluminium-nitride-actuated self-sensing micro-resonators in liquid media. Applied Physics Letters, 2015, 107, . | 3.3 | 25 |
| 31 | Piezoelectric MEMS Resonators for Cigarette Particle Detection. Micromachines, 2019, 10, 145. | 2.9 | 25 |
| 32 | Motion of a Legged Bidirectional Miniature Piezoelectric Robot Based on Traveling Wave Generation. Micromachines, 2020, 11, 321. | 2.9 | 25 |
| 33 | Screening of non-polar heterocyclic amines in urine by microextraction in packed sorbent-fluorimetric detection and confirmation by capillary liquid chromatography. Talanta, 2011, 83, 1562-1567. | 5.5 | 24 |
| 34 | Low-cost and portable refractive optoelectronic device for measuring wine fermentation kinetics. Sensors and Actuators B: Chemical, 2013, 178, 316-323. | 7.8 | 24 |
| 35 | Optimal design of robust piezoelectric unimorph microgrippers. Applied Mathematical Modelling, 2018, 55, 1-12. | 4.2 | 24 |
| 36 | Low frequency noise and screening effects in AlGaN/GaN HEMTs. Electronics Letters, 1998, 34, 2357. | 1.0 | 23 |

| # | Article | IF | CITATIONS |
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| 37 | Comparison of in-plane and out-of-plane piezoelectric microresonators for real-time monitoring of engine oil contamination with diesel. Microsystem Technologies, 2016, 22, 1781-1790. | 2.0 | 23 |
| 38 | Behaviour of forbidden modes in the impedance characterization and modeling of piezoelectric microcantilevers. Sensors and Actuators A: Physical, 2007, 136, 417-425. | 4.1 | 21 |
| 39 | Design of in-plane piezoelectric sensors for static response by simultaneously optimizing the host structure and the electrode profile. Structural and Multidisciplinary Optimization, 2013, 48, 1023-1026. | 3.5 | 21 |
| 40 | Photoinhibition of the quantum confined Stark effect in piezoelectric multiple quantum wells. Physical Review B, 1996, 53, 15469-15472. | 3.2 | 20 |
| 41 | Observation of non-trigonal lattice distortion in pseudomorphic InGaAs/GaAs superlattices grown on misoriented (111)B GaAs. Journal of Applied Physics, 1997, 82, 3297-3305. | 2.5 | 20 |
| 42 | Determination of the pyroelectric coefficient in strained InGaAs/GaAs quantum wells grown on (111)B GaAs substrates. Journal of Applied Physics, 2001, 90, 915-917. | 2.5 | 20 |
| 43 | Quality-factor amplification in piezoelectric MEMS resonators applying an all-electrical feedback loop. Journal of Micromechanics and Microengineering, 2011, 21, 025007. | 2.6 | 20 |
| 44 | Lock-in amplifier powered analogue Q-control circuit for self-actuated self-sensing piezoelectric MEMS resonators. Microsystem Technologies, 2014, 20, 615-625. | 2.0 | 19 |
| 45 | Comparison of two types of acoustic biosensors to detect immunoreactions: Love-wave sensor working in dynamic mode and QCM working in static mode. Sensors and Actuators B: Chemical, 2013, 189, 123-129. | 7.8 | 18 |
| 46 | Piezoelectric resonators and oscillator circuit based on higher-order out-of-plane modes for density-viscosity measurements of liquids. Journal of Micromechanics and Microengineering, 2016, 26, 084012. | 2.6 | 18 |
| 47 | Nonlinear optical response, screening, and distribution of strain in piezoelectric multiple quantum wells. Journal of Applied Physics, 1994, 76, 7870-7873. | 2.5 | 17 |
| 48 | Modelling and characterization of AlN-actuated microcantilevers vibrating in the first in-plane mode. Microsystem Technologies, 2012, 18, 997-1001. | 2.0 | 17 |
| 49 | Roof tile-shaped modes in quasi free–free supported piezoelectric microplate resonators in high viscous fluids. Sensors and Actuators B: Chemical, 2016, 237, 999-1006. | 7.8 | 17 |
| 50 | Potential of Piezoelectric MEMS Resonators for Grape Must Fermentation Monitoring. Micromachines, 2017, 8, 200. | 2.9 | 17 |
| 51 | Inâ€well screening nonlinearities in piezoelectric multiple quantum wells. Applied Physics Letters, 1995, 67, 950-952. | 3.3 | 16 |
| 52 | Effect of nitrogen on the band structure and material gain of In/sub y/Ga/sub 1-y/As/sub 1-x/N/sub x/-GaAs quantum wells. IEEE Journal of Selected Topics in Quantum Electronics, 2003, 9, 716-722. | 2.9 | 16 |
| 53 | Viscous and acoustic losses in length-extensional microplate resonators in liquid media. Applied Physics Letters, 2015, 106, . | 3.3 | 16 |
| 54 | Carrier and screening dynamics in strained [111]â€oriented multiple quantum wells. Applied Physics Letters, 1995, 66, 857-859. | 3.3 | 15 |

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| 55 | Strained layer (111)B GaAs/InGaAs single quantum well lasers and the dependence of their characteristics upon indium composition. Journal of Applied Physics, 2001, 89, 4689-4696. | 2.5 | 15 |
| 56 | 2D simulation of static surface states in AlGaN/GaN HEMT and GaN MESFET devices. Semiconductor Science and Technology, 2005, 20, 864-869. | 2.0 | 15 |
| 57 | Piezoelectric MEMS resonators for monitoring grape must fermentation. Journal of Physics: Conference Series, 2016, 757, 012020. | 0.4 | 15 |
| 58 | Influence of deltaâ€doping profile and interface roughness on the transport properties of pseudomorphic heterostructures. Applied Physics Letters, 1994, 64, 907-909. | 3.3 | 14 |
| 59 | Characterization and analytical validation of a microcantilever-based sensor for the determination of total carbonate in soil samples. Sensors and Actuators B: Chemical, 2008, 134, 245-251. | 7.8 | 14 |
| 60 | GaAs-based modulation-doped quantum-well infrared photodetectors for single- and two-color detection in 3-5 μm. IEEE Journal of Selected Topics in Quantum Electronics, 2002, 8, 992-997. | 2.9 | 13 |
| 61 | Modulation-doping in 3–5 μm GaAs/AlAs/AlGaAs double barrier quantum well infrared photodetectors: an alternative to achieve high photovoltaic performance and high temperature detection. Infrared Physics and Technology, 2003, 44, 383-390. | 2.9 | 13 |
| 62 | High-resolution low-cost optoelectronic instrument for supervising grape must fermentation. Microsystem Technologies, 2014, 20, 769-782. | 2.0 | 13 |
| 63 | Reusable chromium-coated quartz crystal microbalance for immunosensing. Colloids and Surfaces B: Biointerfaces, 2011, 88, 191-195. | 5.0 | 12 |
| 64 | Temperature dependence of grape must refractive index and its application to winemaking monitoring. Sensors and Actuators B: Chemical, 2016, 225, 121-127. | 7.8 | 12 |
| 65 | Highâ€resolution xâ€ray diffraction study of piezoelectric InGaAs/GaAs multiquantum well pâ€iâ€n photodiodes grown on (111)B GaAs. Applied Physics Letters, 1996, 69, 1574-1576. | 3.3 | 11 |
| 66 | Growth and characterization of a bound-to-quasi-continuum QWIP with Al-graded triangular confinement barriers. IEEE Photonics Technology Letters, 1999, 11, 1650-1652. | 2.5 | 11 |
| 67 | A Geometrical Study on the Roof Tile-Shaped Modes in AlN-Based Piezoelectric Microcantilevers as Viscosity–Density Sensors. Sensors, 2019, 19, 658. | 3.8 | 11 |
| 68 | Piezoelectric MEMS Linear Motor for Nanopositioning Applications. Actuators, 2021, 10, 36. | 2.3 | 11 |
| 69 | Comparative Study of Traveling and Standing Wave-Based Locomotion of Legged Bidirectional Miniature Piezoelectric Robots. Micromachines, 2021, 12, 171. | 2.9 | 11 |
| 70 | Growth and characterization of (111)B InGaAs/GaAs multi-quantum well PIN diode structures. Journal of Electronic Materials, 1994, 23, 975-982. | 2.2 | 10 |
| 71 | Characterization and displacement control of low surface-stress AlN-based piezoelectric micro-resonators. Microsystem Technologies, 2010, 16, 855-861. | 2.0 | 10 |
| 72 | Fourier transform mechanical spectroscopy of micro-fabricated electromechanical resonators: A novel, information-rich pulse method for sensor applications. Sensors and Actuators B: Chemical, 2010, 147, 508-516. | 7.8 | 10 |

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|----|--|-----|-----------|
| 73 | Control of MEMS Vibration Modes With Pulsed Digital Oscillators—Part II: Simulation and Experimental Results. IEEE Transactions on Circuits and Systems I: Regular Papers, 2010, 57, 1879-1890. | 5.4 | 10 |
| 74 | Selective modal excitation in coupled piezoelectric microcantilevers. Microsystem Technologies, 2012, 18, 917-924. | 2.0 | 10 |
| 75 | Modelling out-of-plane and in-plane resonant modes of microplates in liquid media. Journal of Micromechanics and Microengineering, 2015, 25, 074005. | 2.6 | 10 |
| 76 | Design and Characterization of In-Plane Piezoelectric Microactuators. Actuators, 2017, 6, 19. | 2.3 | 10 |
| 77 | Optical investigation of the relaxation process in InGaAs/GaAs single strained quantum wells grown on (001) and (111)B GaAs substrates. Microelectronics Journal, 1999, 30, 363-366. | 2.0 | 9 |
| 78 | Polarization Field Determination in AlGaN/GaN HFETs. Physica Status Solidi A, 1999, 176, 195-199. | 1.7 | 9 |
| 79 | Optoelectronic sensor device for monitoring the maceration of red wine: Design issues and validation. Measurement: Journal of the International Measurement Confederation, 2015, 63, 128-136. | 5.0 | 9 |
| 80 | Design of piezoelectric microtransducers based on the topology optimization method. Microsystem Technologies, 2016, 22, 1733-1740. | 2.0 | 9 |
| 81 | Calibration procedure for piezoelectric MEMS resonators to determine simultaneously density and viscosity of liquids. Microsystem Technologies, 2018, 24, 1423-1431. | 2.0 | 9 |
| 82 | Tunable mechanical resonator with aluminium nitride piezoelectric actuation. , 2006, 6186, 185. | | 8 |
| 83 | Piezoelectric micro-scale tuning fork resonators for sensing applications. , 2011, , . | | 8 |
| 84 | Modelling and characterization of the roof tile-shaped modes of AlN-based cantilever resonators in liquid media. Journal of Micromechanics and Microengineering, 2016, 26, 084008. | 2.6 | 8 |
| 85 | Spectroscopic study of piezo-electric field effects in InGaAs/GaAs multi-quantum wells grown on (111)B oriented GaAs substrates. Solid-State Electronics, 1994, 37, 645-648. | 1.4 | 7 |
| 86 | Piezoelectric field determination in strained InGaAs quantum wells grown on [111]B GaAs substrates by differential photocurrent. Microelectronics Journal, 1999, 30, 439-444. | 2.0 | 7 |
| 87 | Dominant carrier recombination mechanisms in GalnNAsâ^•GaAs quantum well light-emitting diodes. Applied Physics Letters, 2004, 85, 40-42. | 3.3 | 7 |
| 88 | Piezoelectric Properties of Sputtered AlN Thin Films and their Applications. Advances in Science and Technology, 0, , . | 0.2 | 7 |
| 89 | Multi-purpose optoelectronic instrument for monitoring the alcoholic fermentation of wine. , 2011, , | | 7 |
| 90 | Bidirectional Linear Motion by Travelling Waves on Legged Piezoelectric Microfabricated Plates. Micromachines, 2020, 11, 517. | 2.9 | 7 |

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| 91 | Design and characterization of (111)B InGaAs/GaAs piezoelectric superlattices. Semiconductor Science and Technology, 1995, 10, 1173-1176. | 2.0 | 6 |
| 92 | Perâ€carrier nonlinear optical response of [111]â€oriented piezoelectric InGaAs/GaAs multiple quantum wells. Journal of Applied Physics, 1996, 79, 417-423. | 2.5 | 6 |
| 93 | Piezoelectric InGaAs/GaAs (111)B multiple quantum well photodiodes: optoelectronic properties by electron beam induced current and cathodoluminescence. Microelectronics Journal, 1999, 30, 413-417. | 2.0 | 6 |
| 94 | Effect of indium content on the normal-incident photoresponse of InGaAs/GaAs quantum-well infrared photodetectors. Applied Physics Letters, 2001, 78, 2390-2392. | 3.3 | 6 |
| 95 | Resonantly excited AlN-based microcantilevers for immunosensing. Microsystem Technologies, 2012, 18, 1089-1094. | 2.0 | 6 |
| 96 | Compression of redundancy free trellis stages in turboâ€decoder. Electronics Letters, 2013, 49, 460-462. | 1.0 | 6 |
| 97 | Piezoelectric MEMS resonators for density and viscosity sensing in engine oil with diesel fuel. , 2015, , | | 6 |
| 98 | Multi roof tile-shaped vibration modes in mems cantilever sensors for liquid monitoring purposes. , 2015, , . | | 6 |
| 99 | Generation of Linear Traveling Waves in Piezoelectric Plates in Air and Liquid. Micromachines, 2019, 10, 283. | 2.9 | 6 |
| 100 | 3D-Printed Miniature Robots with Piezoelectric Actuation for Locomotion and Steering Maneuverability Applications. Actuators, 2021, 10, 335. | 2.3 | 6 |
| 101 | Probing resonant tunneling and charge accumulation via capacitance measurements in [111]-oriented MQW and superlattices. Solid-State Electronics, 1996, 40, 591-595. | 1.4 | 5 |
| 102 | Optical characterisation of quantum well infra-red detector structures. IEE Proceedings: Optoelectronics, 1999, 146, 89-92. | 0.8 | 5 |
| 103 | Characterization and simulation of high-quality AlN-actuated resonant suspended beams. , 2009, , . | | 5 |
| 104 | Piezoelectric in-plane microplate resonators based on contour and flexure-actuated modes. Microsystem Technologies, 2014, 20, 691-699. | 2.0 | 5 |
| 105 | Piezoelectric Actuators for Tactile and Elasticity Sensing. Actuators, 2020, 9, 21. | 2.3 | 5 |
| 106 | 3D-Printed Liquid Cell Resonator with Piezoelectric Actuation for In-Line Density-Viscosity Measurements. Sensors, 2021, 21, 7654. | 3.8 | 5 |
| 107 | Transient negative photocurrent and out-of-well dipole kinetics in novel piezoelectric MQW pin diodes. Solid-State Electronics, 1996, 40, 463-467. | 1.4 | 4 |
| 108 | Relaxation study of InxGa1â^'xAs/GaAs quantum-well structures grown by MBE on (001) and (111)B GaAs for long wavelength applications. Journal of Crystal Growth, 1999, 206, 287-293. | 1.5 | 4 |

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| 109 | Modulation-doped double-barrier quantum well infrared detectors for photovoltaic operation in 3-5 μm. IEEE Photonics Technology Letters, 2003, 15, 105-107. | 2.5 | 4 |
| 110 | Advanced determination of piezoelectric properties of AlN thin films on silicon substrates. , 2008, , . | | 4 |
| 111 | Quality factor enhancement in AlN-actuated MEMS by velocity feedback loop. Procedia Engineering, 2010, 5, 1494-1497. | 1.2 | 4 |
| 112 | Electrical characterization of micromachined AlN resonators at various back pressures. Microsystem Technologies, 2014, 20, 663-670. | 2.0 | 4 |
| 113 | Simplified Compression of Redundancy Free Trellis Sections in Turbo Decoder. IEEE Communications Letters, 2014, 18, 941-944. | 4.1 | 4 |
| 114 | Optoelectronic sensor device for monitoring ethanol concentration in winemaking applications. Proceedings of SPIE, 2015, , . | 0.8 | 4 |
| 115 | Sequential tunneling in [100]―and [111]â€oriented InGaAs/GaAs multiâ€quantum wells by photocapacitance. Applied Physics Letters, 1995, 66, 2223-2225. | 3.3 | 3 |
| 116 | Displacement photocurrents and screening effects in novel piezoelectric InGaAs/GaAs multiple-quantum-well P-I-N diodes. Semiconductor Science and Technology, 1995, 10, 1528-1533. | 2.0 | 3 |
| 117 | Memory effects on piezoelectric InGaAs/GaAs MQW PIN diodes. Microelectronics Journal, 1997, 28, 757-765. | 2.0 | 3 |
| 118 | Voltage-tunable two-colour quantum well infrared detector with Al-graded triangular confinement barriers. Semiconductor Science and Technology, 2001, 16, 285-288. | 2.0 | 3 |
| 119 | On the growth conditions of 3–5 μm well-doped AlGaAs/AlAs/GaAs infrared detectors and its relation to the photovoltaic effect studied by transmission electron microscopy. Infrared Physics and Technology, 2003, 44, 391-398. | 2.9 | 3 |
| 120 | Piezoelectric modal sensors/actuators based on microplates applying surface electrode patterning. , 2009, , . | | 3 |
| 121 | Multimodal characterisation of high―Q piezoelectric microâ€ŧuning forks. IET Circuits, Devices and Systems, 2013, 7, 361-367. | 1.4 | 3 |
| 122 | Piezoelectric response optimization of multi roof tile-shaped modes in MEMS resonators by variation of the support boundary conditions. , 2015, , . | | 3 |
| 123 | Out-of-plane piezoelectric microresonator and oscillator circuit for monitoring engine oil contamination with diesel. Proceedings of SPIE, 2015, , . | 0.8 | 3 |
| 124 | In-liquid characterization of in-plane and high order out-of-plane modes of AlN-based square microplates. Microsystem Technologies, 2016, 22, 1701-1708. | 2.0 | 3 |
| 125 | Charge accumulation effects in InGaAs/GaAs [111]-oriented piezoelectric multiple quantum wells. Microelectronics Journal, 1997, 28, 767-775. | 2.0 | 2 |
| 126 | <title>Simulation, fabrication, and testing of aluminium nitride piezoelectric microbridges</title> . , 2005, , . | | 2 |

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| 127 | Resonance frequencies and modal shape characterization of piezoelectric microcantilevers. , 2007, , . | | 2 |
| 128 | Origin of the Increasing Access Resistance in AlGaN/GaN HEMTs. , 2008, , . | | 2 |
| 129 | Comparison between AlN thin films with different crystal orientations for MEMS applications. Proceedings of SPIE, 2009, , . | 0.8 | 2 |
| 130 | Hysteresis correction of tactile sensor response with a generalized Prandtl-Ishlinskii model. Proceedings of SPIE, 2011, , . | 0.8 | 2 |
| 131 | Piezoelectric AlN-actuated micro-tuning forks for sensing applications. Proceedings of SPIE, 2011, , . | 0.8 | 2 |
| 132 | Comparison of quartz tuning forks and AlN-based extensional microresonators for viscosity measurements in oil/fuel mixtures. , 2013, , . | | 2 |
| 133 | Density-viscosity sensor based on piezoelectric MEMS resonator and oscillator circuit. , 2014, , . | | 2 |
| 134 | Two-step procedure for multi-mode MEMS resonator-based sensing of fluid properties. , 2017, , . | | 2 |
| 135 | Linear Motors Based on Piezoelectric MEMS. , 0, , . | | 2 |
| 136 | Conduction band engineering in InGaAs/GaAs [111] multiple quantum well p-i-n photodiodes. Superlattices and Microstructures, 1993, 14, 287. | 3.1 | 1 |
| 137 | Strained piezoelectric [111] multiple quantum wells: clamped or free?. Superlattices and Microstructures, 1994, 15, 171. | 3.1 | 1 |
| 138 | Influence of substrate misorientation on the optical and structural properties of InGaAs/GaAs single strained quantum wells grown on (111)B GaAs by molecular beam epitaxy. Microelectronics Journal, 1999, 30, 373-378. | 2.0 | 1 |
| 139 | Spontaneous emission study of (111) InGaAs/GaAs quantum well lasers. Microelectronics Journal, 2002, 33, 589-593. | 2.0 | 1 |
| 140 | Simulation and characterization of interdigitated microsensor electrodes for DNA detection. , 2005, , | | 1 |
| 141 | Pulsed digital oscillators as a tool for the selective activation of MEMS resonant modes. , 2010, , . | | 1 |
| 142 | Characterization of the first in-plane mode of AlN-actuated microcantilevers. , 2011, , . | | 1 |
| 143 | Resonant piezoelectric AlN-actuated microcantilevers for detection of antigen/antibody interactions. Proceedings of SPIE, 2011, , . | 0.8 | 1 |
| 144 | Lock-in driven quality factor enhancement with parasitic effect compensation of a self-actuated piezoelectric MEMS cantilever. , 2012, , . | | 1 |

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| 145 | Quality factor enhancement for resonant MEMS applying an analogue feedback circuit driven by a lock-in amplifier. , 2013, , . | | 1 |
| 146 | Pressure dependence of the quality factor of piezoelectrically driven AlN/Si-microcantilevers. Proceedings of SPIE, 2013, , . | 0.8 | 1 |
| 147 | High-precision optoelectronic sensor device for monitoring fermentation kinetics and maceration of wine. Proceedings of SPIE, 2013, , . | 0.8 | 1 |
| 148 | Selected papers from the 26th Micromechanics and Microsystems Europe Workshop (MME 2015). Journal of Micromechanics and Microengineering, 2016, 26, 080301. | 2.6 | 1 |
| 149 | Optoelectronic sensor for measuring ethanol content during grape must fermentation using NIR spectroscopy. Microsystem Technologies, 2016, 22, 1799-1809. | 2.0 | 1 |
| 150 | Optimal design of a microgripper-type actuator based on AlN/Si heterogeneous bimorph. Proceedings of SPIE, 2017, , . | 0.8 | 1 |
| 151 | Comparative assessment of PVDF and PVDF-TrFE piezoelectric polymers for flexible actuators applications. , 2017, , . | | 1 |
| 152 | Sub-gram in-plane vibration-driven robot with inclined legs. , 2020, 64, . | | 1 |
| 153 | High-resolution X-ray diffraction characterisation of piezoelectric InGaAs/GaAs multiquantum wells and superlattices on (111)B GaAs. Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics, 1997, 19, 329-337. | 0.4 | 0 |
| 154 | Application of high-resolution X-ray diffractornetry to the structural study of epitaxial multilayers on novel index surfaces. Microelectronics Journal, 1997, 28, 777-784. | 2.0 | 0 |
| 155 | Optoelectronic properties of 2-D and 3-D-grown GalnNAs//GaAs QW light emitting diodes and laser diodes. IEE Proceedings: Optoelectronics, 2004, 151, 421-425. | 0.8 | 0 |
| 156 | Sputtered polycrystalline AlN as a platform for biofunctionalized devices. , 2009, , . | | 0 |
| 157 | DNA accumulation on single-anode microelectrode structures and its application in active microarray layout design. Current Applied Physics, 2009, 9, 333-345. | 2.4 | 0 |
| 158 | Comparative Evaluation between Two Acoustic Immunosensors: Love-wave and QCM, and Systems of Measurement: Dynamic and Static. Procedia Engineering, 2012, 47, 174-177. | 1.2 | 0 |
| 159 | Contour and flexure-actuated in-plane modes of AlN-based piezoelectric vibrating MEMS. Proceedings of SPIE, 2013, , . | 0.8 | 0 |
| 160 | Optimal design of piezoelectric microtransducers for static response. , 2015, , . | | 0 |
| 161 | In-liquid characterization of high order out-of-plane modes in piezoelectric square plates. Proceedings of SPIE, 2015, , . | 0.8 | 0 |
| 162 | Special Issue of the Conferences â€~Smart Sensors, Actuators and MEMS', â€~Cyber-Physical Systems' and â€~Bio-MEMS and Medical Microdevices' within the SPIE EUROPE â€~MICROTECHNOLOGIES' Symposium Barcelona, Spain, 4–6 May 2015. Microsystem Technologies, 2016, 22, 1511-1512. | 1 2.0 | 0 |

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| 163 | Performance analysis of in-plane piezoelectric unimorph microactuators based on silicon and polymer substrates. Journal of Physics: Conference Series, 2017, 922, 012021. | 0.4 | 0 |
| 164 | Editorial of Special Issue "Piezoelectric Transducers: Materials, Devices and Applications― Micromachines, 2020, 11, 678. | 2.9 | 0 |
| 165 | Simulation and impedance characterization of piezoelectric micro cantilevers. , 2006, , . | | 0 |
| 166 | Fluid-structure interaction modelling of the roof tile-shaped modes in piezoelectric plate microresonators. Proceedings of SPIE, 2017, , . | 0.8 | 0 |
| 167 | Characterization of oscillator circuits for monitoring the density-viscosity of liquids by means of piezoelectric MEMS microresonators. Proceedings of SPIE, 2017, , . | 0.8 | 0 |
| 168 | Oscillator circuit for monitoring the gas damping effect of piezoelectric microresonators. , 2017, , . | | 0 |
| 169 | Thickness gradient related magnetic anisotropy of wedged Co nanocluster assemblies deposited on glass plates. Journal of Magnetism and Magnetic Materials, 2022, 547, 168888. | 2.3 | 0 |
| 170 | Tailored Magnetic Linear Birefringence in Wedge-Shaped Co Nanocluster Assemblies. Applied Sciences (Switzerland), 2022, 12, 100. | 2.5 | 0 |