

JosÃ© Luis SÃ¡nchez-Rojas

List of Publications by Year in descending order

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170
papers

2,756
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218677

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171
docs citations

171
times ranked

1910
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Tailored Magnetic Linear Birefringence in Wedge-Shaped Co Nanocluster Assemblies. Applied Sciences (Switzerland), 2022, 12, 100.	2.5	0
3	Piezoelectric MEMS Linear Motor for Nanopositioning Applications. Actuators, 2021, 10, 36.	2.3	11
4	Comparative Study of Traveling and Standing Wave-Based Locomotion of Legged Bidirectional Miniature Piezoelectric Robots. Micromachines, 2021, 12, 171.	2.9	11
5	3D-Printed Liquid Cell Resonator with Piezoelectric Actuation for In-Line Density-Viscosity Measurements. Sensors, 2021, 21, 7654.	3.8	5
6	3D-Printed Miniature Robots with Piezoelectric Actuation for Locomotion and Steering Maneuverability Applications. Actuators, 2021, 10, 335.	2.3	6
7	Editorial of Special Issue "Piezoelectric Transducers: Materials, Devices and Applications", Micromachines, 2020, 11, 678.	2.9	0
8	Piezoelectric Actuators for Tactile and Elasticity Sensing. Actuators, 2020, 9, 21.	2.3	5
9	Motion of a Legged Bidirectional Miniature Piezoelectric Robot Based on Traveling Wave Generation. Micromachines, 2020, 11, 321.	2.9	25
10	Bidirectional Linear Motion by Travelling Waves on Legged Piezoelectric Microfabricated Plates. Micromachines, 2020, 11, 517.	2.9	7
11	Sub-gram in-plane vibration-driven robot with inclined legs. , 2020, 64, .		1
12	Generation of Linear Traveling Waves in Piezoelectric Plates in Air and Liquid. Micromachines, 2019, 10, 283.	2.9	6
13	Piezoelectric MEMS Resonators for Cigarette Particle Detection. Micromachines, 2019, 10, 145.	2.9	25
14	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
15	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
16	Calibration procedure for piezoelectric MEMS resonators to determine simultaneously density and viscosity of liquids. Microsystem Technologies, 2018, 24, 1423-1431.	2.0	9
17	Optimal design of robust piezoelectric unimorph microgrippers. Applied Mathematical Modelling, 2018, 55, 1-12.	4.2	24
18	Two-step procedure for multi-mode MEMS resonator-based sensing of fluid properties. , 2017, , .		2

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19	Optimal design of a microgripper-type actuator based on AlN/Si heterogeneous bimorph. Proceedings of SPIE, 2017, , .	0.8	1
20	Comparative assessment of PVDF and PVDF-TrFE piezoelectric polymers for flexible actuators applications. , 2017, , .		1
21	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
22	Potential of Piezoelectric MEMS Resonators for Grape Must Fermentation Monitoring. Micromachines, 2017, 8, 200.	2.9	17
23	Design and Characterization of In-Plane Piezoelectric Microactuators. Actuators, 2017, 6, 19.	2.3	10
24	Fluid-structure interaction modelling of the roof tile-shaped modes in piezoelectric plate microresonators. Proceedings of SPIE, 2017, , .	0.8	0
25	Characterization of oscillator circuits for monitoring the density-viscosity of liquids by means of piezoelectric MEMS microresonators. Proceedings of SPIE, 2017, , .	0.8	0
26	Oscillator circuit for monitoring the gas damping effect of piezoelectric microresonators. , 2017, , .		0
27	Piezoelectric MEMS resonators for monitoring grape must fermentation. Journal of Physics: Conference Series, 2016, 757, 012020.	0.4	15
28	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
29	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
30	Special Issue of the Conferences "Smart Sensors, Actuators and MEMS", "Cyber-Physical Systems" and "Bio-MEMS and Medical Microdevices" within the SPIE EUROPE "MICROTECHNOLOGIES" Symposium Barcelona, Spain, 4-6 May 2015. Microsystem Technologies, 2016, 22, 1511-1512.	2.0	0
31	Design of piezoelectric microtransducers based on the topology optimization method. Microsystem Technologies, 2016, 22, 1733-1740.	2.0	9
32	Selected papers from the 26th Micromechanics and Microsystems Europe Workshop (MME 2015). Journal of Micromechanics and Microengineering, 2016, 26, 080301.	2.6	1
33	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
34	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
35	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
36	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

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37	Optoelectronic sensor for measuring ethanol content during grape must fermentation using NIR spectroscopy. <i>Microsystem Technologies</i> , 2016, 22, 1799-1809.	2.0	1
38	Characterisation of multi roof tile-shaped out-of-plane vibrational modes in aluminium-nitride-actuated self-sensing micro-resonators in liquid media. <i>Applied Physics Letters</i> , 2015, 107, .	3.3	25
39	Piezoelectric MEMS resonators for density and viscosity sensing in engine oil with diesel fuel. , 2015, , .		6
40	Optimal design of piezoelectric microtransducers for static response. , 2015, , .		0
41	Multi roof tile-shaped vibration modes in mems cantilever sensors for liquid monitoring purposes. , 2015, , .		6
42	Piezoelectric response optimization of multi roof tile-shaped modes in MEMS resonators by variation of the support boundary conditions. , 2015, , .		3
43	Out-of-plane piezoelectric microresonator and oscillator circuit for monitoring engine oil contamination with diesel. <i>Proceedings of SPIE</i> , 2015, , .	0.8	3
44	In-liquid characterization of high order out-of-plane modes in piezoelectric square plates. <i>Proceedings of SPIE</i> , 2015, , .	0.8	0
45	Modelling out-of-plane and in-plane resonant modes of microplates in liquid media. <i>Journal of Micromechanics and Microengineering</i> , 2015, 25, 074005.	2.6	10
46	Viscous and acoustic losses in length-extensional microplate resonators in liquid media. <i>Applied Physics Letters</i> , 2015, 106, .	3.3	16
47	Optoelectronic sensor device for monitoring ethanol concentration in winemaking applications. <i>Proceedings of SPIE</i> , 2015, , .	0.8	4
48	Temperature dependent performance of piezoelectric MEMS resonators for viscosity and density determination of liquids. <i>Journal of Micromechanics and Microengineering</i> , 2015, 25, 105014.	2.6	31
49	Optoelectronic sensor device for monitoring the maceration of red wine: Design issues and validation. <i>Measurement: Journal of the International Measurement Confederation</i> , 2015, 63, 128-136.	5.0	9
50	Characterization of a roof tile-shaped out-of-plane vibrational mode in aluminum-nitride-actuated self-sensing micro-resonators for liquid monitoring purposes. <i>Applied Physics Letters</i> , 2014, 104, .	3.3	49
51	Density-viscosity sensor based on piezoelectric MEMS resonator and oscillator circuit. , 2014, , .		2
52	High-resolution low-cost optoelectronic instrument for supervising grape must fermentation. <i>Microsystem Technologies</i> , 2014, 20, 769-782.	2.0	13
53	Electrical characterization of micromachined AlN resonators at various back pressures. <i>Microsystem Technologies</i> , 2014, 20, 663-670.	2.0	4
54	Piezoelectric in-plane microplate resonators based on contour and flexure-actuated modes. <i>Microsystem Technologies</i> , 2014, 20, 691-699.	2.0	5

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55	Lock-in amplifier powered analogue Q-control circuit for self-actuated self-sensing piezoelectric MEMS resonators. <i>Microsystem Technologies</i> , 2014, 20, 615-625.	2.0	19
56	Application of quartz tuning forks and extensional microresonators for viscosity and density measurements in oil/fuel mixtures. <i>Microsystem Technologies</i> , 2014, 20, 945-953.	2.0	44
57	Piezoelectric MEMS resonator-based oscillator for density and viscosity sensing. <i>Sensors and Actuators A: Physical</i> , 2014, 220, 305-315.	4.1	84
58	Design-dependent performance of self-actuated and self-sensing piezoelectric-AlN cantilevers in liquid media oscillating in the fundamental in-plane bending mode. <i>Sensors and Actuators B: Chemical</i> , 2014, 200, 235-244.	7.8	58
59	Simplified Compression of Redundancy Free Trellis Sections in Turbo Decoder. <i>IEEE Communications Letters</i> , 2014, 18, 941-944.	4.1	4
60	Design of in-plane piezoelectric sensors for static response by simultaneously optimizing the host structure and the electrode profile. <i>Structural and Multidisciplinary Optimization</i> , 2013, 48, 1023-1026.	3.5	21
61	Quality factor enhancement for resonant MEMS applying an analogue feedback circuit driven by a lock-in amplifier. , 2013, , .		1
62	Design and characterization of AlN-based in-plane microplate resonators. <i>Journal of Micromechanics and Microengineering</i> , 2013, 23, 074003.	2.6	25
63	Low-cost and portable refractive optoelectronic device for measuring wine fermentation kinetics. <i>Sensors and Actuators B: Chemical</i> , 2013, 178, 316-323.	7.8	24
64	Comparison of two types of acoustic biosensors to detect immunoreactions: Love-wave sensor working in dynamic mode and QCM working in static mode. <i>Sensors and Actuators B: Chemical</i> , 2013, 189, 123-129.	7.8	18
65	Pressure dependence of the quality factor of piezoelectrically driven AlN/Si-microcantilevers. <i>Proceedings of SPIE</i> , 2013, , .	0.8	1
66	Multimodal characterisation of high-Q piezoelectric micro-tuning forks. <i>IET Circuits, Devices and Systems</i> , 2013, 7, 361-367.	1.4	3
67	Compression of redundancy free trellis stages in turbo-decoder. <i>Electronics Letters</i> , 2013, 49, 460-462.	1.0	6
68	Q-factor enhancement for self-actuated self-sensing piezoelectric MEMS resonators applying a lock-in driven feedback loop. <i>Journal of Micromechanics and Microengineering</i> , 2013, 23, 085009.	2.6	29
69	High-precision optoelectronic sensor device for monitoring fermentation kinetics and maceration of wine. <i>Proceedings of SPIE</i> , 2013, , .	0.8	1
70	Comparison of quartz tuning forks and AlN-based extensional microresonators for viscosity measurements in oil/fuel mixtures. , 2013, , .		2
71	Contour and flexure-actuated in-plane modes of AlN-based piezoelectric vibrating MEMS. <i>Proceedings of SPIE</i> , 2013, , .	0.8	0
72	Lock-in driven quality factor enhancement with parasitic effect compensation of a self-actuated piezoelectric MEMS cantilever. , 2012, , .		1

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73	Comparative Evaluation between Two Acoustic Immunosensors: Love-wave and QCM, and Systems of Measurement: Dynamic and Static. <i>Procedia Engineering</i> , 2012, 47, 174-177.	1.2	0
74	c-axis orientation and piezoelectric coefficients of AlN thin films sputter-deposited on titanium bottom electrodes. <i>Applied Surface Science</i> , 2012, 259, 59-65.	6.1	46
75	Characterization and simulation of the first extensional mode of rectangular micro-plates in liquid media. <i>Applied Physics Letters</i> , 2012, 101, .	3.3	42
76	Selective modal excitation in coupled piezoelectric microcantilevers. <i>Microsystem Technologies</i> , 2012, 18, 917-924.	2.0	10
77	Modelling and characterization of AlN-actuated microcantilevers vibrating in the first in-plane mode. <i>Microsystem Technologies</i> , 2012, 18, 997-1001.	2.0	17
78	Resonantly excited AlN-based microcantilevers for immunosensing. <i>Microsystem Technologies</i> , 2012, 18, 1089-1094.	2.0	6
79	Multi-purpose optoelectronic instrument for monitoring the alcoholic fermentation of wine. , 2011, , .		7
80	Quality-factor amplification in piezoelectric MEMS resonators applying an all-electrical feedback loop. <i>Journal of Micromechanics and Microengineering</i> , 2011, 21, 025007.	2.6	20
81	Screening of non-polar heterocyclic amines in urine by microextraction in packed sorbent-fluorimetric detection and confirmation by capillary liquid chromatography. <i>Talanta</i> , 2011, 83, 1562-1567.	5.5	24
82	Characterization of the first in-plane mode of AlN-actuated microcantilevers. , 2011, , .		1
83	Hysteresis correction of tactile sensor response with a generalized Prandtl-Ishlinskii model. <i>Proceedings of SPIE</i> , 2011, , .	0.8	2
84	Piezoelectric AlN-actuated micro-tuning forks for sensing applications. <i>Proceedings of SPIE</i> , 2011, , .	0.8	2
85	Reusable chromium-coated quartz crystal microbalance for immunosensing. <i>Colloids and Surfaces B: Biointerfaces</i> , 2011, 88, 191-195.	5.0	12
86	Piezoelectric micro-scale tuning fork resonators for sensing applications. , 2011, , .		8
87	Resonant piezoelectric AlN-actuated microcantilevers for detection of antigen/antibody interactions. <i>Proceedings of SPIE</i> , 2011, , .	0.8	1
88	The influence of sputter deposition parameters on piezoelectric and mechanical properties of AlN thin films. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2010, 172, 253-258.	3.5	149
89	Analysis of the quality factor of AlN-actuated micro-resonators in air and liquid. <i>Microsystem Technologies</i> , 2010, 16, 837-845.	2.0	34
90	Characterization and displacement control of low surface-stress AlN-based piezoelectric micro-resonators. <i>Microsystem Technologies</i> , 2010, 16, 855-861.	2.0	10

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91	Quality factor enhancement in AlN-actuated MEMS by velocity feedback loop. <i>Procedia Engineering</i> , 2010, 5, 1494-1497.	1.2	4
92	Fourier transform mechanical spectroscopy of micro-fabricated electromechanical resonators: A novel, information-rich pulse method for sensor applications. <i>Sensors and Actuators B: Chemical</i> , 2010, 147, 508-516.	7.8	10
93	Pulsed digital oscillators as a tool for the selective activation of MEMS resonant modes. , 2010, , .		1
94	Modal optimization and filtering in piezoelectric microplate resonators. <i>Journal of Micromechanics and Microengineering</i> , 2010, 20, 055027.	2.6	57
95	Control of MEMS Vibration Modes With Pulsed Digital Oscillatorsâ€™Part II: Simulation and Experimental Results. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2010, 57, 1879-1890.	5.4	10
96	Characterization and simulation of high-quality AlN-actuated resonant suspended beams. , 2009, , .		5
97	Sputtered polycrystalline AlN as a platform for biofunctionalized devices. , 2009, , .		0
98	Comparison between AlN thin films with different crystal orientations for MEMS applications. <i>Proceedings of SPIE</i> , 2009, , .	0.8	2
99	DNA accumulation on single-anode microelectrode structures and its application in active microarray layout design. <i>Current Applied Physics</i> , 2009, 9, 333-345.	2.4	0
100	Piezoelectric modal sensors/actuators based on microplates applying surface electrode patterning. , 2009, , .		3
101	Characterization and analytical validation of a microcantilever-based sensor for the determination of total carbonate in soil samples. <i>Sensors and Actuators B: Chemical</i> , 2008, 134, 245-251.	7.8	14
102	Advanced determination of piezoelectric properties of AlN thin films on silicon substrates. , 2008, , .		4
103	Origin of the Increasing Access Resistance in AlGaIn/GaN HEMTs. , 2008, , .		2
104	Simulation and laser vibrometry characterization of piezoelectric AlN thin films. <i>Journal of Applied Physics</i> , 2008, 104, .	2.5	42
105	Laser vibrometry and impedance characterization of piezoelectric microcantilevers. <i>Journal of Micromechanics and Microengineering</i> , 2007, 17, 931-937.	2.6	29
106	Resonance frequencies and modal shape characterization of piezoelectric microcantilevers. , 2007, , .		2
107	Behaviour of forbidden modes in the impedance characterization and modeling of piezoelectric microcantilevers. <i>Sensors and Actuators A: Physical</i> , 2007, 136, 417-425.	4.1	21
108	Trapping Effects in the Transient Response of AlGaIn/GaN HEMT Devices. <i>IEEE Transactions on Electron Devices</i> , 2007, 54, 410-417.	3.0	184

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109	Simulation of surface state effects in the transient response of AlGaIn/GaN HEMT and GaN MESFET devices. Semiconductor Science and Technology, 2006, 21, 1150-1159.	2.0	28
110	Tunable mechanical resonator with aluminium nitride piezoelectric actuation. , 2006, 6186, 185.		8
111	Simulation and impedance characterization of piezoelectric micro cantilevers. , 2006, , .		0
112	<title>Simulation, fabrication, and testing of aluminium nitride piezoelectric microbridges</title>. , 2005, , .		2
113	Simulation and characterization of interdigitated microsensor electrodes for DNA detection. , 2005, , .		1
114	2D simulation of static surface states in AlGaIn/GaN HEMT and GaN MESFET devices. Semiconductor Science and Technology, 2005, 20, 864-869.	2.0	15
115	Optoelectronic properties of 2-D and 3-D-grown GaInNAs//GaAs QW light emitting diodes and laser diodes. IEE Proceedings: Optoelectronics, 2004, 151, 421-425.	0.8	0
116	Dominant carrier recombination mechanisms in GaInNAsâ•GaN quantum well light-emitting diodes. Applied Physics Letters, 2004, 85, 40-42.	3.3	7
117	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
118	Modulation-doping in 3â€“5 Î¼m 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
119	On the growth conditions of 3â€“5 Î¼m well-doped AlGaAs/AlAs/GaN 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	Modulation-doped double-barrier quantum well infrared detectors for photovoltaic operation in 3-5 Î¼m. IEEE Photonics Technology Letters, 2003, 15, 105-107.	2.5	4
121	Annealing effects on the crystal structure of GaInNAs quantum wells with large In and N content grown by molecular beam epitaxy. Journal of Applied Physics, 2003, 94, 2319-2324.	2.5	60
122	GaN-based modulation-doped quantum-well infrared photodetectors for single- and two-color detection in 3-5 Î¼m. IEEE Journal of Selected Topics in Quantum Electronics, 2002, 8, 992-997.	2.9	13
123	Spontaneous emission study of (111) InGaAs/GaN quantum well lasers. Microelectronics Journal, 2002, 33, 589-593.	2.0	1
124	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
125	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
126	Determination of the pyroelectric coefficient in strained InGaAs/GaN quantum wells grown on (111)Bâ€“GaN substrates. Journal of Applied Physics, 2001, 90, 915-917.	2.5	20

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127	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
128	Tailoring of internal fields in AlGaIn/GaN and InGaIn/GaN heterostructure devices. Physical Review B, 2000, 61, 2773-2778.	3.2	34
129	Polarization fields determination in AlGaIn/GaN heterostructure field-effect transistors from charge control analysis. Applied Physics Letters, 1999, 75, 2407-2409.	3.3	65
130	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
131	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
132	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
133	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
134	Relaxation study of In _x Ga _{1-x} As/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
135	Optical characterisation of quantum well infra-red detector structures. IEE Proceedings: Optoelectronics, 1999, 146, 89-92.	0.8	5
136	Polarization Field Determination in AlGaIn/GaN HFETs. Physica Status Solidi A, 1999, 176, 195-199.	1.7	9
137	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
138	Low frequency noise and screening effects in AlGaIn/GaN HEMTs. Electronics Letters, 1998, 34, 2357.	1.0	23
139	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
140	Yellow luminescence and related deep states in undoped GaN. Physical Review B, 1997, 55, 4689-4694.	3.2	203
141	Memory effects on piezoelectric InGaAs/GaAs MQW PIN diodes. Microelectronics Journal, 1997, 28, 757-765.	2.0	3
142	Charge accumulation effects in InGaAs/GaAs [111]-oriented piezoelectric multiple quantum wells. Microelectronics Journal, 1997, 28, 767-775.	2.0	2
143	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
144	Application of high-resolution X-ray diffractometry to the structural study of epitaxial multilayers on novel index surfaces. Microelectronics Journal, 1997, 28, 777-784.	2.0	0

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145	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
146	Highâ€resolution xâ€ray diffraction study of piezoelectric InGaAs/GaAs multiquantum well pâ€in photodiodes grown on (111)B GaAs. Applied Physics Letters, 1996, 69, 1574-1576.	3.3	11
147	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
148	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
149	Photoinhibition of the quantum confined Stark effect in piezoelectric multiple quantum wells. Physical Review B, 1996, 53, 15469-15472.	3.2	20
150	Inâ€well screening nonlinearities in piezoelectric multiple quantum wells. Applied Physics Letters, 1995, 67, 950-952.	3.3	16
151	Carrier and screening dynamics in strained [111]â€oriented multiple quantum wells. Applied Physics Letters, 1995, 66, 857-859.	3.3	15
152	Sequential tunneling in [100]â€and [111]â€oriented InGaAs/GaAs multiâ€quantum wells by photocapacitance. Applied Physics Letters, 1995, 66, 2223-2225.	3.3	3
153	Displacement photocurrents and screening effects in novel piezoelectric InGaAs/GaAs multiple-quantum-well P-N diodes. Semiconductor Science and Technology, 1995, 10, 1528-1533.	2.0	3
154	Design and characterization of (111)B InGaAs/GaAs piezoelectric superlattices. Semiconductor Science and Technology, 1995, 10, 1173-1176.	2.0	6
155	Nonlinear optical response, screening, and distribution of strain in piezoelectric multiple quantum wells. Journal of Applied Physics, 1994, 76, 7870-7873.	2.5	17
156	Conductionâ€band engineering in piezoelectric [111] multiple quantum well pâ€in photodiodes. Applied Physics Letters, 1994, 65, 2214-2216.	3.3	42
157	Strained piezoelectric [111] multiple quantum wells: clamped or free?. Superlattices and Microstructures, 1994, 15, 171.	3.1	1
158	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
159	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
160	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
161	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
162	Roomâ€and lowâ€temperature 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

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163	Conduction band engineering in InGaAs/GaAs [111] multiple quantum well p-i-n photodiodes. Superlattices and Microstructures, 1993, 14, 287.	3.1	1
164	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
165	Techniques to minimize DX-center deleterious effects in III-V device performance. Journal of Applied Physics, 1993, 73, 4988-4997.	2.5	34
166	Tailoring of internal fields in InGaAs/GaAs multiwell structures grown on (111)B GaAs. Applied Physics Letters, 1993, 63, 752-754.	3.3	77
167	Enhanced carrier densities and device performance in piezoelectric pseudomorphic high-electron mobility transistor structures. Applied Physics Letters, 1992, 61, 1072-1074.	3.3	27
168	Photoluminescence characterization of gated pseudomorphic AlGaAs/InGaAs/GaAs modulation-doped field-effect transistors. Applied Physics Letters, 1992, 61, 1225-1227.	3.3	26
169	Piezoelectric Properties of Sputtered AlN Thin Films and their Applications. Advances in Science and Technology, 0, , .	0.2	7
170	Linear Motors Based on Piezoelectric MEMS. , 0, , .		2