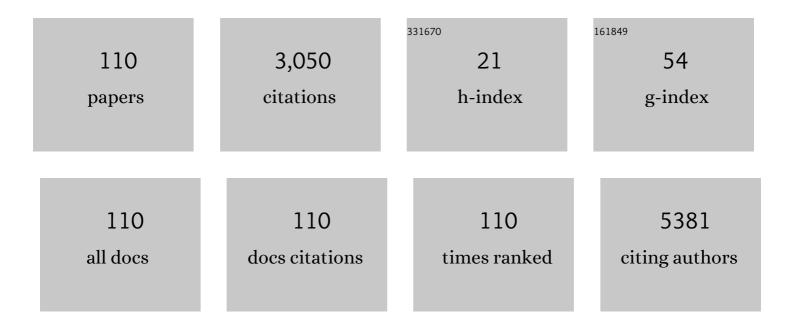
List of Publications by Year in descending order

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Ιολομάν Κλητλησερ

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Transitioning from Si to SiGe Nanowires as Thermoelectric Material in Silicon-Based Microgenerators. Nanomaterials, 2021, 11, 517. | 4.1 | 24 |
| 2 | Harvesting performance of a planar thermoelectric microgenerator with a compact design. , 2021, , . | | 0 |
| 3 | Overview of Direct Liquid Oxidation Fuel Cells and its Application as Micro-Fuel Cells. , 2018, , 129-174. | | 2 |
| 4 | Low temperature humidity sensor based on Ge nanowires selectively grown on suspended microhotplates. Sensors and Actuators B: Chemical, 2017, 243, 669-677. | 7.8 | 23 |
| 5 | Site-selectively Grown p-type Ge NWs as a Gas Sensor. Procedia Engineering, 2016, 168, 1056-1060. | 1.2 | 0 |
| 6 | Selective CoSe 2 /C cathode catalyst for passive air-breathing alkaline anion exchange membrane μ-direct methanol fuel cell (AEM-Ĩ¼DMFC). International Journal of Hydrogen Energy, 2016, 41, 19595-19600. | 7.1 | 17 |
| 7 | Comprehensive characterization and understanding of micro-fuel cells operating at high methanol concentrations. Beilstein Journal of Nanotechnology, 2015, 6, 2000-2006. | 2.8 | 14 |
| 8 | New approach for batch microfabrication of silicon-based micro fuel cells. Microsystem Technologies, 2014, 20, 341-348. | 2.0 | 15 |
| 9 | Fabrication and evaluation of a passive alkaline membrane micro direct methanol fuel cell. International Journal of Hydrogen Energy, 2014, 39, 5406-5413. | 7.1 | 25 |
| 10 | Sensors and Micro and Nano Technologies for the Food Sector. , 2013, , . | | 0 |
| 11 | A micro alkaline direct ethanol fuel cell with platinum-free catalysts. Journal of Micromechanics and Microengineering, 2013, 23, 115006. | 2.6 | 14 |
| 12 | Localized growth and in situ integration of nanowires for device applications. Chemical Communications, 2012, 48, 4734. | 4.1 | 32 |
| 13 | Contact end resistance test structure applied for nanocontact measurements. Microelectronic Engineering, 2012, 99, 18-22. | 2.4 | 0 |
| 14 | Finite-element analysis of a miniaturized ion mobility spectrometer for security applications. Sensors and Actuators B: Chemical, 2012, 170, 13-20. | 7.8 | 14 |
| 15 | Tolerant Chalcogenide Cathodes of Membraneless Micro Fuel Cells. ChemSusChem, 2012, 5, 1488-1494. | 6.8 | 50 |
| 16 | A MEMS-based thermal infrared emitter for an integrated NDIR spectrometer. Microsystem Technologies, 2012, 18, 1147-1154. | 2.0 | 8 |
| 17 | A micromachined thermoelectric sensor for natural gas analysis: Multivariate calibration results. Sensors and Actuators B: Chemical, 2012, 166-167, 338-348. | 7.8 | 21 |
| 18 | Modelling a P-FAIMS with multiphysics FEM. Journal of Mathematical Chemistry, 2012, 50, 359-373. | 1.5 | 3 |

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| 19 | Methods and Techniques for the Fabrication of Gas Sensing Devices from Nanowires. Procedia Engineering, 2011, 25, 1409-1412. | 1.2 | 0 |
| 20 | Planar Thermoelectric Microgenerators Based on Silicon Nanowires. Journal of Electronic Materials, 2011, 40, 851-855. | 2.2 | 24 |
| 21 | A MEMS-based thermal infrared emitter for an integrated NDIR spectrometer. , 2011, , . | | 0 |
| 22 | Planar Micro Ion Mobility Spectrometer modelling for explosives detection. , 2011, , . | | 1 |
| 23 | Modeling vapor detection in a micro ion mobility spectrometer for security applications. Procedia Engineering, 2010, 5, 1236-1239. | 1.2 | 2 |
| 24 | Towards a compact SU-8 micro-direct methanol fuel cell. Journal of Power Sources, 2010, 195, 8110-8115. | 7.8 | 37 |
| 25 | Simulation of a planar micro Ion Mobility Spectrometer for security applications. , 2010, , . | | Ο |
| 26 | A monolithic micro fuel cell based on a functionalized porous silicon membrane. , 2010, , . | | 6 |
| 27 | Hybrid polymer electrolyte membrane for silicon-based micro fuel cells integration. Journal of Micromechanics and Microengineering, 2009, 19, 065006. | 2.6 | 10 |
| 28 | Qualitative and quantitative substance discrimination using a CMOS compatible non-specific NDIR microarray. Sensors and Actuators B: Chemical, 2009, 141, 396-403. | 7.8 | 15 |
| 29 | Ethylene optical spectrometer for apple ripening monitoring in controlled atmosphere store-houses. Sensors and Actuators B: Chemical, 2009, 136, 546-554. | 7.8 | 36 |
| 30 | Sensitivity improvement of a microcantilever based mass sensor. Microelectronic Engineering, 2009, 86, 1187-1189. | 2.4 | 40 |
| 31 | Influence of current collectors design on the performance of a silicon-based passive micro direct methanol fuel cell. Journal of Power Sources, 2009, 194, 391-396. | 7.8 | 44 |
| 32 | Limits to the integration of filters and lenses on thermoelectric IR detectors by flip-chip techniques. Sensors and Actuators A: Physical, 2009, 149, 65-73. | 4.1 | 18 |
| 33 | Monolithic micro fuel cells as integrated power sources in MEMS. , 2009, , . | | 4 |
| 34 | Use of boron heavily doped silicon slabs for gas sensors based on free-standing membranes. Sensors and Actuators B: Chemical, 2008, 130, 538-545. | 7.8 | 11 |
| 35 | Performance optimization of a passive silicon-based micro-direct methanol fuel cell. Sensors and Actuators B: Chemical, 2008, 132, 540-544. | 7.8 | 35 |
| 36 | Sub-ppm gas sensor detection via spiral μ-preconcentrator. Sensors and Actuators B: Chemical, 2008, 132, 149-154. | 7.8 | 49 |

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| 37 | Influence of the internal gas flow distribution on the efficiency of a μ-preconcentrator. Sensors and Actuators B: Chemical, 2008, 135, 52-56. | 7.8 | 7 |
| 38 | Fabrication and characterization of a passive silicon-based direct methanol fuel cell. Microsystem Technologies, 2008, 14, 535-541. | 2.0 | 41 |
| 39 | A compact optical multichannel system for ethylene monitoring. Microsystem Technologies, 2008, 14, 637-644. | 2.0 | 19 |
| 40 | Design and fabrication of silicon-based mid infrared multi-lenses for gas sensing applications. Sensors and Actuators B: Chemical, 2008, 132, 498-507. | 7.8 | 19 |
| 41 | A micromachined thermoelectric sensor for natural gas analysis: Thermal model and experimental results. Sensors and Actuators B: Chemical, 2008, 134, 551-558. | 7.8 | 36 |
| 42 | Towards a monolithic micro direct methanol fuel cell. , 2008, , . | | 0 |
| 43 | A high sensitivity silicon microcantilever based mass sensor. , 2008, , . | | 6 |
| 44 | Thermoelectric MEMS sensors for natural gas analysis. , 2008, , . | | 0 |
| 45 | The ATLAS Experiment at the CERN Large Hadron Collider. Journal of Instrumentation, 2008, 3, S08003-S08003. | 1.2 | 1,752 |
| 46 | Combined performance tests before installation of the ATLAS Semiconductor and Transition Radiation Tracking Detectors. Journal of Instrumentation, 2008, 3, P08003-P08003. | 1.2 | 42 |
| 47 | The integration and engineering of the ATLAS SemiConductor Tracker Barrel. Journal of Instrumentation, 2008, 3, P10006-P10006. | 1.2 | 13 |
| 48 | Preconcentrator-based sensor Ã,µ-system for low-level benzene detection. Proceedings of SPIE, 2008, , . | 0.8 | 0 |
| 49 | Design and Fabrication of Micromachined Silicon Based Mid Infrared Multilenses for Gas Sensing Applications. , 2007, , . | | 2 |
| 50 | A micromachined thermoelectric sensor for natural gas analysis: Thermal model and experimental results. , 2007, , . | | 2 |
| 51 | Performance and Design Issues of a Silicon Microfabricated Fuel Cell. , 2007, , . | | 1 |
| 52 | Fabrication and characterization of a passive silicon-based direct methanol fuel cell. , 2007, , . | | 0 |
| 53 | A compact optical ethylene monitoring system. , 2007, , . | | 3 |
| 54 | Micro and nanotechnologies for the development of an integrated chromatographic system. , 2007, , . | | 2 |

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| 55 | Dimension-Scaling of Microcantilevers Resonators. , 2007, , . | | 1 |
| 56 | A Silicon-Based Direct Methanol Micro Fuel Cell. , 2007, , . | | 0 |
| 57 | Silicon μ-preconcentrator for improved gas detection. , 2007, , . | | 0 |
| 58 | Improvement of the gas sensor response via silicon μ-preconcentrator. Sensors and Actuators B: Chemical, 2007, 127, 288-294. | 7.8 | 23 |
| 59 | Non-selective NDIR array for gas detection. Sensors and Actuators B: Chemical, 2007, 127, 69-73. | 7.8 | 67 |
| 60 | Influence of the doping material on the benzene detection. , 2006, , . | | 1 |
| 61 | Mechanical characterization of thermal flow sensors membranes. Sensors and Actuators A: Physical, 2006, 125, 260-266. | 4.1 | 10 |
| 62 | Exploration of the metrological performance of a gas detector based on an array of unspecific infrared filters. Sensors and Actuators B: Chemical, 2006, 116, 183-191. | 7.8 | 18 |
| 63 | Fresnel lenses: study and fabrication in silicon technology for medium-IR applications. , 2006, 6186, 233. | | 5 |
| 64 | Towards a Microtechnology based 4-channel infrared detector unit for a miniaturised NDIR system. , 2006, , . | | 0 |
| 65 | Microsystems for the agrofood field. Journal of Physics: Conference Series, 2005, 10, 267-272. | 0.4 | 2 |
| 66 | Mirror electrostatic actuation of a medium-infrared tuneable Fabry-Perot interferometer based on a surface micromachining process. Sensors and Actuators A: Physical, 2005, 123-124, 584-589. | 4.1 | 10 |
| 67 | Multisensor chip for gas concentration monitoring in a flowing gas mixture. Sensors and Actuators B: Chemical, 2005, 107, 688-694. | 7.8 | 8 |
| 68 | Characterization of thermal conductivity in thin film multilayered membranes. Thin Solid Films, 2005, 484, 328-333. | 1.8 | 13 |
| 69 | A methodology to extract dynamic compact thermal models under time-varying boundary conditions: application to a thermopile based IR sensor. Microsystem Technologies, 2005, 12, 21-29. | 2.0 | 6 |
| 70 | <title>A highly sensitive IR-optical sensor for ethylene-monitoring</title> . , 2005, 5836, 452. | | 9 |
| 71 | <title>Non-selective NDIR array for gas detection</title> . , 2005, , . | | 0 |
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Progress on monolithic integration of cheap IR FPAs of polycrystalline PbSe., 2005, , .

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| 73 | Feasibility of a flip-chip approach to integrate an IR filter and an IR detector in a future gas detection cell. Microsystem Technologies, 2004, 10, 382-386. | 2.0 | 13 |
| 74 | Thermal AFM: a thermopile case study. Ultramicroscopy, 2004, 101, 153-159. | 1.9 | 3 |
| 75 | AFM thermal imaging as an optimization tool for a bulk micromachined thermopile. Sensors and Actuators A: Physical, 2004, 115, 440-446. | 4.1 | 14 |
| 76 | Multi-range silicon micromachined flow sensor. Sensors and Actuators A: Physical, 2004, 110, 282-288. | 4.1 | 112 |
| 77 | Feasibility of a flip-chip approach to integrate an IR filter and an IR detector in a future gas detection cell. Microsystem Technologies, 2004, 10, 382-386. | 2.0 | 7 |
| 78 | New evidence of dominant processing effects in standard and oxygenated silicon diodes after neutron irradiation. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2003, 512, 52-59. | 1.6 | 4 |
| 79 | Semiconductor gas sensor compatibility with CMOS technologies. , 2003, , . | | 1 |
| 80 | Extensive electrical and thermal characterization of an MCM-D technology. IEEE Transactions on Components and Packaging Technologies, 2002, 25, 112-119. | 1.3 | 1 |
| 81 | Protection of MOS capacitors during anodic bonding. Journal of Micromechanics and Microengineering, 2002, 12, 361-367. | 2.6 | 9 |
| 82 | Modelling of charging effects caused by anodic bonding in packaged MOS devices. Electronics Letters, 2002, 38, 1596. | 1.0 | 1 |
| 83 | Novel results on fluence dependence and annealing behavior of oxygenated and non-oxygenated silicon detectors. IEEE Transactions on Nuclear Science, 2002, 49, 1377-1382. | 2.0 | 7 |
| 84 | Optimization of a 0.6μm, single polysilicon emitter bipolar technology versus narrow emitter effects. Microelectronics Journal, 2002, 33, 659-665. | 2.0 | 0 |
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| 87 | Reliability evaluation of a silicon-on-silicon MCM-D package. Microelectronics Reliability, 2001, 41, 887-899. | 1.7 | 3 |
| 88 | Accurate contact resistivity extraction on Kelvin structures with upper and lower resistive layers. IEEE Transactions on Electron Devices, 2000, 47, 1431-1439. | 3.0 | 18 |
| 89 | Optimized technology for the fabrication of piezoresistive pressure sensors. Journal of Micromechanics and Microengineering, 2000, 10, 204-208. | 2.6 | 32 |
| 90 | CMOS integrated pressure sensor optimization using electrical network simulator-FEM tool coupling. Journal of Micromechanics and Microengineering, 1999, 9, 109-112. | 2.6 | 3 |

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| 91 | Test structures for MCM-D technology characterization. IEEE Transactions on Semiconductor Manufacturing, 1999, 12, 184-192. | 1.7 | 8 |
| 92 | A technology for the monolithic fabrication of a pressure sensor and related circuitry. Sensors and Actuators A: Physical, 1995, 46, 133-136. | 4.1 | 9 |
| 93 | Extraction of contact resistivity on Kelvin L-resistor structures. IEEE Transactions on Electron Devices, 1994, 41, 1073-1074. | 3.0 | 3 |
| 94 | Accurate extraction of contact resistivity on Kelvin D-resistor structures using universal curves from simulation. IEEE Transactions on Electron Devices, 1993, 40, 944-950. | 3.0 | 12 |
| 95 | An easy technique for determining diffusion and generation-recombination components of the current of pn junctions for better modelling. , 0, , . | | 1 |
| 96 | A moveable shielding box adaptable to commercial automatic wafer probers. , 0, , . | | 0 |
| 97 | Universal surfaces for the accurate contact resistivity extraction on Kelvin structures with upper and lower resistive layers. , 0, , . | | 4 |
| 98 | A digital test structure for simultaneous bird's beak length and misalignment measurement in polysilicon emitter bipolar technologies. , 0, , . | | 0 |
| 99 | Test structures for MCM-D technology characterization. , 0, , . | | 1 |
| 100 | Novel results on fluence dependence and annealing behaviour of oxygenated and non-oxygenated silicon detectors. , 0, , . | | 0 |
| 101 | A test structure for the design of thermal flow sensors. , 0, , . | | 5 |
| 102 | Feasibility of a flip chip approach to integrate an IR filter and an IR detector in a future gas detection cell. , 0, , . | | 0 |
| 103 | Optical simulation of a MOEMS based tuneable Fabry-Perot interferometer. , 0, , . | | 1 |
| 104 | Micro-cantilevers for gas sensing. , 0, , . | | 3 |
| 105 | FEM simulations to estimate the polymer thickness deposited over mechanical resonators. , 0, , . | | Ο |
| 106 | Comparison of model order reduction methodologies for thermal problems. , 0, , . | | 2 |
| 107 | Thermal conductivity determination of micromachined membranes. , 0, , . | | 2 |
| 108 | Thermopile sensor array for an electronic nose integrated non-selective NDIR gas detection system. , 0, , . | | 3 |

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| 109 | Mechanical characterisation of micro-resonator structures. , 0, , . | | Ο |
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110 Managing Heat Transfer Issues in Thermoelectric Microgenerators. , 0, , .