

Nikos Konofaos

List of Publications by Year in descending order

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92
papers

959
citations

471509

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h-index

526287

27
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93
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93
docs citations

93
times ranked

939
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Electrical characterisation of SiON/n-Si structures for MOS VLSI electronics. <i>Microelectronics Journal</i> , 2004, 35, 421-425. | 2.0 | 74 |
| 2 | Electrical properties of SrTiO ₃ thin films on Si deposited by magnetron sputtering at low temperature. <i>Applied Physics Letters</i> , 2001, 79, 1513-1515. | 3.3 | 53 |
| 3 | Reduced molybdenum oxide as an efficient electron injection layer in polymer light-emitting diodes. <i>Applied Physics Letters</i> , 2011, 98, 123301. | 3.3 | 49 |
| 4 | Dielectric properties and electronic transitions of porous and nanostructured cerium oxide films. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2004, 109, 69-73. | 3.5 | 42 |
| 5 | Characterisation of the Interface States between Amorphous Diamond-Like Carbon Films and (100) Silicon. <i>Physica Status Solidi A</i> , 1997, 161, 111-123. | 1.7 | 41 |
| 6 | Electrical characterization of the SiON/Si interface for applications on optical and MOS devices. <i>Semiconductor Science and Technology</i> , 2003, 18, 56-59. | 2.0 | 41 |
| 7 | Tungsten oxides as interfacial layers for improved performance in hybrid optoelectronic devices. <i>Thin Solid Films</i> , 2011, 519, 5748-5753. | 1.8 | 38 |
| 8 | Characterization of heterojunction devices constructed by amorphous diamondlike films on silicon. <i>Journal of Applied Physics</i> , 1997, 81, 6238-6245. | 2.5 | 36 |
| 9 | Dielectric properties of CVD grown SiON thin films on Si for MOS microelectronic devices. <i>Semiconductor Science and Technology</i> , 2004, 19, 50-53. | 2.0 | 29 |
| 10 | Amorphous diamondlike carbon&silicon heterojunction devices formed by ion implantation. <i>Applied Physics Letters</i> , 1992, 61, 2805-2807. | 3.3 | 25 |
| 11 | Properties and density of states of the interface between silicon and carbon films rich in sp ³ bonds. <i>Journal of Applied Physics</i> , 1997, 82, 5017-5020. | 2.5 | 25 |
| 12 | Characterisation of the BaTiO ₃ /p-Si interface and applications. <i>Applied Surface Science</i> , 2000, 166, 504-507. | 6.1 | 25 |
| 13 | Rare earth oxides as high- κ dielectrics for Ge based MOS devices: An electrical study of Pt/Gd ₂ O ₃ /Ge capacitors. <i>Solid-State Electronics</i> , 2007, 51, 164-169. | 1.4 | 23 |
| 14 | Gate stack dielectric degradation of rare-earth oxides grown on high mobility Ge substrates. <i>Journal of Applied Physics</i> , 2012, 112, . | 2.5 | 23 |
| 15 | Design of Low-Power High-Performance 2 ⁴ and 4 ¹⁶ Mixed-Logic Line Decoders. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2017, 64, 176-180. | 3.0 | 23 |
| 16 | Properties of barium titanate (BaTiO ₃) thin films grown on silicon by rf magnetron sputtering. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 2000, 80, 395-407. | 0.6 | 22 |
| 17 | Characterization of magnetron sputtering deposited thin films of TiN for use as a metal electrode on TiN/SiO ₂ /Si metal&oxide&semiconductor devices. <i>Journal of Applied Physics</i> , 2000, 88, 7192-7196. | 2.5 | 19 |
| 18 | Target Localization Utilizing the Success Rate in Infrared Pattern Recognition. <i>IEEE Sensors Journal</i> , 2006, 6, 1355-1364. | 4.7 | 19 |

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|----|---|------|-----------|
| 19 | Highly porous tungsten oxides for electrochromic applications. <i>Microelectronic Engineering</i> , 2013, 111, 149-153. | 2.4 | 18 |
| 20 | Low-power high-performance CMOS 5â€2 compressor with 58 transistors. <i>Electronics Letters</i> , 2018, 54, 278-280. | 1.0 | 16 |
| 21 | Quantum Pattern Recognition Method for Improving Pairwise Sequence Alignment. <i>Scientific Reports</i> , 2019, 9, 7226. | 3.3 | 16 |
| 22 | Charge carrier response time in sputtered a-C/n-Si heterojunctions. <i>Applied Physics Letters</i> , 2001, 79, 2381-2383. | 3.3 | 15 |
| 23 | Electrical characterisation of SrTiO ₃ /Si interfaces. <i>Journal of Non-Crystalline Solids</i> , 2002, 303, 185-189. | 3.1 | 14 |
| 24 | Device characterization for amorphous diamond-like carbonâ€“silicon heterojunctions. <i>Journal of Applied Physics</i> , 1998, 84, 4634-4636. | 2.5 | 13 |
| 25 | Formation of stoichiometric, sub-stoichiometric undoped and hydrogen doped tungsten oxide films, enabled by pulsed introduction of O ₂ or H ₂ during hot-wire vapor deposition. <i>Thin Solid Films</i> , 2013, 537, 124-130. | 1.8 | 13 |
| 26 | On the Use of FDTD and Ray-Tracing Schemes in the Nanonetwork Environment. <i>IEEE Communications Letters</i> , 2014, 18, 1823-1826. | 4.1 | 13 |
| 27 | Crystal quality and conductivity type of (002) ZnO films on (100) Si substrates for device applications. <i>Solid-State Electronics</i> , 2010, 54, 1150-1154. | 1.4 | 12 |
| 28 | Design and Simulation of 6T1SRAM Cell Architectures in 32nm Technology. <i>Journal of Engineering Science and Technology Review</i> , 2016, 9, 145-149. | 0.4 | 11 |
| 29 | Effect of the layered structure on the electronic properties of amorphous carbon films on n-Si. <i>Journal of Applied Physics</i> , 1999, 86, 4446-4451. | 2.5 | 10 |
| 30 | Electrical behaviour of metal/a-C/Si and metal/CN/Si devices. <i>Carbon</i> , 1999, 37, 871-876. | 10.3 | 10 |
| 31 | Characterization of BaTiO ₃ thin films on p-Si. <i>Materials Science in Semiconductor Processing</i> , 2001, 4, 305-307. | 4.0 | 10 |
| 32 | Electrical characterization of TiN/a-C/Si devices grown by magnetron sputtering at room temperature. <i>Applied Physics Letters</i> , 2001, 78, 1682-1684. | 3.3 | 9 |
| 33 | Design, simulation and performance evaluation of a single-electron 2-4 decoder. <i>Microelectronics Journal</i> , 2008, 39, 1613-1621. | 2.0 | 9 |
| 34 | Reduced transition metal oxides as electron injection layers in hybrid-PLEDs. <i>Microelectronic Engineering</i> , 2012, 90, 59-61. | 2.4 | 9 |
| 35 | Low-power, high-performance 64-bit CMOS priority encoder using static-dynamic parallel architecture. , 2016, , . | | 9 |
| 36 | Organic photovoltaic performance improvement using atomic layer deposited ZnO electron-collecting layers. <i>Solid-State Electronics</i> , 2014, 101, 50-56. | 1.4 | 8 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | New evidence on the relation between tunnelling and trap density at insulator/semiconductor interfaces. <i>Semiconductor Science and Technology</i> , 2001, 16, 733-738. | 2.0 | 7 |
| 38 | Electrical properties of carbon nitride films on silicon. <i>Journal of Applied Physics</i> , 2002, 91, 9915. | 2.5 | 7 |
| 39 | The effects of interface and bulk defects on the electrical performance of amorphous carbon/silicon heterojunctions. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2002, 91-92, 379-383. | 3.5 | 7 |
| 40 | Using future position restriction rules for stabilizing the results of a noise-sensitive indoor localization system. <i>Optical Engineering</i> , 2007, 46, 067202. | 1.0 | 7 |
| 41 | Design and Simulation of NAND Gates Made of Single Electron Devices. , 2008, , . | | 7 |
| 42 | Design, Simulation and Performance Evaluation of a NAND Based Single-electron 2-4 Decoder. , 2009, , . | | 7 |
| 43 | Improving the Sequence Alignment Method by Quantum Multi-Pattern Recognition. , 2018, , . | | 7 |
| 44 | Encoding Two-Qubit Logical States and Quantum Operations Using the Energy States of a Physical System. <i>Technologies</i> , 2022, 10, 1. | 5.1 | 7 |
| 45 | Conductance technique measurements of the density of states between Si and ZnS grown by molecular beam epitaxy. <i>Journal of Applied Physics</i> , 1993, 74, 397-401. | 2.5 | 6 |
| 46 | Properties of Al ₂ O ₃ /ITO Capacitors for Microelectronic Device Applications. <i>IEEE Transactions on Electron Devices</i> , 2004, 51, 1202-1205. | 3.0 | 6 |
| 47 | Characteristics of SrTiO ₃ thin films deposited on Si by rf magnetron sputtering at various substrate temperatures. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 2002, 82, 891-903. | 0.6 | 6 |
| 48 | Hot-wire substoichiometric tungsten oxide films deposited in hydrogen environment with n-type conductivity. <i>Journal Physics D: Applied Physics</i> , 2012, 45, 445101. | 2.8 | 5 |
| 49 | High-Performance and Energy-Efficient 256-Bit CMOS Priority Encoder. , 2017, , . | | 5 |
| 50 | Electronic transport phenomena in devices containing amorphous diamond-like films on silicon. <i>Solid State Communications</i> , 1998, 105, 257-261. | 1.9 | 4 |
| 51 | Electrical characterization and carrier transport mechanisms of GaAs p/i/n devices for photovoltaic applications. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2001, 80, 152-155. | 3.5 | 4 |
| 52 | A complementary single-electron 4-bit multiplexer. , 2010, , . | | 4 |
| 53 | Memory performance of MOS structure embedded with laser annealed gold NCs. <i>Solid-State Electronics</i> , 2018, 148, 63-69. | 1.4 | 4 |
| 54 | Nitrogen induced states at the CN _x /Si interface. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2000, 71, 315-320. | 3.5 | 3 |

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|----|---|-----|-----------|
| 55 | Defect related effects on the reliability and performance of an embedded DRAM cell designed with MOSFETs with alternative gate dielectrics. Journal of Physics: Conference Series, 2005, 10, 365-368. | 0.4 | 3 |
| 56 | Characterization of physical and electrical properties of BaTiO ₃ films deposited on p-Si by modified polymeric precursors. Journal of Electronic Materials, 2005, 34, 1259-1263. | 2.2 | 3 |
| 57 | QuCirDET: A design and simulation tool for quantum circuits. , 2016, , . | | 3 |
| 58 | PSK OFDM optical wireless communication systems with receiver's diversity over gamma-gamma turbulence channels and spatial jitter. , 2017, , . | | 3 |
| 59 | Temperature dependence of the barrier at the tetrahedral amorphous carbon-silicon interface. Semiconductor Science and Technology, 2001, 16, 474-477. | 2.0 | 2 |
| 60 | <title>Design and simulation of an embedded DRAM cell made up of MOSFETs having alternative gate dielectrics</title>. , 2005, , . | | 2 |
| 61 | The peak and average temperature in a self-heated GaN HFET. Solid-State Electronics, 2007, 51, 142-146. | 1.4 | 2 |
| 62 | Multi field SRAM access via intra-encoders and crossbar addressing scheme. , 2017, , . | | 2 |
| 63 | A VHDL implementation of the Hummingbird cryptographic algorithm. , 2017, , . | | 2 |
| 64 | Quantum Pattern Recognition for Local Sequence Alignment. , 2017, , . | | 2 |
| 65 | Estimation of a Target Position Based on Infrared Pattern Reception Quality. IETE Technical Review (Institution of Electronics and Telecommunication Engineers, India), 2010, 27, 36. | 3.2 | 2 |
| 66 | Utilising noise effects on infrared pattern reception for position estimation on a grid plane. , 2007, , . | | 1 |
| 67 | A methodology for the implementation of MOSFETs with a high-k dielectric gate material on the design of 90 nm technology circuits. International Journal of Electronics, 2008, 95, 333-349. | 1.4 | 1 |
| 68 | Crystal quality and conductivity type of epitaxial (002) ZnO films on (100) Si substrates for device applications. , 2009, , . | | 1 |
| 69 | A four base computational method for the implementation of a quantum computer using silicon devices: Circuit and simulation. Mathematical and Computer Modelling, 2010, 51, 144-149. | 2.0 | 1 |
| 70 | Ultra-low-power and compact 8-bit CMOS priority encoder. International Journal of Electronics Letters, 2017, 5, 272-278. | 1.2 | 1 |
| 71 | Crossbar sector addressing scheme on SRAMs. , 2017, , . | | 1 |
| 72 | A Quantum Computer Architecture Based on Semiconductor Recombination Statistics. Lecture Notes in Computer Science, 2005, , 582-588. | 1.3 | 1 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 73 | Utilizing infrared pattern recognition features for indoor localization validated by future position restrictions. , 2006, , . | | 1 |
| 74 | Temperature dependence of the electrical properties of MOS devices constructed by sol gel deposited BaTiO ₃ films on p-Si. Journal of Physics: Conference Series, 2005, 10, 49-52. | 0.4 | 0 |
| 75 | An electrical, optical and electron paramagnetic resonance study of room temperature deposited CNx films on Si. Thin Solid Films, 2005, 482, 270-274. | 1.8 | 0 |
| 76 | A New Concept On A Quantum Computer Based On Shockley-Read-Hall Recombination Statistics In Microelectronic Devices. AIP Conference Proceedings, 2005, , . | 0.4 | 0 |
| 77 | A quantum computer based on recombination processes in microelectronic devices. Journal of Physics: Conference Series, 2005, 10, 85-88. | 0.4 | 0 |
| 78 | Modeling and Simulation of Submicron MOSFETs with Alternative Gate Dielectrics for DRAM Cells. , 0, , . | | 0 |
| 79 | Implementation of a Hadamard Gate Using Laser Light on a Phosphorus Doped Si Device. AIP Conference Proceedings, 2007, , . | 0.4 | 0 |
| 80 | Studying compatibilities between quantum cellular automata and Kane's semiconductor based quantum computer. Physica Status Solidi C: Current Topics in Solid State Physics, 2008, 5, 3865-3867. | 0.8 | 0 |
| 81 | Developing quantum nanocomputing for pervasive health environments. , 2009, , . | | 0 |
| 82 | Electrical reliability characteristics and dielectrics degradation in gate stacks (REO-HfO ₂ <inf>2</inf>) grown on the high mobility Ge substrates. , 2011, , . | | 0 |
| 83 | Interface engineering for efficient organic optoelectronic devices using nanostructured transition metal oxides. , 2011, , . | | 0 |
| 84 | Quantum noise simulation: A software module for QuCirDET. , 2017, , . | | 0 |
| 85 | Design and implementation of quantum circuits for fault-tolerant architectures. , 2017, , . | | 0 |
| 86 | High-performance and energy-efficient 64-bit incrementer/decrementer using Multiple-Output Monotonic CMOS. The Integration VLSI Journal, 2018, 62, 270-281. | 2.1 | 0 |
| 87 | Quantum recovery protocols for stabilizer codes: Deterministic Monte-Carlo simulation. AIP Advances, 2018, 8, . | 1.3 | 0 |
| 88 | A Quantum Cellular Automata Type Architecture with Quantum Teleportation for Quantum Computing. Entropy, 2019, 21, 1235. | 2.2 | 0 |
| 89 | Simultaneous accessing of multiple SRAM subregions forming configurable and automatically generated memory fields. International Journal of Circuit Theory and Applications, 2021, 49, 2238-2254. | 2.0 | 0 |
| 90 | Noise investigation in a spin-based four-qubit GaAs block of self-assembled quantum dots. AIP Advances, 2021, 11, 065126. | 1.3 | 0 |

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|----|---|----|-----------|
| 91 | A wireless infrared sensor network for the estimation of the position and orientation of a moving target. , 2007, , . | | 0 |
| 92 | A Model for Encoding Multiple Logical Qubit States into the Energy Eigenstates of a Transmon System. , 2021, , . | | 0 |