# Jean Perre Vilcot

List of Publications by Year
in descending order



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|---|---|---|---|
| 99 papers | 1,354 citations | 430874 18 h-index | 377865 34 g-index |
| 99 all docs | 99 docs citations | 99 times ranked | 1673 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Modeling and simulation of <scp>GaAsPN</scp> / <scp>GaP</scp> quantum dot structure for solar cell in intermediate band solar cell applications. International Journal of Energy Research, 2022, 46, 10133-10142. | 4.5 | 2 |
| 2 | Plasmonic Layer as a Localized Temperature Control Element for Surface Plasmonic Resonance-Based Sensors. Sensors, 2021, 21, 2035. | 3.8 | 2 |
| 3 | Approaching Theoretical Band Gap of ZnSnN<sub>2</sub> Films via Bias Magnetron Cosputtering at Room Temperature. ACS Applied Electronic Materials, 2021, 3, 3855-3866. | 4.3 | 7 |
| 4 | In depth analysis of transfer length method application on passivated contacts under illumination. Solar Energy Materials and Solar Cells, 2021, 230, 111255. | 6.2 | 8 |
| 5 | Effect of Sputtering Atmosphere on ZnSnN<sub>2</sub> Thin Films Electrical and Optoelectronic Properties. ECS Transactions, 2020, 97, 47-55. | 0.5 | 2 |
| 6 | Leak-free integrated microfluidic channel fabrication for surface plasmon resonance applications. Journal of Micromechanics and Microengineering, 2020, 30, 125003. | 2.6 | 5 |
| 7 | Effect of Sputtering Atmosphere on ZnSnN2 Thin Films Electrical and Optoelectronic Properties. ECS Meeting Abstracts, 2020, MA2020-01, 1352-1352. | 0.0 | 0 |
| 8 | 3D Patterning of Si by Contact Etching With Nanoporous Metals. Frontiers in Chemistry, 2019, 7, 256. | 3.6 | 14 |
| 9 | Innovative solution to avoid glass substrate bending in a chalcopyrite solar cell fabrication process. Thin Solid Films, 2018, 653, 194-199. | 1.8 | 2 |
| 10 | Voltage transient analysis as a generic tool for solar junction characterization. Journal Physics D: Applied Physics, 2018, 51, 345501. | 2.8 | 2 |
| 11 | Room temperature pulsed-DC sputtering deposition process for CIGS absorber layer: Material and device characterizations. Thin Solid Films, 2018, 660, 175-179. | 1.8 | 10 |
| 12 | 3D patterning of silicon by contact etching with anodically biased nanoporous gold electrodes. Electrochemistry Communications, 2017, 76, 79-82. | 4.7 | 16 |
| 13 | Full Sputtering Deposition of Thin Film Solar Cells: A Way of Achieving High Efficiency Sustainable Tandem Cells?. Journal of Electronic Materials, 2017, 46, 6523-6527. | 2.2 | 10 |
| 14 | Investigations on the mechanical properties of the elementary thin films composing a CuIn 1â^'x Ga x Se 2 solar cell using the nanoindentation technique. Thin Solid Films, 2017, 633, 71-75. | 1.8 | 5 |
| 15 | Novel spin coated phosphorus sources for gettering process on crystalline silicon. , 2016, , . | | 0 |
| 16 | Tunable Surface Structuration of Silicon by Metal Assisted Chemical Etching with Pt Nanoparticles under Electrochemical Bias. ACS Applied Materials & Interfaces, 2016, 8, 31375-31384. | 8.0 | 28 |
| 17 | Electrical and optical properties of InAsP/Si Quantum dot solar cell. , 2016, , . | | 0 |
| 18 | Rapid thermal annealing effect on the spatial resistivity distribution of AZO thin films deposited by pulsed-direct-current sputtering for solar cells applications. Applied Surface Science, 2016, 366, 53-58. | 6.1 | 21 |

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|---|---|---|---|
| 19 | Modeling and simulation of InAs/GaAs quantum dots for solar cell applications. Optik, 2016, 127, 3531-3534. | 2.9 | 6 |
| 20 | Modeling and optimization of CdS/CuIn1â‾xGaxSe2 structure for solar cells applications. , 2015, , . | | 0 |
| 21 | Comprehensive study of ultra broadband <scp>GCPWâ€MS</scp> transition on thin films. Microwave and Optical Technology Letters, 2015, 57, 2041-2045. | 1.4 | 8 |
| 22 | Impact of the firing step on Al<sub>2</sub>O<sub>3</sub>passivation on p-type Czochralski Si wafers: Electrical and chemical approaches. Japanese Journal of Applied Physics, 2015, 54, 08KD21. | 1.5 | 3 |
| 23 | 40 GSPS all-optical ADC with ENOB of 6.6 using EO polymer optical deflector and spatial quantizer. , 2015, , . | | 0 |
| 24 | Optimizing the performance of a solar cell based on new materials. , 2014, , . | | 2 |
| 25 | Angle-dependent ray tracing simulations of reflections on pyramidal textures for silicon solar cells. Solar Energy, 2014, 110, 378-385. | 6.1 | 22 |
| 26 | Enhancing LSPR Sensitivity of Au Gratings through Graphene Coupling to Au Film. Plasmonics, 2014, 9, 507-512. | 3.4 | 44 |
| 27 | Substrate Mode-Integrated SPR Sensor. Plasmonics, 2013, 8, 1203-1208. | 3.4 | 2 |
| 28 | Comparison of Gold and Silver/Gold Bimetallic Surface for Highly Sensitive Near-infrared SPR Sensor at 1550Ânm. Plasmonics, 2013, 8, 619-624. | 3.4 | 37 |
| 29 | Enhanced gold film-coupled graphene-based plasmonic nanosensor. Proceedings of SPIE, 2013, , . | 0.8 | 0 |
| 30 | Recent advances in the development of graphene-based surface plasmon resonance (SPR) interfaces. Analytical and Bioanalytical Chemistry, 2013, 405, 1435-1443. | 3.7 | 191 |
| 31 | Integrated prism-free coupled surface plasmon resonance biochemical sensor. Proceedings of SPIE, 2012, , . | 0.8 | 1 |
| 32 | Benefits of Photonic Bandgap Fibers for the Thermal Stabilization of Optoelectronic Oscillators. IEEE Photonics Journal, 2012, 4, 789-794. | 2.0 | 9 |
| 33 | Investigation on the optical gain and threshold current density of Ga<inf>1−x</inf>In<inf>x</inf>As<inf>1−y−z</inf>N<inf&g /GaAs strained quantum wells laser. , 2012, , . | | |
| 34 | Energy-Autonomous Picocell Remote Antenna Unit for Radio-Over-Fiber System Using the Multiservices Concept. IEEE Photonics Technology Letters, 2012, 24, 649-651. | 2.5 | 23 |
| 35 | Graphene-based high-performance surface plasmon resonance biosensors. Proceedings of SPIE, 2012, , . | 0.8 | 8 |
| 36 | Surface plasmon resonance-based biosensors: From the development of different SPR structures to novel surface functionalization strategies. Current Opinion in Solid State and Materials Science, 2011, 15, 208-224. | 11.5 | 295 |

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| 37 | 10 GbE and Radio over Fiber Dual Transmission through Polymer Optical Fiber. Applied Physics Express, 2011, 4, 112502. | 2.4 | 1 |
| 38 | Potential of the high modal bandwidth OM4 glass multimode fiber for the multi-services concept. Optics Communications, 2011, 284, 585-589. | 2.1 | 3 |
| 39 | Exploit the Bandwidth Capacities of the Perfluorinated Graded Index Polymer Optical Fiber for Multi-Services Distribution. Polymers, 2011, 3, 1006-1028. | 4.5 | 32 |
| 40 | Tunable dual-mode DFB laser for millimetre-wave signal generation. EPJ Applied Physics, 2011, 53, 33609. | 0.7 | 1 |
| 41 | Multi-service applications on high modal bandwidth glass multimode fibre. Electronics Letters, 2009, 45, 951. | 1.0 | 6 |
| 42 | Indoor coverage improvement of MB-OFDM UWB signals with radio over POF system. Optics Communications, 2009, 282, 4706-4715. | 2.1 | 13 |
| 43 | Ultracompact optical filter based on a stub resonator in GaInAsP/InP optical wire technology. Optics Letters, 2009, 34, 1936. | 3.3 | 0 |
| 44 | Review of Glass and Polymer Multimode Fibers Used in a Wimedia Ultrawideband MB-OFDM Radio Over Fiber System. Journal of Lightwave Technology, 2009, 27, 1320-1331. | 4.6 | 13 |
| 45 | Radio over fiber systems: towards low-cost multi-standard and high data rate wireless applications. , 2009, , . | | 0 |
| 46 | ISIS: European project on infrastructures for broadband access on wireless/photonics. , 2009, , . | | 0 |
| 47 | Microstubs resonators integrated to bent Y-branch waveguide. Photonics and Nanostructures - Fundamentals and Applications, 2008, 6, 26-31. | 2.0 | 5 |
| 48 | Differential Mode Delay Measurements of Fluorinated Graded Index Polymer Optical Fiber. IEEE Photonics Technology Letters, 2008, 20, 1584-1586. | 2.5 | 6 |
| 49 | Wide electrical tunability of a GaInAsP/InP microdisk resonator. Optics Letters, 2008, 33, 1467. | 3.3 | 2 |
| 50 | Optically Powered Remote Units for Radio-Over-Fiber Systems. Journal of Lightwave Technology, 2008, 26, 2484-2491. | 4.6 | 68 |
| 51 | Crosstalk measurement of DOS-like switch using InP narrow deep-etched waveguides. Optics Express, 2008, 16, 5181. | 3.4 | 1 |
| 52 | Potential of the polymer optical fibers deployed in a 10Gbps small office/home office network. Optics Express, 2008, 16, 11266. | 3.4 | 5 |
| 53 | Passive photonic components using InP optical wire technology. IET Optoelectronics, 2008, 2, 69-75. | 3.3 | 3 |
| 54 | An optically powered radio over fiber remote unit using wavelength division multiplexing. , 2008, , . | | 8 |

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|---|---|---|---|
| 55 | InP/benzocyclobutene optical nanowires. Electronics Letters, 2008, 44, 902. | 1.0 | 5 |
| 56 | Optical switch using InP optical wire technology. , 2007, 6593, 64. | | 3 |
| 57 | Optical Nanowires for Microwave Applications. Advanced Materials Research, 2007, 31, 230-235. | 0.3 | 2 |
| 58 | Selective filtering of confined optical waves in a straight waveguide coupled to lateral stubs. Journal of Optics, 2007, 9, S431-S436. | 1.5 | 3 |
| 59 | An Impulse System for 60-GHz Wireless Networks Based on Polymer Optical Fiber. IEEE Photonics Technology Letters, 2007, 19, 1964-1966. | 2.5 | 4 |
| 60 | Radio-optic demonstrator for distributed antenna system indoor wireless applications using low-cost VCSELs. European Transactions on Telecommunications, 2007, 18, 811-814. | 1.2 | 11 |
| 61 | Improving thermal stability of opto-electronic oscillators. IEEE Microwave Magazine, 2006, 7, 38-47. | 0.8 | 49 |
| 62 | Novel device concepts for microwave photonics functionalities. , 2006, , . | | 1 |
| 63 | Radio over fibre systems using perfluorinated graded index polymer optical fibre. Microwave and Optical Technology Letters, 2006, 48, 1197-1199. | 1.4 | 2 |
| 64 | Demonstration of III-V Semiconductor/Benzocyclobutene Optical Nanowires and Nanotapers. ECS Transactions, 2006, 3, 31-38. | 0.5 | 5 |
| 65 | Simultaneous Dual Band Transmission Over Multimode Fiber-Fed Indoor Wireless Network. IEEE Microwave and Wireless Components Letters, 2006, 16, 627-629. | 3.2 | 23 |
| 66 | Simple Technological Process for the Fabrication of Optical III-V Nanowires Integrated into a Benzocyclobutene Matrix. ECS Transactions, 2006, 3, 305-309. | 0.5 | 2 |
| 67 | Design of monolithic integrated Bragg gratings in InGaAsP/InP materials as chirped pulse compressors. , 2005, , . | | 0 |
| 68 | Fabrication of III-V/polymer optical nanowires and nanogratings for nanophotonic devices. , 2005, , . | | 0 |
| 69 | Apodized filters on InP-material ridge waveguides using sampled Bragg gratings. , 2005, , . | | 2 |
| 70 | Realization of sub-micron patterns on GaAs using a HSQ etching mask. Microelectronic Engineering, 2005, 77, 210-216. | 2.4 | 21 |
| 71 | Characterization of InP semiconductor waveguides coupled to disk microcavity optical resonators via opto-microwave technique. Microwave and Optical Technology Letters, 2005, 45, 315-317. | 1.4 | 3 |
| 72 | Air-bridge interconnection and bondpad process for non-planar compound semiconductor devices. Microelectronic Engineering, 2005, 81, 53-58. | 2.4 | 6 |

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| 73 | Photonic devices based on preferential etching. Applied Optics, 2005, 44, 7181. | 2.1 | 22 |
| 74 | Subcarrier radio signal transmission over multimode fibre for 60â€…GHz WLAN using a phase noise cancellation technique. Electronics Letters, 2005, 41, 91. | 1.0 | 10 |
| 75 | Potentials of radio over multimode fiber systems for the in-buildings coverage of mobile and wireless LAN applications. IEEE Photonics Technology Letters, 2005, 17, 2793-2795. | 2.5 | 36 |
| 76 | Low-loss InGaAsPâˆ•InP submicron optical waveguides fabricated by ICP etching. Electronics Letters, 2004, 40, 865. | 1.0 | 19 |
| 77 | Characterisation of SiO2 transferred GaAs electroabsorption modulator for 850â€…nm radio over fibre systems based on multimode fibre. Electronics Letters, 2004, 40, 1075. | 1.0 | 4 |
| 78 | Versatile bondpad report process for non-planar compound semiconductor devices. Microelectronic Engineering, 2004, 71, 358-362. | 2.4 | 3 |
| 79 | Optimization of HSQ resist e-beam processing technique on GaAs material. Microelectronic Engineering, 2004, 75, 177-182. | 2.4 | 22 |
| 80 | <title>Integrated InP optical switches based on carrier-induced index variation</title>. , 2004, , . | | 0 |
| 81 | Rate equations model for semiconductor lasers with multilongitudinal mode competition and gain dynamics. IEEE Journal of Quantum Electronics, 2003, 39, 1229-1237. | 1.9 | 14 |
| 82 | Multilongitudinal mode rate equation model for diode lasers. , 2003, 4986, 40. | | 0 |
| 83 | Understanding the twin stripe diode laser: a multimode perspective. , 2003, 4986, 49. | | 0 |
| 84 | Mode structures and their evolution with current in a twin strip laser array. , 2003, , . | | 0 |
| 85 | Experimental measurements of the ridge spacing influence on the frequency response and optical spectrum of laterally coupled laser diodes. , 2003, , . | | 4 |
| 86 | Measurement of semiconductor optical index variation in photonic devices based on optical heterodyning microwave experiments. Electronics Letters, 2003, 39, 295. | 1.0 | 0 |
| 87 | DOS optical switch for microwave optical links based applications. Electronics Letters, 2002, 38, 1697. | 1.0 | 8 |
| 88 | Fabrication and characterization of laterally coupled lasers. , 2002, , . | | 2 |
| 89 | AlGaAs-GaAs polarization converter with electrooptic phase mismatch control. IEEE Photonics Technology Letters, 2001, 13, 830-832. | 2.5 | 12 |
| 90 | Radiofrequency transmission of 32-QAM signals over multimode fibre for distributed antenna system applications. Electronics Letters, 2001, 37, 1087. | 1.0 | 38 |

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| 91 | Cutoff frequency and responsivity limitation of AlInAs/GaInAs MSM PD using a two dimensional bipolar physical model. IEEE Transactions on Electron Devices, 1995, 42, 231-238. | 3.0 | 23 |
| 92 | High optical power nonlinear dynamic response of AlInAs/GaInAs MSM photodiode. IEEE Transactions on Electron Devices, 1995, 42, 828-834. | 3.0 | 13 |
| 93 | <title>Analysis of intrinsic losses of 45-degree self-aligned integrated mirror using finite-difference beam propagation method</title>. , 1994, , . | | 1 |
| 94 | Electron-hole pair generation rate of a monolithic integrated waveguide/photodetector: application to the modeling of monolithic integrated waveguide/p-i-n photodiodes. Journal of Lightwave Technology, 1990, 8, 1920-1931. | 4.6 | 5 |
| 95 | PhotodÃ©tecteurs en intÃ©gration monolithique sur guides optiques : modÃ©lisation et vÃ©rifications expÃ©rimentales. Annales Des Telecommunications/Annals of Telecommunications, 1989, 44, 149-154. | 2.5 | 0 |
| 96 | IIIâ€“V photoconductive detectors : Gain and noise studies. Physica B: Physics of Condensed Matter & C: Atomic, Molecular and Plasma Physics, Optics, 1985, 129, 488-492. | 0.9 | 10 |
| 97 | Signal to noise ratio enhancement using heterojunction bipolar phototransistor by base current compensation. , 0, , . | | 1 |
| 98 | 32-QAM radio transmission over multimode fibre beyond the fibre bandwidth. , 0, , . | | 12 |
| 99 | Optical Nanowires for Microwave Applications. Advanced Materials Research, 0, , 230-235. | 0.3 | 1 |