Jean Perre Vilcot

List of Publications by Year
in descending order

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	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
2	Recent advances in the development of graphene-based surface plasmon resonance (SPR) interfaces. Analytical and Bioanalytical Chemistry, 2013, 405, 1435-1443.	3.7	191
3	Optically Powered Remote Units for Radio-Over-Fiber Systems. Journal of Lightwave Technology, 2008, 26, 2484-2491.	4.6	68
4	Improving thermal stability of opto-electronic oscillators. IEEE Microwave Magazine, 2006, 7, 38-47.	0.8	49
5	Enhancing LSPR Sensitivity of Au Gratings through Graphene Coupling to Au Film. Plasmonics, 2014, 9, 507-512.	3.4	44
6	Radiofrequency transmission of 32-QAM signals over multimode fibre for distributed antenna system applications. Electronics Letters, 2001, 37, 1087.	1.0	38
7	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
8	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
9	Exploit the Bandwidth Capacities of the Perfluorinated Graded Index Polymer Optical Fiber for Multi-Services Distribution. Polymers, 2011, 3, 1006-1028.	4.5	32
10	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
11	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
12	Simultaneous Dual Band Transmission Over Multimode Fiber-Fed Indoor Wireless Network. IEEE Microwave and Wireless Components Letters, 2006, 16, 627-629.	3.2	23
13	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
14	Optimization of HSQ resist e-beam processing technique on GaAs material. Microelectronic Engineering, 2004, 75, 177-182.	2.4	22
15	Photonic devices based on preferential etching. Applied Optics, 2005, 44, 7181.	2.1	22
16	Angle-dependent ray tracing simulations of reflections on pyramidal textures for silicon solar cells. Solar Energy, 2014, 110, 378-385.	6.1	22
17	Realization of sub-micron patterns on GaAs using a HSQ etching mask. Microelectronic Engineering, 2005, 77, 210-216.	2.4	21
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	Low-loss InGaAsPâˆ•InP submicron optical waveguides fabricated by ICP etching. Electronics Letters, 2004, 40, 865.	1.0	19
20	3D patterning of silicon by contact etching with anodically biased nanoporous gold electrodes. Electrochemistry Communications, 2017, 76, 79-82.	4.7	16
21	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
22	3D Patterning of Si by Contact Etching With Nanoporous Metals. Frontiers in Chemistry, 2019, 7, 256.	3.6	14
23	High optical power nonlinear dynamic response of AlInAs/GaInAs MSM photodiode. IEEE Transactions on Electron Devices, 1995, 42, 828-834.	3.0	13
24	Indoor coverage improvement of MB-OFDM UWB signals with radio over POF system. Optics Communications, 2009, 282, 4706-4715.	2.1	13
25	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
26	AlGaAs-GaAs polarization converter with electrooptic phase mismatch control. IEEE Photonics Technology Letters, 2001, 13, 830-832.	2.5	12
27	32-QAM radio transmission over multimode fibre beyond the fibre bandwidth. , 0, , .		12
28	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
29	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
30	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
31	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
32	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
33	Benefits of Photonic Bandgap Fibers for the Thermal Stabilization of Optoelectronic Oscillators. IEEE Photonics Journal, 2012, 4, 789-794.	2.0	9
34	DOS optical switch for microwave optical links based applications. Electronics Letters, 2002, 38, 1697.	1.0	8
35	An optically powered radio over fiber remote unit using wavelength division multiplexing. , 2008, , .		8
36	Graphene-based high-performance surface plasmon resonance biosensors. Proceedings of SPIE, 2012, , .	0.8	8

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37	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
38	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
39	Approaching Theoretical Band Gap of ZnSnN₂ Films via Bias Magnetron Cosputtering at Room Temperature. ACS Applied Electronic Materials, 2021, 3, 3855-3866.	4.3	7
40	Air-bridge interconnection and bondpad process for non-planar compound semiconductor devices. Microelectronic Engineering, 2005, 81, 53-58.	2.4	6
41	Differential Mode Delay Measurements of Fluorinated Graded Index Polymer Optical Fiber. IEEE Photonics Technology Letters, 2008, 20, 1584-1586.	2.5	6
42	Multi-service applications on high modal bandwidth glass multimode fibre. Electronics Letters, 2009, 45, 951.	1.0	6
43	Modeling and simulation of InAs/GaAs quantum dots for solar cell applications. Optik, 2016, 127, 3531-3534.	2.9	6
44	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
45	Demonstration of III-V Semiconductor/Benzocyclobutene Optical Nanowires and Nanotapers. ECS Transactions, 2006, 3, 31-38.	0.5	5
46	Microstubs resonators integrated to bent Y-branch waveguide. Photonics and Nanostructures - Fundamentals and Applications, 2008, 6, 26-31.	2.0	5
47	Potential of the polymer optical fibers deployed in a 10Gbps small office/home office network. Optics Express, 2008, 16, 11266.	3.4	5
48	InP/benzocyclobutene optical nanowires. Electronics Letters, 2008, 44, 902.	1.0	5
49	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
50	Leak-free integrated microfluidic channel fabrication for surface plasmon resonance applications. Journal of Micromechanics and Microengineering, 2020, 30, 125003.	2.6	5
51	Experimental measurements of the ridge spacing influence on the frequency response and optical spectrum of laterally coupled laser diodes. , 2003, , .		4
52	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
53	An Impulse System for 60-GHz Wireless Networks Based on Polymer Optical Fiber. IEEE Photonics Technology Letters, 2007, 19, 1964-1966.	2.5	4
54	Versatile bondpad report process for non-planar compound semiconductor devices. Microelectronic Engineering, 2004, 71, 358-362.	2.4	3

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55	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
56	Optical switch using InP optical wire technology. , 2007, 6593, 64.		3
57	Selective filtering of confined optical waves in a straight waveguide coupled to lateral stubs. Journal of Optics, 2007, 9, S431-S436.	1.5	3
58	Passive photonic components using InP optical wire technology. IET Optoelectronics, 2008, 2, 69-75.	3.3	3
59	Potential of the high modal bandwidth OM4 glass multimode fiber for the multi-services concept. Optics Communications, 2011, 284, 585-589.	2.1	3
60	Impact of the firing step on Al₂O₃passivation on p-type Czochralski Si wafers: Electrical and chemical approaches. Japanese Journal of Applied Physics, 2015, 54, 08KD21.	1.5	3
61	Fabrication and characterization of laterally coupled lasers. , 2002, , .		2
62	Apodized filters on InP-material ridge waveguides using sampled Bragg gratings. , 2005, , .		2
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	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
65	Optical Nanowires for Microwave Applications. Advanced Materials Research, 2007, 31, 230-235.	0.3	2
66	Wide electrical tunability of a GaInAsP/InP microdisk resonator. Optics Letters, 2008, 33, 1467.	3.3	2
67	Substrate Mode-Integrated SPR Sensor. Plasmonics, 2013, 8, 1203-1208.	3.4	2
68	Optimizing the performance of a solar cell based on new materials. , 2014, , .		2
69	Innovative solution to avoid glass substrate bending in a chalcopyrite solar cell fabrication process. Thin Solid Films, 2018, 653, 194-199.	1.8	2
70	Voltage transient analysis as a generic tool for solar junction characterization. Journal Physics D: Applied Physics, 2018, 51, 345501.	2.8	2
71	Effect of Sputtering Atmosphere on ZnSnN₂ Thin Films Electrical and Optoelectronic Properties. ECS Transactions, 2020, 97, 47-55.	0.5	2
72	Plasmonic Layer as a Localized Temperature Control Element for Surface Plasmonic Resonance-Based Sensors. Sensors, 2021, 21, 2035.	3.8	2

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73	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
74	<title>Analysis of intrinsic losses of 45-degree self-aligned integrated mirror using finite-difference beam propagation method</title>. , 1994, , .		1
75	Signal to noise ratio enhancement using heterojunction bipolar phototransistor by base current compensation. , 0, , .		1
76	Novel device concepts for microwave photonics functionalities. , 2006, , .		1
77	Crosstalk measurement of DOS-like switch using InP narrow deep-etched waveguides. Optics Express, 2008, 16, 5181.	3.4	1
78	10 GbE and Radio over Fiber Dual Transmission through Polymer Optical Fiber. Applied Physics Express, 2011, 4, 112502.	2.4	1
79	Integrated prism-free coupled surface plasmon resonance biochemical sensor. Proceedings of SPIE, 2012, , .	0.8	1
80	Tunable dual-mode DFB laser for millimetre-wave signal generation. EPJ Applied Physics, 2011, 53, 33609.	0.7	1
81	Optical Nanowires for Microwave Applications. Advanced Materials Research, 0, , 230-235.	0.3	1
82	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
83	Multilongitudinal mode rate equation model for diode lasers. , 2003, 4986, 40.		0
84	Understanding the twin stripe diode laser: a multimode perspective. , 2003, 4986, 49.		0
85	Mode structures and their evolution with current in a twin strip laser array. , 2003, , .		0
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	<title>Integrated InP optical switches based on carrier-induced index variation</title>. , 2004, , .		0
88	Design of monolithic integrated Bragg gratings in InGaAsP/InP materials as chirped pulse compressors. , 2005, , .		0
89	Fabrication of III-V/polymer optical nanowires and nanogratings for nanophotonic devices. , 2005, , .		0
90	Ultracompact optical filter based on a stub resonator in GaInAsP/InP optical wire technology. Optics Letters, 2009, 34, 1936.	3.3	0

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91	Radio over fiber systems: towards low-cost multi-standard and high data rate wireless applications. , 2009, , .		0
92	ISIS: European project on infrastructures for broadband access on wireless/photonics. , 2009, , .		0
93	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>y /GaAs strained quantum wells laser. , 2012, , .		0
94	Enhanced gold film-coupled graphene-based plasmonic nanosensor. Proceedings of SPIE, 2013, , .	0.8	0
95	Modeling and optimization of CdS/CuIn1â”xGaxSe2 structure for solar cells applications. , 2015, , .		0
96	40 GSPS all-optical ADC with ENOB of 6.6 using EO polymer optical deflector and spatial quantizer. , 2015, , .		0
97	Novel spin coated phosphorus sources for gettering process on crystalline silicon. , 2016, , .		0
98	Electrical and optical properties of InAsP/Si Quantum dot solar cell. , 2016, , .		0
99	Effect of Sputtering Atmosphere on ZnSnN2 Thin Films Electrical and Optoelectronic Properties. ECS Meeting Abstracts, 2020, MA2020-01, 1352-1352.	0.0	0