

Patrice Salzenstein

List of Publications by Year in descending order

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75
papers

684
citations

567281

15
h-index

580821

25
g-index

75
all docs

75
docs citations

75
times ranked

389
citing authors

#	ARTICLE	IF	CITATIONS
1	Compact optoelectronic microwave oscillators using ultra-high Q whispering gallery mode disk-resonators and phase modulation. Optics Express, 2010, 18, 22358.	3.4	159
2	Phase noise performance comparison between optoelectronic oscillators based on optical delay lines and whispering gallery mode resonators. Optics Express, 2014, 22, 32158.	3.4	57
3	Time-Domain Dynamics and Stability Analysis of Optoelectronic Oscillators Based on Whispering-Gallery Mode Resonators. IEEE Journal of Selected Topics in Quantum Electronics, 2013, 19, 1-12.	2.9	44
4	Applications of the optical fiber to the generation and measurement of low-phase-noise microwave signals. Journal of the Optical Society of America B: Optical Physics, 2008, 25, 2140.	2.1	38
5	Significant step in ultra-high stability quartz crystal oscillators. Electronics Letters, 2010, 46, 1433.	1.0	33
6	Estimation of the uncertainty for a phase noise optoelectronic metrology system. Physica Scripta, 2012, T149, 014025.	2.5	25
7	High performance InP-based heterostructure barrier varactors in single and stack configuration. Electronics Letters, 1996, 32, 1417.	1.0	22
8	Realization of a Phase Noise Measurement Bench Using Cross Correlation and Double Optical Delay Line. Acta Physica Polonica A, 2007, 112, 1107-1111.	0.5	19
9	Coplanar waveguides on dielectric membranes micromachined on a GaAs substrate. Electronics Letters, 1996, 32, 821.	1.0	18
10	Magnesium Fluoride Whispering Gallery Mode Disk-Resonators for Microwave Photonics Applications. IEEE Photonics Technology Letters, 2010, , .	2.5	18
11	Investigation in acousto-optic laser stabilization for crystal resonator-based optoelectronic oscillators. Optical Engineering, 2013, 52, 024603.	1.0	18
12	Optoelectronics - Advanced Materials and Devices. , 2013, , .		17
13	Computation method for the short-term stability of quartz crystal resonators obtained from passive phase noise measures. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2013, 60, 1530-1532.	3.0	16
14	Uncertainty Evaluation on a 10.52 GHz (5 dBm) Optoelectronic Oscillator Phase Noise Performance. Micromachines, 2021, 12, 474.	2.9	16
15	Frequency stability measurements of ultrastable BVA resonators and oscillators. Electronics Letters, 2010, 46, 686.	1.0	15
16	Lowest flicker-frequency floor measured on BVA oscillators. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2010, 57, 548-551.	3.0	15
17	High quality-factor optical resonators. Physica Scripta, 2014, T162, 014032.	2.5	15
18	Uncertainty analysis for a phase-detector based phase noise measurement system. Measurement: Journal of the International Measurement Confederation, 2016, 85, 118-123.	5.0	15

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19	Coupling of high-quality-factor optical resonators. Physica Scripta, 2013, T157, 014024.	2.5	13
20	Advanced bridge instrument for the measurement of the phase noise and of the short-term frequency stability of ultra-stable quartz resonators. Frequency Control Symposium and Exhibition, Proceedings of the IEEE International, 2007, , .	0.0	11
21	Distributed amplified ultra-stable signal quartz oscillator based. Measurement: Journal of the International Measurement Confederation, 2012, 45, 1937-1939.	5.0	10
22	Optical Mini-Disk Resonator Integrated into a Compact Optoelectronic Oscillator. Acta Physica Polonica A, 2009, 116, 661-663.	0.5	9
23	About Quartz Crystal Resonator Noise: Recent Study. , 2009, , .		8
24	A Program to Analyse the Origin of Noise in Ultra-Stable Quartz Crystal Resonators. Frequency Control Symposium and Exhibition, Proceedings of the IEEE International, 2007, , .	0.0	7
25	Drive level dependence in quartz crystal resonators at low drive levels: a review. , 2004, , .		6
26	Thermal characterization of crystal ovens used in phase noise measurement system. , 2006, , .		6
27	The effect of power-drive level on the calibration of the bridge instrument for the measurement of the quartz stability. , 2009, , .		5
28	Some considerations on acoustic resonator phase noise modeling and recent short-term stability experimental results. , 2011, , .		5
29	Experimental characterization of optoelectronic oscillators based on optical mini-resonators. , 2013, , .		5
30	Modern approach for estimating uncertainty of a precision optoelectronic phase noise measurement. , 2013, , .		4
31	Application of modern method of calculating uncertainty to microwaves and opto-electronics. , 2014, , .		4
32	Short-Term Frequency Stability Measurement of BVA Oscillators. Frequency Control Symposium and Exhibition, Proceedings of the IEEE International, 2007, , .	0.0	3
33	Laser stabilized by acousto-optic cells for optoelectronic oscillators. , 2012, , .		3
34	Optoelectronic Oscillators Phase Noise and Stability Measurements. , 2013, , .		3
35	An example of design, optimization, stabilization and noise performances of resonator-based optoelectronic oscillators. International Journal for Simulation and Multidisciplinary Design Optimization, 2019, 10, A2.	1.1	3
36	Frequency and temperature control for complex system engineering in optoelectronics and electronics: an overview. International Journal for Simulation and Multidisciplinary Design Optimization, 2020, 11, 7.	1.1	3

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37	Lowest flicker-frequency floor measured on BVA oscillators. , 2009, , .		2
38	Optoelectronic phase noise measurement system with wideband analysis. Proceedings of SPIE, 2012, , .	0.8	2
39	Temperature controlled optical resonator process for optoelectronic oscillator application. , 2015, , .		2
40	Recent progress in the performances of ultrastable quartz resonators and oscillators. International Journal for Simulation and Multidisciplinary Design Optimization, 2016, 7, A8.	1.1	2
41	Design and realisation of a 100MHz synthesis chain from an X-band reference signal. , 0, , .		1
42	Compact optoelectronic oscillators using WGM modes on fused silica and MgF 2 mini-disks resonators. Proceedings of SPIE, 2010, , .	0.8	1
43	Optoelectronic phase noise system designed for microwaves photonics sources measurements in metrology application. Proceedings of SPIE, 2011, , .	0.8	1
44	Experimental study of a crystalline-resonator based optoelectronic oscillator. , 2013, , .		1
45	Determination of the uncertainty for phase noise delivered by an optoelectronic based system. Proceedings of SPIE, 2013, , .	0.8	1
46	Comparison of two methods of laser stabilization for optoelectronic oscillators. Proceedings of SPIE, 2014, , .	0.8	1
47	Optimization of coupled device based on optical fiber with crystalline and integrated resonators. Proceedings of SPIE, 2017, , .	0.8	1
48	Celebration of the centenary of a major scientific milestone thanks to Heinrich Barkhausen. International Journal for Simulation and Multidisciplinary Design Optimization, 2020, 11, 24.	1.1	1
49	A GaInP/GaAs HBT-Based Low Phase Noise Oscillator in X Band for Metrology Application. , 2002, , .		0
50	Development of a 5 MHz frequency difference pre-multiplier for a short term frequency stability bench of the oscillators. Frequency Control Symposium and Exhibition, Proceedings of the IEEE International, 2007, , .	0.0	0
51	Noise analysis of the opto-electronic microwave oscillator (OEO). , 2010, , .		0
52	Resonator frequency stability contribution to the performance of ultrastable oscillators before and after integration. , 2010, , .		0
53	Investigation in compact optoelectronic oscillator with mini-disk resonator. , 2010, , .		0
54	Compact optoelectronic oscillator using whispering gallery mode resonators for radio-frequency and millimeter wave generation. Proceedings of SPIE, 2011, , .	0.8	0

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55	Resonance measurements techniques of optical whispering gallery mode mini-disc resonators for microwave photonics applications. Proceedings of SPIE, 2011, , .	0.8	0
56	Nonlinear dynamics of optoelectronic oscillators based on whispering-gallery mode resonators. , 2013, , .		0
57	Evaluation of the accuracy of the method for measuring state-of-the-art ultra-high stability quartz crystal oscillators. , 2013, , .		0
58	On the metrological performances of optoelectronic oscillators based on whispering gallery mode resonators. Proceedings of SPIE, 2014, , .	0.8	0
59	Preliminary investigation in optical resonators based on carbon nano-tube and coupling for optoelectronics. , 2014, , .		0
60	Optical resonators based on carbon nanotube for photonics applications. , 2014, , .		0
61	Advances in high quality factor optical resonators for optoelectronics. Proceedings of SPIE, 2015, , .	0.8	0
62	Holography from Venus de Milo to cultural performance, science and technology (Withdrawal) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 462		
63	Significant improvement in the thermal annealing process of optical resonators. Proceedings of SPIE, 2017, , .	0.8	0
64	Discussion on the principle of coupling and optimization of fiber-to-resonator coupling. , 2021, , .		0
65	Barkhausen conditions and starting of an optoelectronic oscillator. , 2021, , .		0
66	Investigation of the level of uncertainty given by Brillouin light scattering. , 2021, , .		0
67	Optimal design of a crystalline and integrated resonator coupled with optical fibre. , 2018, , .		0
68	Dedicated oven for optical resonator heating process. , 2018, , .		0
69	Electronics improvements for optical resonators fabrication. , 2018, , .		0
70	Brillouin light scattering uncertainty preliminary estimation. , 2019, , .		0
71	Fiber to resonator coupling simulation measure and optimization. , 2019, , .		0
72	Optimized oven for optical resonator heating process. , 2019, , .		0

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73	Accuracy of the determination of propagation velocities of phononic waves in the material. , 2020, , .		0
74	Optimization of fiber to resonator coupling. , 2020, , .		0
75	Brillouin light scattering characterization of optical materials. , 2020, , .		0