Alexandre Locquet

List of Publications by Year
in descending order

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105	2,219	257450	233421
papers	citations	24 h-index	45 g-index

106	106	106	1097
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Revealing inscriptions obscured by time on an early-modern lead funerary cross using terahertz multispectral imaging. Scientific Reports, 2022, 12, 3429.	3.3	3
2	Terahertz Dielectric Characterization of Low-Loss Thermoplastics for 6G Applications. International Journal of Wireless Information Networks, 2022, 29, 269-274.	2.7	6
3	Nondestructive characterization of nanoporous alumina films using terahertz scattering imaging. Surface and Coatings Technology, 2021, 408, 126792.	4.8	4
4	Microwave Frequency Comb Generation by Gain-Switching Versus Relaxation Oscillations. IEEE Photonics Technology Letters, 2021, 33, 491-494.	2.5	9
5	Terahertz Permittivity of Pressed ZnO and CuO Powder in Polyethylene Pellets: Effect of Porosity. IEEE Transactions on Terahertz Science and Technology, 2021, 11, 402-407.	3.1	3
6	Diagnosis of injection-molded weld lines in ABS thermoplastic by polarized terahertz reflective imaging. NDT and E International, 2021, 122, 102497.	3.7	3
7	Characterization of nanoporous alumina using terahertz reflectometry and scattering imaging. , 2021, , .		0
8	Terahertz Imaging for Paper Handling of Legacy Documents. Sensors, 2021, 21, 6756.	3.8	3
9	Terahertz Nondestructive Stratigraphic Analysis of Complex Layered Structures: Reconstruction Techniques. Journal of Infrared, Millimeter, and Terahertz Waves, 2021, 42, 929-946.	2.2	4
10	Optical square-wave generation in a semiconductor laser with optoelectronic feedback. Optics Letters, 2021, 46, 6031.	3.3	4
11	Scanning acoustic microscopy investigation of weld lines in injection-molded parts manufactured from industrial thermoplastic polymer. Micron, 2020, 138, 102925.	2.2	7
12	Thickness characterization of multi-layer coated steel by terahertz time-of-flight tomography. NDT and E International, 2020, 116, 102358.	3.7	19
13	Pulsed THz imaging for thickness characterization of plastic sheets. NDT and E International, 2020, 116, 102338.	3.7	20
14	Terahertz Time-of-Flight Tomography Beyond the Axial Resolution Limit: Autoregressive Spectral Estimation Based on the Modified Covariance Method. Journal of Infrared, Millimeter, and Terahertz Waves, 2020, 41, 926-939.	2.2	19
15	Staircase Dynamics of a Photonic Microwave Oscillator Based on a Laser Diode with Delayed Optoelectronic Feedback. Physical Review Applied, 2020, 13, .	3.8	11
16	Optical constants of CuO and ZnO particles in the terahertz frequency range. Ceramics International, 2020, 46, 24110-24119.	4.8	9
17	Routes to Chaos of a Semiconductor Laser Subjected to External Optical Feedback: A Review. Photonics, 2020, 7, 22.	2.0	10
18	Nondestructive measurement of mill-scale thickness on steel by terahertz time-of-flight tomography. Surface and Coatings Technology, 2020, 393, 125765.	4.8	19

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19	Characterization of nanoporous Al₂O₃ films at terahertz frequencies. Optics Letters, 2020, 45, 4092.	3.3	8
20	Asymmetrical performance of a laser-based reservoir computer with optoelectronic feedback. Optics Letters, 2020, 45, 6150.	3.3	10
21	Terahertz Characterization of Roman Amphora Sherds. , 2020, , .		0
22	Resonances between fundamental frequencies for lasers with large delayed feedbacks. Physical Review E, 2019, 99, 062219.	2.1	9
23	Application of Ultrasonic Coda Wave Interferometry for Micro-cracks Monitoring in Woven Fabric Composites. Journal of Nondestructive Evaluation, 2019, 38, 1.	2.4	11
24	Ultrasound Evaluation of the Protector Role of the Pronator Quadratus Suture in Volar Plating. Journal of Ultrasound in Medicine, 2019, 38, 2785-2791.	1.7	8
25	Terahertz Non-Destructive Thickness Characterization of Optically Thin Scale Layers on Steel. , 2019, , .		0
26	THz Thickness Characterization of Plastic Sheets Including Dispersion. , 2019, , .		0
27	Nanometric sensing with laser feedback interferometry. Optics Letters, 2019, 44, 903.	3.3	8
28	Low-noise x-band tunable microwave generator based on external cavity lasers. , 2019, , .		0
29	Coexisting periodic regimes in semiconductor lasers with optical feedback. , 2019, , .		0
30	Multistate intermittency on the route to chaos of a semiconductor laser subjected to optical feedback from a long external cavity. Chaos, 2018, 28, 011102.	2.5	9
31	Crisis route to chaos in semiconductor lasers subjected to external optical feedback. Physical Review A, 2018, 97, .	2.5	8
32	Enhancing optical-feedback-induced chaotic dynamics in semiconductor ring lasers via optical injection. Nonlinear Dynamics, 2018, 92, 315-324.	5.2	28
33	Chaotic laser voltage: An electronic entropy source. Applied Physics Letters, 2018, 112, .	3.3	6
34	Visualization of subsurface damage in woven carbon fiber-reinforced composites using polarization-sensitive terahertz imaging. NDT and E International, 2018, 99, 72-79.	3.7	37
35	Discrete Relaxation Oscillation Frequency Hopping in Delayed-feedback Semiconductor Lasers. , 2018, , .		0
36	Low-Noise X-Band Tunable Microwave Generator Based on a Semiconductor Laser With Feedback. IEEE Photonics Technology Letters, 2018, 30, 1597-1600.	2.5	18

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37	Terahertz pulsed imaging reveals the stratigraphy of a seventeenth-century oil painting. , 2018, , .		1
38	Feedback-induced discretisation of the relaxation oscillation frequency in a semiconductor laser. , 2018, , .		0
39	External-cavity based optoelectronic oscillator stabilization (Conference Presentation). , 2018, , .		0
40	Terahertz imaging for nondestructive testing of materials for aerospace, automotive, and energy (Conference Presentation). , 2018, , .		0
41	Terahertz Superresolution Stratigraphic Characterization of Multilayered Structures Using Sparse Deconvolution. IEEE Transactions on Terahertz Science and Technology, 2017, 7, 260-267.	3.1	67
42	Tunable X-Band Optoelectronic Oscillators Based on External-Cavity Semiconductor Lasers. IEEE Journal of Quantum Electronics, 2017, 53, 1-6.	1.9	13
43	Terahertz Quantitative Nondestructive Evaluation of Failure Modes in Polymer-Coated Steel. IEEE Journal of Selected Topics in Quantum Electronics, 2017, 23, 1-7.	2.9	37
44	Initial-state dependence of the route to chaos of an external-cavity laser. Physical Review A, 2017, 95, .	2.5	15
45	Global mapping of stratigraphy of an old-master painting using sparsity-based terahertz reflectometry. Scientific Reports, 2017, 7, 15098.	3.3	51
46	Delay induced high order locking effects in semiconductor lasers. Chaos, 2017, 27, 114325.	2.5	16
47	Reading bits on a CDâ€ROM without a photodiode. IET Optoelectronics, 2017, 11, 213-216.	3.3	0
48	Terahertz deconvolution based on autoregressive spectral extrapolation. , 2017, , .		0
49	Depth resolution enhancement of terahertz deconvolution by autoregressive spectral extrapolation. Optics Letters, 2017, 42, 1828.	3.3	33
50	Terahertz imaging for subsurface investigation of art paintings. , 2017, , .		0
51	Terahertz frequency-wavelet domain deconvolution for stratigraphic and subsurface investigation of art painting. Optics Express, 2016, 24, 26972.	3.4	62
52	A multi-GHz chaotic optoelectronic oscillator based on laser terminal voltage. Applied Physics Letters, 2016, 108, 191109.	3.3	21
53	Compressive Sensing with Optical Chaos. Scientific Reports, 2016, 6, 35206.	3.3	45
54	Comparative study of mid-20thC. Art using THz and X-ray imaging. , 2016, , .		0

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55	Polarization-resolved terahertz imaging of intra- and inter-laminar damages in hybrid fiber-reinforced composite laminate subject to low-velocity impact. Composites Part B: Engineering, 2016, 92, 167-174.	12.0	53
56	Sparse signal reconstruction based on experimental chaos generated by a laser diode. Proceedings of SPIE, 2016, , .	0.8	0
57	Reading a CD-ROM without a photodiode. , 2016, , .		1
58	Low-frequency fluctuations in an external-cavity laser leading to extreme events. Physical Review E, 2016, 93, 042216.	2.1	15
59	Enhanced Terahertz Imaging of Small Forced Delamination in Woven Glass Fibre-reinforced Composites with Wavelet De-noising. Journal of Infrared, Millimeter, and Terahertz Waves, 2016, 37, 289-301.	2.2	50
60	Simultaneous Bifurcation Diagrams of Carrier Number and Optical Intensity of External Cavity Laser. , 2016, , .		0
61	Polarization-resolved terahertz imaging of hybrid fiber-reinforced composite laminate subject to low-velocity impact. , 2016, , .		0
62	Experimental route to chaos of an external-cavity semiconductor laser. Physical Review A, 2015, 91, .	2.5	16
63	Impact damage characterization in hybrid fiber-reinforced composites using terahertz imaging in time and frequency domain. , 2015, , .		0
64	Multiscale Ordinal Symbolic Analysis of the Lang-Kobayashi Model for External-Cavity Semiconductor Lasers: A Test of Theory. IEEE Journal of Quantum Electronics, 2015, 51, 1-6.	1.9	11
65	Nondestructive evaluation of forced delamination in glass fiber-reinforced composites by terahertz and ultrasonic waves. Composites Part B: Engineering, 2015, 79, 667-675.	12.0	129
66	Statistical Properties of an External-Cavity Semiconductor Laser: Experiment and Theory. IEEE Journal of Selected Topics in Quantum Electronics, 2015, 21, 553-560.	2.9	5
67	Time-delay concealment and complexity enhancement of an external-cavity laser through optical injection. Optics Letters, 2015, 40, 4416.	3.3	78
68	Experimental bifurcation-cascade diagram of an external-cavity semiconductor laser. Optics Express, 2014, 22, 2348.	3.4	24
69	Ultrafast Random Bit Generation Based on the Chaotic Dynamics of a Semiconductor Laser. , 2014, , .		1
70	Statistics of the optical intensity of a chaotic external-cavity DFB laser. Optics Letters, 2014, 39, 5949.	3.3	18
71	Bifurcation-Cascade Diagrams of an External-Cavity Semiconductor Laser: Experiment and Theory. IEEE Journal of Quantum Electronics, 2014, 50, 965-972.	1.9	10
72	Bifurcation diagram of an external-cavity semiconductor laser: experiment and theory. Proceedings of SPIE, 2014, , .	0.8	1

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73	Fast random bit generation with a single chaotic laser subjected to optical feedback. , 2014, , .		0
74	Mapping the nonlinear dynamics of a laser diode via its terminal voltage. Optics Letters, 2014, 39, 5630.	3.3	11
75	Two approaches for ultrafast random bit generation based on the chaotic dynamics of a semiconductor laser. Optics Express, 2014, 22, 6634.	3.4	115
76	Experimental Bifurcation Diagram and Terminal Voltage Change of an External-cavity Semiconductor Laser. , 2014, , .		0
77	Generation of orthogonal codes with chaotic optical systems. Optics Letters, 2011, 36, 2287.	3.3	9
78	Breaking on/off phase-shift keying in optical chaos-based cryptosystems. , 2010, , .		2
79	Multiple-Access Optical Chaos-Based Communications Using Optoelectronic Systems. , 2010, , .		1
80	Chaos multiplexing with external-cavity semiconductor lasers. , 2010, , .		0
81	Spectrally efficient multiplexing of chaotic light. Optics Letters, 2010, 35, 2016.	3.3	15
82	Chaos-Based Secure Optical Communications Using Semiconductor Lasers. , 2010, , 451-478.		2
83	Multiplexing digital information using hyperchaotic optoelectronic oscillators with nonlinear time-delayed feedback loops. , 2009, , .		0
84	Multiplexed encryption using chaotic systems with multiple stochastic-delayed feedbacks. Physical Review E, 2009, 80, 066209.	2.1	26
85	Time-Delay Identification in a Chaotic Semiconductor Laser With Optical Feedback: A Dynamical Point of View. IEEE Journal of Quantum Electronics, 2009, 45, 879-1891.	1.9	191
86	Masking the time-delay of the chaotic output of an external-cavity laser. , 2008, , .		0
87	Synchronization regimes of unidirectionally coupled VCSELs with orthogonal optical injection. , 2007, , .		0
88	Polarization synchronization in unidirectionally coupled vertical-cavity surface-emitting lasers with orthogonal optical injection. Physical Review E, 2007, 75, 056213.	2.1	52
89	A simple, extremely large bandwidth, modulator-free QKD system. , 2007, , .		0
90	Influence of polarization mode competition on the synchronization of two unidirectionally coupled vertical-cavity surface-emitting lasers. Optics Letters, 2007, 32, 1629.	3.3	67

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91	Loss of time-delay signature in the chaotic output of a semiconductor laser with optical feedback. Optics Letters, 2007, 32, 2960.	3.3	190
92	Influence of digitisation on masterâ€“slave synchronisation in chaos-encrypted data transmission. IET Optoelectronics, 2007, 1, 3-8.	3.3	2
93	Polarization Synchronization Properties of Unidirectionally Coupled VCSELs. , 2007, , .		0
94	Delay-time identification in chaotic optical systems with two delays. , 2006, , .		7
95	Time delay identification in chaotic cryptosystems ruled by delay-differential equations. Journal of Optical Technology (A Translation of Opticheskii Zhurnal), 2005, 72, 373.	0.4	71
96	Synchronization regimes of optical-feedback-induced chaos in unidirectionally coupled semiconductor lasers. Physical Review E, 2002, 65, 056205.	2.1	85
97	Comparison of two types of synchronization of unidirectionally coupled external-cavity semiconductor lasers. , 2002, , .		0
98	Comparison of two types of synchronization of external-cavity semiconductor lasers. Optics Letters, 2002, 27, 31.	3.3	41
99	Secure communication scheme using chaotic laser diodes subject to incoherent optical feedback and incoherent optical injection. Optics Letters, 2001, 26, 1486.	3.3	92
100	Cryptographic scheme using chaotic laser diodes subject to incoherent optical feedback. , 2001, , .		2
101	Two types of synchronization in unidirectionally coupled chaotic external-cavity semiconductor lasers. Physical Review E, 2001, 64, 045203.	2.1	59
102	Renal insufficiency in infant: side-effect of prenatal exposure to mesalazine?. Lancet, The, 1994, 344, 620-621.	13.7	81
103	Synchronization of chaotic semiconductor lasers with phase-conjugate feedback. , 0, , .		0
104	Dynamical behavior of a multimode semiconductor laser subject to a single mode selective optical feedback. , 0, , .		0
105	Statistical study of the time between total power dropouts in a VCSEL operating in the low-frequency fluctuations regime. , 0, , .		0