

Martin van Exter

List of Publications by Year in descending order

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88
papers

4,704
citations

147801

31
h-index

95266

68
g-index

89
all docs

89
docs citations

89
times ranked

3794
citing authors

#	ARTICLE	IF	CITATIONS
1	Terahertz time-domain spectroscopy of water vapor. <i>Optics Letters</i> , 1989, 14, 1128.	3.3	742
2	Plasmon-assisted transmission of entangled photons. <i>Nature</i> , 2002, 418, 304-306.	27.8	449
3	Optical and electronic properties of doped silicon from 0.1 to 2 THz. <i>Applied Physics Letters</i> , 1990, 56, 1694-1696.	3.3	281
4	Carrier dynamics of electrons and holes in moderately doped silicon. <i>Physical Review B</i> , 1990, 41, 12140-12149.	3.2	238
5	High-brightness terahertz beams characterized with an ultrafast detector. <i>Applied Physics Letters</i> , 1989, 55, 337-339.	3.3	236
6	Observation of Goos-Hänchen shifts in metallic reflection. <i>Optics Express</i> , 2007, 15, 15928.	3.4	214
7	Observing angular deviations in the specular reflection of a light beam. <i>Nature Photonics</i> , 2009, 3, 337-340.	31.4	195
8	Ultrashort Surface-Plasmon and Phonon Dynamics. <i>Physical Review Letters</i> , 1988, 60, 49-52.	7.8	113
9	Polarization fluctuations in vertical-cavity semiconductor lasers. <i>Physical Review A</i> , 1998, 58, 4191-4205.	2.5	113
10	Elasto-optic anisotropy and polarization orientation of vertical-cavity surface-emitting semiconductor lasers. <i>Applied Physics Letters</i> , 1996, 69, 1041-1043.	3.3	111
11	Polarization Switching of a Vertical-Cavity Semiconductor Laser as a Kramers Hopping Problem. <i>Physical Review Letters</i> , 1999, 82, 4815-4818.	7.8	108
12	Experimental Test of Theories of the Detection Mechanism in a Nanowire Superconducting Single Photon Detector. <i>Physical Review Letters</i> , 2014, 112, 117604.	7.8	106
13	Electro-optic effect and birefringence in semiconductor vertical-cavity lasers. <i>Physical Review A</i> , 1997, 56, 845-853.	2.5	93
14	Quantum-Limited Linewidth of a Bad-Cavity Laser. <i>Physical Review Letters</i> , 1994, 72, 3815-3818.	7.8	89
15	Instability of higher-order optical vortices analyzed with a multi-pinhole interferometer. <i>Optics Express</i> , 2012, 20, 22961.	3.4	83
16	Shannon Dimensionality of Quantum Channels and Its Application to Photon Entanglement. <i>Physical Review Letters</i> , 2008, 101, 120502.	7.8	72
17	Two simple expressions for the spontaneous emission factor $\hat{\Gamma}^2$. <i>Physical Review A</i> , 1996, 54, 3553-3558.	2.5	66
18	Observation of Two-Photon Speckle Patterns. <i>Physical Review Letters</i> , 2010, 104, 173601.	7.8	65

#	ARTICLE	IF	CITATIONS
19	Role of optical anisotropies in the polarization properties of surface-emitting semiconductor lasers. <i>Physical Review A</i> , 1996, 54, 1647-1660.	2.5	64
20	Polarization Fluctuations Demonstrate Nonlinear Anisotropy of a Vertical-Cavity Semiconductor Laser. <i>Physical Review Letters</i> , 1998, 80, 4875-4878.	7.8	61
21	Anatomy of a Polarization Switch of a Vertical-Cavity Semiconductor Laser. <i>Physical Review Letters</i> , 2000, 84, 4337-4340.	7.8	61
22	Physical insight into the polarization dynamics of semiconductor vertical-cavity lasers. <i>Physical Review A</i> , 1998, 57, 2080-2090.	2.5	60
23	Excess Quantum Noise due to Nonorthogonal Polarization Modes. <i>Physical Review Letters</i> , 1997, 79, 4357-4360.	7.8	58
24	Tailoring the birefringence in a vertical-cavity semiconductor laser. <i>Applied Physics Letters</i> , 1996, 69, 3635-3637.	3.3	56
25	Modified detector tomography technique applied to a superconducting multiphoton nanodetector. <i>Optics Express</i> , 2012, 20, 2806.	3.4	51
26	Position-Dependent Local Detection Efficiency in a Nanowire Superconducting Single-Photon Detector. <i>Nano Letters</i> , 2015, 15, 4541-4545.	9.1	48
27	Coupled-mode description for the polarization state of a vertical-cavity semiconductor laser. <i>Physical Review A</i> , 1997, 55, 1473-1484.	2.5	44
28	Transverse mode coupling in an optical resonator. <i>Optics Letters</i> , 2005, 30, 1959.	3.3	44
29	Theory for the linewidth of a bad-cavity laser. <i>Physical Review A</i> , 1995, 51, 809-816.	2.5	41
30	Two-Photon Speckle as a Probe of Multi-Dimensional Entanglement. <i>Physical Review Letters</i> , 2009, 102, 193601.	7.8	41
31	Surface plasmon dispersion in metal hole array lasers. <i>Optics Express</i> , 2013, 21, 27422.	3.4	33
32	Electro-optic birefringence in semiconductor vertical-cavity lasers. <i>Applied Physics Letters</i> , 1997, 71, 2599-2601.	3.3	32
33	Pinning of daisy modes in optically pumped vertical-cavity surface-emitting lasers. <i>Applied Physics Letters</i> , 1998, 73, 2239-2241.	3.3	32
34	Influence of carrier dynamics on the polarization stability and noise-induced polarization hopping in surface-emitting semiconductor lasers. <i>Physical Review A</i> , 1997, 56, 1497-1507.	2.5	28
35	Purification of a single-photon nonlinearity. <i>Nature Communications</i> , 2016, 7, 12578.	12.8	28
36	Measurement of the orbital angular momentum spectrum of partially coherent beams. <i>Optics Letters</i> , 2010, 35, 889.	3.3	26

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37	Nonreciprocal reflection of a subwavelength hole array. <i>Optics Letters</i> , 2003, 28, 1906.	3.3	24
38	What is measured in a time-resolved stimulated Raman experiment?. <i>Optics Communications</i> , 1985, 56, 191-196.	2.1	23
39	Spectral filtering within the Schawlow-Townes linewidth of a semiconductor laser. <i>Physical Review Letters</i> , 1992, 69, 593-596.	7.8	23
40	Time-resolved stimulated Raman scattering in a diamond anvil cell. <i>Journal of Chemical Physics</i> , 1987, 86, 2423-2427.	3.0	21
41	Nonuniform phase diffusion in a laser. <i>Physical Review A</i> , 1991, 43, 6241-6246.	2.5	21
42	Excess Quantum Noise Is Colored. <i>Physical Review Letters</i> , 1998, 81, 5121-5124.	7.8	21
43	Correlated fluctuations in the polarization modes of a vertical-cavity semiconductor laser. <i>Physical Review A</i> , 1999, 60, 4105-4113.	2.5	21
44	Critical Petermann Factor for Intensity Noise Squeezing. <i>Physical Review Letters</i> , 2000, 85, 4711-4714.	7.8	19
45	Threshold characteristics and intensity fluctuations of lasers with excess quantum noise. <i>Physical Review A</i> , 1998, 57, 571-579.	2.5	18
46	Photon Statistics of a Laser with Slow Inversion. <i>Physical Review Letters</i> , 2001, 86, 2786-2789.	7.8	18
47	Converting an AM radio into a high-frequency lock-in amplifier in a stimulated Raman experiment. <i>Review of Scientific Instruments</i> , 1986, 57, 390-392.	1.3	17
48	Microcavity resonance condition, quality factor, and mode volume are determined by different penetration depths. <i>Optics Express</i> , 2021, 29, 6879.	3.4	17
49	Self-pulsations in vertical-cavity semiconductor lasers. <i>Applied Physics Letters</i> , 2000, 77, 3514-3516.	3.3	16
50	Polarization modal noise and dichroism in vertical-cavity semiconductor lasers. <i>Applied Physics Letters</i> , 1999, 74, 2274-2276.	3.3	15
51	Mode counting in high-dimensional orbital angular momentum entanglement. <i>Optics Express</i> , 2007, 15, 6431.	3.4	15
52	Goos-Hänchen shift for a rough metallic mirror. <i>Optics Express</i> , 2009, 17, 10864.	3.4	13
53	Fano-type interference in the point-spread function of nanohole arrays. <i>Optics Letters</i> , 2005, 30, 2436.	3.3	12
54	Optical characterization of periodically-poled KTiOPO ₄ . <i>Optics Express</i> , 2008, 16, 7344.	3.4	11

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55	Observation of fine structure in the phase locking of a non-linear oscillator. Physics Letters, Section A: General, Atomic and Solid State Physics, 1983, 99, 1-4.	2.1	10
56	Observation of wave front curvature inside a vertical-cavity surface-emitting laser. Applied Physics Letters, 1995, 66, 3561-3563.	3.3	10
57	Phase coupling of two optically pumped vertical-cavity surface-emitting lasers. Applied Physics Letters, 1996, 69, 869-871.	3.3	10
58	Effect of mode-partition noise on intensity squeezing in a two-mode laser. Journal of Optics B: Quantum and Semiclassical Optics, 1999, 1, 637-645.	1.4	10
59	Maxwell-Bloch approach to excess quantum noise. Physical Review A, 1999, 59, 4699-4702.	2.5	10
60	Search for Hermite-Gauss mode rotation in cholesteric liquid crystals. Optics Express, 2011, 19, 12978.	3.4	10
61	Surface plasmon dispersion in hexagonal, honeycomb and kagome plasmonic crystals. Optics Express, 2016, 24, 29624.	3.4	10
62	Probing the hotspot interaction length in NbN nanowire superconducting single photon detectors. Applied Physics Letters, 2017, 110, .	3.3	10
63	Polarization-resolved linewidth-power product of a vertical-cavity semiconductor laser. Journal of Applied Physics, 2001, 89, 4183-4185.	2.5	9
64	Two-mode surface plasmon lasing in hexagonal arrays. Optics Letters, 2018, 43, 166.	3.3	9
65	Numerical study of the linewidth of a semiconductor laser: Effect of saturation. Physical Review A, 1992, 45, 4864-4871.	2.5	8
66	How the carrier momentum influences the polarization properties of a vertical-cavity semiconductor laser. Physical Review A, 1999, 59, 765-772.	2.5	7
67	Transmission processes in random patterns of subwavelength holes. Optics Letters, 2011, 36, 3666.	3.3	7
68	Observation of microcavity fine structure. Physical Review A, 2022, 105, .	2.5	7
69	Interference phenomena in time-resolved stimulated Raman measurements. Optics Communications, 1986, 59, 411-416.	2.1	6
70	Observation of the phase of a Raman oscillation. Optics Communications, 1989, 70, 433-438.	2.1	6
71	Resonant Bragg scatter of surface plasmons on nanohole arrays. New Journal of Physics, 2006, 8, 57-57.	2.9	5
72	Enhanced coupling of plasmons in hole arrays with periodic dielectric antennas. Optics Letters, 2008, 33, 363.	3.3	5

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73	Extended polarized semiclassical model for quantum-dot cavity QED and its application to single-photon sources. <i>Physical Review A</i> , 2020, 101, .	2.5	4
74	Observation of the stochastic realization shift in the weak-field limit. <i>Physical Review A</i> , 1994, 49, 2861-2867.	2.5	3
75	Resonant excess quantum noise in focused-gain lasers. <i>Optics Letters</i> , 2001, 26, 1176.	3.3	3
76	A physical explanation of excess quantum noise due to non-orthogonal modes. <i>New Journal of Physics</i> , 2001, 3, 2-2.	2.9	3
77	SESAM modelocked Yb:CaGdAlO ₄ laser in the soliton modelocking regime with positive intracavity dispersion. <i>Optics Express</i> , 2014, 22, 5913.	3.4	3
78	How noise affects quantum detector tomography. <i>Journal of Applied Physics</i> , 2015, 118, .	2.5	3
79	Surface plasmon laser with two hole arrays as cavity mirrors. <i>Optica</i> , 2019, 6, 92.	9.3	3
80	Observation of mode-mixing in the spatial eigenmodes of an optical microcavity. <i>Optics Express</i> , 2022, 30, 700.	3.4	3
81	Fine structure in Fabry-Perot microcavity spectra. <i>Physical Review A</i> , 2022, 106, .	2.5	3
82	Comment on "Fourier transform coherent Raman spectroscopy". <i>Chemical Physics Letters</i> , 1988, 146, 482-484.	2.6	2
83	Rayleigh scattering of surface plasmons by sub-wavelength holes. <i>Optics Express</i> , 2014, 22, 10317.	3.4	2
84	Angle resolved transmission through metal hole gratings. <i>Optics Express</i> , 2017, 25, 9061.	3.4	2
85	Scattering media characterization with phase-only wavefront modulation. <i>Optics Express</i> , 2018, 26, 2369.	3.4	2
86	Resonant excess quantum noise in lasers with mixed guiding. <i>Optics Letters</i> , 2003, 28, 1668.	3.3	1
87	From effective-index model to phase-plate model. <i>Journal of Optics (United Kingdom)</i> , 0, , .	2.2	1
88	Scattering of guided light by a single hole in a dielectric slab. <i>Optics Express</i> , 2015, 23, 17539.	3.4	0