Martin van Exter

List of Publications by Year
in descending order

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88	4,704	147801 31	95266 68
papers	citations	h-index	g-index

89	89	89	3794
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Observation of mode-mixing in the spatial eigenmodes of an optical microcavity. Optics Express, 2022, 30, 700.	3.4	3
2	Observation of microcavity fine structure. Physical Review A, 2022, 105, .	2.5	7
3	Fine structure in Fabry-Perot microcavity spectra. Physical Review A, 2022, 106, .	2.5	3
4	Microcavity resonance condition, quality factor, and mode volume are determined by different penetration depths. Optics Express, 2021, 29, 6879.	3.4	17
5	Extended polarized semiclassical model for quantum-dot cavity QED and its application to single-photon sources. Physical Review A, 2020, 101, .	2.5	4
6	Surface plasmon laser with two hole arrays as cavity mirrors. Optica, 2019, 6, 92.	9.3	3
7	Scattering media characterization with phase-only wavefront modulation. Optics Express, 2018, 26, 2369.	3.4	2
8	Two-mode surface plasmon lasing in hexagonal arrays. Optics Letters, 2018, 43, 166.	3.3	9
9	Probing the hotspot interaction length in NbN nanowire superconducting single photon detectors. Applied Physics Letters, 2017, 110, .	3.3	10
10	Angle resolved transmission through metal hole gratings. Optics Express, 2017, 25, 9061.	3.4	2
11	Surface plasmon dispersion in hexagonal, honeycomb and kagome plasmonic crystals. Optics Express, 2016, 24, 29624.	3.4	10
12	Purification of a single-photon nonlinearity. Nature Communications, 2016, 7, 12578.	12.8	28
13	How noise affects quantum detector tomography. Journal of Applied Physics, 2015, 118, .	2.5	3
14	Position-Dependent Local Detection Efficiency in a Nanowire Superconducting Single-Photon Detector. Nano Letters, 2015, 15, 4541-4545.	9.1	48
15	Scattering of guided light by a single hole in a dielectric slab. Optics Express, 2015, 23, 17539.	3.4	0
16	SESAM modelocked Yb:CaGdAlO_4 laser in the soliton modelocking regime with positive intracavity dispersion. Optics Express, 2014, 22, 5913.	3.4	3
17	Rayleigh scattering of surface plasmons by sub-wavelength holes. Optics Express, 2014, 22, 10317.	3.4	2
18	Experimental Test of Theories of the Detection Mechanism in a Nanowire Superconducting Single Photon Detector. Physical Review Letters, 2014, 112, 117604.	7.8	106

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19	Surface plasmon dispersion in metal hole array lasers. Optics Express, 2013, 21, 27422.	3.4	33
20	Instability of higher-order optical vortices analyzed with a multi-pinhole interferometer. Optics Express, 2012, 20, 22961.	3.4	83
21	Modified detector tomography technique applied to a superconducting multiphoton nanodetector. Optics Express, 2012, 20, 2806.	3.4	51
22	Search for Hermite-Gauss mode rotation in cholesteric liquid crystals. Optics Express, 2011, 19, 12978.	3.4	10
23	Transmission processes in random patterns of subwavelength holes. Optics Letters, 2011, 36, 3666.	3.3	7
24	Measurement of the orbital angular momentum spectrum of partially coherent beams. Optics Letters, 2010, 35, 889.	3.3	26
25	Observation of Two-Photon Speckle Patterns. Physical Review Letters, 2010, 104, 173601.	7.8	65
26	Observing angular deviations in the specular reflection of a light beam. Nature Photonics, 2009, 3, 337-340.	31.4	195
27	Goos-HÃnchen shift for a rough metallic mirror. Optics Express, 2009, 17, 10864.	3.4	13
28	Two-Photon Speckle as a Probe of Multi-Dimensional Entanglement. Physical Review Letters, 2009, 102, 193601.	7.8	41
29	Shannon Dimensionality of Quantum Channels and Its Application to Photon Entanglement. Physical Review Letters, 2008, 101, 120502.	7.8	72
30	Enhanced coupling of plasmons in hole arrays with periodic dielectric antennas. Optics Letters, 2008, 33, 363.	3.3	5
31	Optical characterization of periodically-poled KTiOPO_4. Optics Express, 2008, 16, 7344.	3.4	11
32	Mode counting in high-dimensional orbital angular momentum entanglement. Optics Express, 2007, 15, 6431.	3.4	15
33	Observation of Goos-HÃnchen shifts in metallic reflection. Optics Express, 2007, 15, 15928.	3.4	214
34	Resonant Bragg scatter of surface plasmons on nanohole arrays. New Journal of Physics, 2006, 8, 57-57.	2.9	5
35	Transverse mode coupling in an optical resonator. Optics Letters, 2005, 30, 1959.	3.3	44
36	Fano-type interference in the point-spread function of nanohole arrays. Optics Letters, 2005, 30, 2436.	3.3	12

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37	Resonant excess quantum noise in lasers with mixed guiding. Optics Letters, 2003, 28, 1668.	3.3	1
38	Nonreciprocal reflection of a subwavelength hole array. Optics Letters, 2003, 28, 1906.	3.3	24
39	Plasmon-assisted transmission of entangled photons. Nature, 2002, 418, 304-306.	27.8	449
40	Resonant excess quantum noise in focused-gain lasers. Optics Letters, 2001, 26, 1176.	3.3	3
41	A physical explanation of excess quantum noise due to non-orthogonal modes. New Journal of Physics, 2001, 3, 2-2.	2.9	3
42	Polarization-resolved linewidth-power product of a vertical-cavity semiconductor laser. Journal of Applied Physics, 2001, 89, 4183-4185.	2.5	9
43	Photon Statistics of a Laser with Slow Inversion. Physical Review Letters, 2001, 86, 2786-2789.	7.8	18
44	Self-pulsations in vertical-cavity semiconductor lasers. Applied Physics Letters, 2000, 77, 3514-3516.	3.3	16
45	Anatomy of a Polarization Switch of a Vertical-Cavity Semiconductor Laser. Physical Review Letters, 2000, 84, 4337-4340.	7.8	61
46	Critical PetermannKFactor for Intensity Noise Squeezing. Physical Review Letters, 2000, 85, 4711-4714.	7.8	19
47	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
48	Correlated fluctuations in the polarization modes of a vertical-cavity semiconductor laser. Physical Review A, 1999, 60, 4105-4113.	2.5	21
49	How the carrier momentum influences the polarization properties of a vertical-cavity semiconductor laser. Physical Review A, 1999, 59, 765-772.	2.5	7
50	Maxwell-Bloch approach to excess quantum noise. Physical Review A, 1999, 59, 4699-4702.	2.5	10
51	Polarization Switching of a Vertical-Cavity Semiconductor Laser as a Kramers Hopping Problem. Physical Review Letters, 1999, 82, 4815-4818.	7.8	108
52	Polarization modal noise and dichroism in vertical-cavity semiconductor lasers. Applied Physics Letters, 1999, 74, 2274-2276.	3.3	15
53	Physical insight into the polarization dynamics of semiconductor vertical-cavity lasers. Physical Review A, 1998, 57, 2080-2090.	2.5	60
54	Pinning of daisy modes in optically pumped vertical-cavity surface-emitting lasers. Applied Physics Letters, 1998, 73, 2239-2241.	3.3	32

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55	Excess Quantum Noise Is Colored. Physical Review Letters, 1998, 81, 5121-5124.	7.8	21
56	Polarization Fluctuations Demonstrate Nonlinear Anisotropy of a Vertical-Cavity Semiconductor Laser. Physical Review Letters, 1998, 80, 4875-4878.	7.8	61
57	Polarization fluctuations in vertical-cavity semiconductor lasers. Physical Review A, 1998, 58, 4191-4205.	2.5	113
58	Threshold characteristics and intensity fluctuations of lasers with excess quantum noise. Physical Review A, 1998, 57, 571-579.	2.5	18
59	Electro-optic effect and birefringence in semiconductor vertical-cavity lasers. Physical Review A, 1997, 56, 845-853.	2.5	93
60	Influence of carrier dynamics on the polarization stability and noise-induced polarization hopping in surface-emitting semiconductor lasers. Physical Review A, 1997, 56, 1497-1507.	2.5	28
61	Excess Quantum Noise due to Nonorthogonal Polarization Modes. Physical Review Letters, 1997, 79, 4357-4360.	7.8	58
62	Coupled-mode description for the polarization state of a vertical-cavity semiconductor laser. Physical Review A, 1997, 55, 1473-1484.	2.5	44
63	Electro-optic birefringence in semiconductor vertical-cavity lasers. Applied Physics Letters, 1997, 71, 2599-2601.	3.3	32
64	Elastoâ€optic anisotropy and polarization orientation of verticalâ€cavity surfaceâ€emitting semiconductor lasers. Applied Physics Letters, 1996, 69, 1041-1043.	3.3	111
65	Two simple expressions for the spontaneous emission factor Î². Physical Review A, 1996, 54, 3553-3558.	2.5	66
66	Role of optical anisotropies in the polarization properties of surface-emitting semiconductor lasers. Physical Review A, 1996, 54, 1647-1660.	2.5	64
67	Phase coupling of two optically pumped verticalâ€cavity surfaceâ€emitting lasers. Applied Physics Letters, 1996, 69, 869-871.	3.3	10
68	Tailoring the birefringence in a verticalâ€cavity semiconductor laser. Applied Physics Letters, 1996, 69, 3635-3637.	3.3	56
69	Theory for the linewidth of a bad-cavity laser. Physical Review A, 1995, 51, 809-816.	2.5	41
70	Observation of wave front curvature inside a verticalâ€cavity surfaceâ€emitting laser. Applied Physics Letters, 1995, 66, 3561-3563.	3.3	10
71	Observation of the stochastic realization shift in the weak-field limit. Physical Review A, 1994, 49, 2861-2867.	2.5	3
72	Quantum-Limited Linewidth of a Bad-Cavity Laser. Physical Review Letters, 1994, 72, 3815-3818.	7.8	89

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73	Spectral filtering within the Schawlow-Townes linewidth of a semiconductor laser. Physical Review Letters, 1992, 69, 593-596.	7.8	23
74	Numerical study of the linewidth of a semiconductor laser: Effect of saturation. Physical Review A, 1992, 45, 4864-4871.	2.5	8
75	Nonuniform phase diffusion in a laser. Physical Review A, 1991, 43, 6241-6246.	2.5	21
76	Carrier dynamics of electrons and holes in moderately doped silicon. Physical Review B, 1990, 41, 12140-12149.	3.2	238
77	Optical and electronic properties of doped silicon from 0.1 to 2 THz. Applied Physics Letters, 1990, 56, 1694-1696.	3.3	281
78	Observation of the phase of a Raman oscillation. Optics Communications, 1989, 70, 433-438.	2.1	6
79	Terahertz time-domain spectroscopy of water vapor. Optics Letters, 1989, 14, 1128.	3.3	742
80	Highâ€brightness terahertz beams characterized with an ultrafast detector. Applied Physics Letters, 1989, 55, 337-339.	3.3	236
81	Comment on â€œfourier transform coherent Raman spectroscopyâ€. Chemical Physics Letters, 1988, 146, 482-484.	2.6	2
82	Ultrashort Surface-Plasmon and Phonon Dynamics. Physical Review Letters, 1988, 60, 49-52.	7.8	113
83	Timeâ€resolved stimulated Raman scattering in a diamond anvil cell. Journal of Chemical Physics, 1987, 86, 2423-2427.	3.0	21
84	Interference phenomena in time-resolved stimulated Raman measurements. Optics Communications, 1986, 59, 411-416.	2.1	6
85	Converting an AM radio into a highâ€frequency lockâ€in amplifier in a stimulated Raman experiment. Review of Scientific Instruments, 1986, 57, 390-392.	1.3	17
86	What is measured in a time-resolved stimulated Raman experiment?. Optics Communications, 1985, 56, 191-196.	2.1	23
87	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
88	From effective-index model to phase-plate model. Journal of Optics (United Kingdom), 0, , .	2.2	1