T W Mossberg

List of Publications by Year in Descending Order

Source: https://exaly.com/author-pdf/11478006/t-w-mossberg-publications-by-year.pdf

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

3,908 101 34 59 h-index g-index citations papers 4,243 107 3.7 4.73 L-index ext. citations avg, IF ext. papers

#	Paper	IF	Citations
101	Integrated holographic filters for flat passband optical multiplexers. <i>Optics Express</i> , 2006 , 14, 3497-502	3.3	8
100	Interferometric amplitude apodization of integrated gratings. <i>Optics Express</i> , 2005 , 13, 2419-26	3.3	8
99	Planar-waveguide integrated spectral comparator. <i>Journal of the Optical Society of America A:</i> Optics and Image Science, and Vision, 2004 , 21, 1088-92	1.8	3
98	Photonic Structures: Planar Holographic Bragg Reflectors: Building Blocks for Tomorrow Integrated. <i>Optics and Photonics News</i> , 2003 , 14, 32	1.9	4
97	Frustrated pulse-area quantization in accelerated superradiant atom-cavity systems. <i>Physical Review A</i> , 2003 , 67,	2.6	4
96	Instability, area quantization and area gaps in cavity-accelerated superradiant atom-cavity systems 2003 , 213-221		
95	Magnetic trapping of ytterbium and the alkaline-earth metals. <i>Physical Review A</i> , 2002 , 66,	2.6	22
94	Vacuum-mediated multiphoton transitions. <i>Physical Review A</i> , 2001 , 63,	2.6	11
93	Instability and pulse area quantization in accelerated superradiant atom-cavity systems. <i>Physical Review Letters</i> , 2001 , 87, 253602	7.4	5
92	Planar holographic optical processing devices. <i>Optics Letters</i> , 2001 , 26, 414-6	3	36
91	Superradiant emission dynamics of an optically thin material sample in a short-decay-time optical cavity. <i>Physical Review Letters</i> , 2000 , 85, 3793-6	7.4	34
90	Laser modulation technique for single isotope spectroscopic studies. <i>Physical Review A</i> , 2000 , 61,	2.6	2
89	Experimental study of photon-echo size in optically thick media. <i>Physical Review A</i> , 1999 , 60, R757-R760	2.6	18
88	Polarization-dependent Rabi frequency beats in the coherent response of Tm3+ in YAG. <i>Physical Review A</i> , 1999 , 60, R2657-R2660	2.6	17
87	Spatially distributed spectral storage. <i>Optics Letters</i> , 1999 , 24, 1526-8	3	2
86	Laser frequency stabilization by means of optical self-heterodyne beat-frequency control. <i>Optics Letters</i> , 1998 , 23, 1280-2	3	45
85	Experimental observation of photon echoes and power-efficiency analysis in a cavity environment. <i>Optics Letters</i> , 1998 , 23, 1736-8	3	7

84	Simple high-coherence rapidly tunable external-cavity diode laser. <i>Optics Letters</i> , 1998 , 23, 1906-8	3	32
83	Cryogenically Cooled Optical Dynamic RAM 1998 , 857-864		
82	Driving the driven atom: Spectral signatures. <i>Physical Review A</i> , 1997 , 56, R4381-R4384	2.6	43
81	Intrinsically Irreversible Multiphoton Laser Gain Mechanisms. <i>Physical Review Letters</i> , 1997 , 78, 1432-14	135.4	20
80	Observation of inversionless gain and field-assisted lasing in a nearly ideal three-level cascade-type atomic system. <i>Physical Review A</i> , 1996 , 54, 2402-2407	2.6	35
79	Single-sideband spectral holographic optical memory. <i>Optics Letters</i> , 1996 , 21, 1866-8	3	О
78	Experimental demonstration of swept-carrier time-domain optical memory. <i>Optics Letters</i> , 1995 , 20, 91-3	3	28
77	Spatial routing of optical beams through time-domain spatial-spectral filtering. <i>Optics Letters</i> , 1995 , 20, 910-2	3	38
76	Heterodyne detection of swept-carrier frequency-selective optical memory signals. <i>Optics Letters</i> , 1995 , 20, 928-30	3	7
75	Demonstration of 8-Gbit/in.(2) areal storage density based on swept-carrier frequency-selective optical memory. <i>Optics Letters</i> , 1995 , 20, 1658-60	3	84
74	Optical bit-rate conversion and bit-stream time reversal by the use of swept-carrier frequency-selective optical data storage techniques. <i>Optics Letters</i> , 1995 , 20, 2033-5	3	10
73	Experimental demonstration of temporal-waveform-controlled spatial routing of optical beams by spatial-spectral filtering. <i>Optics Letters</i> , 1995 , 20, 2541	3	17
72	Coherently driven three-level atoms: unexpected inversions, pump bandwidth effects and observation of continuous lasing. <i>Journal of the European Optical Society Part B: Quantum Optics</i> , 1994 , 6, 287-303		6
71	Strong atom-cavity coupling over large volumes and the observation of subnatural intracavity atomic linewidths. <i>Physical Review Letters</i> , 1994 , 73, 1489-1492	7.4	31
70	Inversionless gain in driven three-level ssV-type atoms: A comparison of broadband and monochromatic excitation. <i>Physical Review A</i> , 1994 , 50, 3394-3400	2.6	30
69	Optical resonance and coherent transients in dressed atomic systems. <i>Physical Review A</i> , 1994 , 50, 147	4- <u>1</u> .€78	22
68	Phase-sensitive dynamics of bichromatically driven two-level atoms. <i>Physical Review A</i> , 1994 , 49, R1519)- <u>R</u> .1652	2 39
67	Quasi-two-dimensional time-domain color memories: process limitations and potentials. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1994 , 11, 1948	1.7	15

66	Laser-induced photonic-continuum structure. <i>Physical Review A</i> , 1993 , 48, 764-769	2.6	5
65	Dynamically induced irreversibility in coherently driven systems. <i>Physical Review Letters</i> , 1993 , 71, 4311	- 4 3 ₁ 14	34
64	Optically induced shifts in the frequency of the 3H4-1D2 transition of Pr3+ in LaF3. <i>Physical Review B</i> , 1993 , 48, 7668-7671	3.3	6
63	Lasing without inversion: Gain enhancement through spectrally colored population pumping. <i>Physical Review A</i> , 1993 , 48, 4055-4058	2.6	24
62	Radiative properties of strongly driven atoms in the presence of photonic bands and gaps. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1993 , 10, 340	1.7	27
61	Realization of a continuous-wave, two-photon optical laser. <i>Physical Review Letters</i> , 1992 , 68, 464-467	7.4	131
60	Swept-carrier time-domain optical memory. <i>Optics Letters</i> , 1992 , 17, 535-7	3	37
59	Observation of linewidth narrowing due to coherent stabilization of quantum fluctuations. <i>Physical Review Letters</i> , 1991 , 66, 2460-2463	7.4	89
58	Trapping and cooling of atoms in a vacuum perturbed in a frequency-dependent manner. <i>Physical Review Letters</i> , 1991 , 67, 1723-1726	7.4	41
57	Use of phase-noisy laser fields in the storage of optical pulse shapes in inhomogeneously broadened absorbers. <i>Optics Letters</i> , 1991 , 16, 103-5	3	14
56	Spectrum of radiation from two-level atoms under intense bichromatic excitation. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1991 , 8, 1163	1.7	92
55	Two-photon gain and lasing in strongly driven two-level atoms. <i>Physical Review Letters</i> , 1990 , 64, 3131-	3 1 34	66
54	Observation of a two-photon gain feature in the strong-probe absorption spectrum of driven two-level atoms. <i>Physical Review Letters</i> , 1990 , 65, 1200-1203	7.4	45
53	Resonance fluorescence of two-level atoms under strong bichromatic excitation. <i>Physical Review A</i> , 1990 , 41, 6574-6576	2.6	93
52	Radiative emission of driven two-level atoms into the modes of an enclosing optical cavity: The transition from fluorescence to lasing. <i>Physical Review A</i> , 1990 , 41, 1576-1581	2.6	88
51	Vacuum Rabi splitting as a feature of linear-dispersion theory: Analysis and experimental observations. <i>Physical Review Letters</i> , 1990 , 64, 2499-2502	7.4	449
50	Effect of optical gain on the fluorescence of two-level atoms into the modes of an optical cavity. <i>Physical Review A</i> , 1989 , 39, 2268-2271	2.6	20
49	Optical dephasing, hyperfine structure, and hyperfine relaxation associated with the 580.8-nm 7F0-5D0 transition of europium in Eu3+:Y2O3. <i>Physical Review B</i> , 1989 , 39, 1987-1992	3.3	59

[1986-1989]

48	Excess dephasing in photon-echo experiments arising from excitation-induced electronic level shifts. <i>Physical Review Letters</i> , 1989 , 63, 78-81	7.4	81
47	Cavity-perturbed strong-field resonance fluorescence. <i>Physical Review A</i> , 1989 , 39, 2754-2757	2.6	24
46	Polarization of Dressed Atom-Field States in the Transient and Steady-State Regimes 1989 , 1291-1295		
45	Radiative and dynamical properties of homogeneously prepared atomic samples. <i>Physical Review A</i> , 1988 , 37, 119-124	2.6	31
44	Spectral and statistical properties of strongly driven atoms coupled to frequency-dependent photon reservoirs. <i>Physical Review A</i> , 1988 , 37, 2048-2062	2.6	88
43	Vacuum-field dressed-state pumping. <i>Physical Review Letters</i> , 1988 , 61, 1946-1949	7.4	77
42	Non-exponential spontaneous decay in cavities and waveguides. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1988 , 21, L9-L14	1.3	42
41	Dynamical suppression of spontaneous emission. <i>Physical Review Letters</i> , 1987 , 59, 775-778	7.4	120
40	Transient spectra of strong-field resonance fluorescence. <i>Physical Review Letters</i> , 1987 , 59, 2149-2152	7.4	26
39	Time-dependent spectrum of resonance fluorescence for atoms prepared in pure dressed states. <i>Physical Review A</i> , 1986 , 34, 319-325	2.6	22
38	Transient probe spectra in strongly driven atoms and their dependence on initial atomic conditions. <i>Physical Review A</i> , 1986 , 33, 3956-3969	2.6	32
37	Time reversal of optical nutation signals. <i>Physical Review A</i> , 1986 , 34, 1222-1227	2.6	11
36	Multipole-specific, model-independent, velocity-change spectra of collisionally perturbed 3P1-state 174Yb atoms. <i>Physical Review A</i> , 1986 , 34, 5150-5153	2.6	8
35	Studies of picosecond collisional dephasing in atomic sodium vapor using broad-bandwidth transient four-wave mixing. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1986 , 3, 554	1.7	51
34	Mixed binary multiplication of optical signals by convolution in an inhomogeneously broadened absorber. <i>Applied Optics</i> , 1986 , 25, 962	1.7	16
33	Experimental studies of photo-echo pulse compression. <i>Optics Letters</i> , 1986 , 11, 30	3	18
32	Ultrahigh-frequency interference beats in transient, incoherent-light four-wave mixing. <i>Optics Letters</i> , 1986 , 11, 431-3	3	24
31	Coherent transient optical pulse-shape storage/recall using frequency-swept excitation pulses. Optics Letters, 1986, 11, 724-6	3	40

30	Transient suppression of the Autler-Townes doublet. <i>Physical Review Letters</i> , 1986 , 57, 1692-1695	7.4	37
29	Collisional relaxation of excited-state Zeeman coherences in atomic ytterbium vapor. <i>Physical Review A</i> , 1985 , 32, 844-853	2.6	15
28	Spectrally ordered Zeeman coherences and optical pulse-shape storage. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1985 , 2, 908	1.7	14
27	Selective excitation of dressed atomic states by use of phase-controlled optical fields. <i>Physical Review Letters</i> , 1985 , 55, 1277-1280	7.4	80
26	Colliding Without Relaxing: The Suppression of Collisional Dephasing with Strong Optical Fields. <i>Springer Series in Optical Sciences</i> , 1985 , 296-297	0.5	O
25	Temporally programmed free-induction decay. <i>Physical Review A</i> , 1984 , 30, 1572-1574	2.6	23
24	Photon echo optical pulse compression. <i>Applied Physics Letters</i> , 1984 , 45, 1269-1271	3.4	13
23	Optically Inhibited Collisional Dephasing. <i>Physical Review Letters</i> , 1984 , 53, 659-662	7.4	32
22	Switching of photon-echo polarization and direction by coherent optical fields. <i>Physical Review A</i> , 1984 , 29, 225-229	2.6	2
21	Real-time optical waveform convolver/cross correlator. <i>Applied Physics Letters</i> , 1984 , 45, 714-716	3.4	76
20	Field-inhibited optical dephasing and shape locking of photon echoes. <i>Optics Letters</i> , 1984 , 9, 232-4	3	17
19	Standing-Wave Induced Backward Photon Echoes in Gases 1984 , 309-315		O
18	Storage and time reversal of light pulses using photon echoes. Optics Letters, 1983, 8, 483-5	3	79
17	Storage and phase conjugation of light pulses using stimulated photon echoes. <i>Optics Letters</i> , 1983 , 8, 623-5	3	28
16	Standing-WaveInduced Backward Photon Echoes in Gases. <i>Physical Review Letters</i> , 1983 , 51, 35-38	7.4	3
15	Collision kernels and laser spectroscopy. <i>Physical Review A</i> , 1982 , 25, 2550-2571	2.6	82
14	Noble-gas-induced collisional broadening of the 6P12BP32 transition of T1 measured by Raman echoes. <i>Physical Review A</i> , 1982 , 25, 3097-3101	2.6	13
13	Relative noble-gas-induced broadening of the D lines of atomic lithium. <i>Physical Review A</i> , 1982 , 25, 154 6. 65496		

LIST OF PUBLICATIONS

12	Time-domain frequency-selective optical data storage. <i>Optics Letters</i> , 1982 , 7, 77-9	3	300
11	Coherent transients theorem: A comment. <i>Physical Review A</i> , 1981 , 24, 2247-2249	2.6	5
10	Measurement of a Total Atomic-Radiator-Perturber Scattering Cross Section. <i>Physical Review Letters</i> , 1981 , 47, 902-905	7.4	26
9	Diagrammatic representation of photon echoes and other laser-induced ordering processes in gases. <i>Physical Review A</i> , 1981 , 23, 1271-1280	2.6	38
8	Noble Gas Induced Relaxation of the Li 3S-3P Transition Spanning the Short Term Impact Regime to the Long Term Asymptotic Regime. <i>Springer Series in Optical Sciences</i> , 1981 , 208-211	0.5	
7	Noble-gas broadening of the sodium D lines measured by photon echoes. <i>Journal of Physics B:</i> Atomic and Molecular Physics, 1980 , 13, L363-L368		26
6	Noble-gas-induced broadening of transitions to Rydberg S and D states in atomic sodium. <i>Physical Review A</i> , 1980 , 21, 1124-1133	2.6	44
5	Noble-gas-induced collisional broadening of the 3P12BP32 transition of sodium measured by the trilevel-echo technique. <i>Physical Review A</i> , 1980 , 22, 1962-1969	2.6	25
4	N2- and CO-induced collisional broadening of forbidden ground-to-Rydberg-state transitions in sodium as measured by trilevel echoes. <i>Physical Review A</i> , 1980 , 22, 1953-1957	2.6	7
3	Observation of Collisional Velocity Changes Associated with Atoms in a Superposition of Dissimilar Electronic States. <i>Physical Review Letters</i> , 1980 , 44, 73-77	7.4	31
2	Echoes in gaseous media: A generalized theory of rephasing phenomena. <i>Physical Review A</i> , 1979 , 20, 1976-1996	2.6	140
1	Temporally Recurrent Spatial Ordering of Atomic Population in Gases: Grating Echoes. <i>Physical Review Letters</i> , 1979 , 43, 851-855	7.4	32