Mark Cronin-Golomb

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

126 papers

4,714 citations

34 h-index 66 g-index

136 ext. papers

5,265 ext. citations

2.8 avg, IF

4.88 L-index

#	Paper	IF	Citations
126	Theory and applications of four-wave mixing in photorefractive media. <i>IEEE Journal of Quantum Electronics</i> , 1984 , 20, 12-30	2	520
125	Over 4000 nm bandwidth of mid-IR supercontinuum generation in sub-centimeter segments of highly nonlinear tellurite PCFs. <i>Optics Express</i> , 2008 , 16, 7161-8	3.3	325
124	Efficient low-intensity optical phase conjugation based on coherent population trapping in sodium. <i>Optics Letters</i> , 1995 , 20, 982	3	302
123	Surface organization and nanopatterning of collagen by dip-pen nanolithography. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001 , 98, 13660-4	11.5	269
122	Bioactive silk protein biomaterial systems for optical devices. <i>Biomacromolecules</i> , 2008 , 9, 1214-20	6.9	248
121	Coherent oscillation by self-induced gratings in the photorefractive crystal BaTiO3. <i>Applied Physics Letters</i> , 1982 , 40, 450-452	3.4	244
120	Amplified reflection, transmission, and self-oscillation in real-time holography. <i>Optics Letters</i> , 1981 , 6, 519-21	3	140
119	Exact solution of a nonlinear model of four-wave mixing and phase conjugation. <i>Optics Letters</i> , 1982 , 7, 313-5	3	104
118	Passive phase conjugate mirror based on self-induced oscillation in an optical ring cavity. <i>Applied Physics Letters</i> , 1983 , 42, 919-921	3.4	99
117	Osteoblastic differentiation and stress response of human mesenchymal stem cells exposed to alternating current electric fields. <i>BioMedical Engineering OnLine</i> , 2011 , 10, 9	4.1	90
116	Compact resonant integrated microfluidic refractometer. <i>Applied Physics Letters</i> , 2006 , 88, 093513	3.4	83
115	Passive (self-pumped) phase conjugate mirror: Theoretical and experimental investigation. <i>Applied Physics Letters</i> , 1982 , 41, 689-691	3.4	82
114	Photorefractive time differentiation of coherent optical images. <i>Optics Letters</i> , 1987 , 12, 1029-31	3	76
113	Photorefractive surface waves. <i>Optics Letters</i> , 1995 , 20, 2075-7	3	72
112	Amplifying continuous wave phase conjugate mirror with strontium barium niobate. <i>Applied Physics Letters</i> , 1982 , 40, 863-865	3.4	67
111	Optical limiters using photorefractive nonlinearities. <i>Journal of Applied Physics</i> , 1985 , 57, 4906-4910	2.5	66
110	Optofluidics: a novel generation of reconfigurable and adaptive compact architectures. <i>Microfluidics and Nanofluidics</i> , 2008 , 4, 81-95	2.8	65

(2000-1986)

109	Narrow linewidth, single frequency semiconductor laser with a phase conjugate external cavity mirror. <i>Applied Physics Letters</i> , 1986 , 49, 1563-1565	3.4	60
108	Laser with dynamic holographic intracavity distortion correction capability. <i>Applied Physics Letters</i> , 1982 , 41, 219-220	3.4	55
107	. IEEE Journal of Quantum Electronics, 1986, 22, 1508-1523	2	53
106	Fabrication and optical characterization of Pb(Mg1/3Nb2/3)O3-PbTiO3 planar thin film optical waveguides. <i>Applied Physics Letters</i> , 1998 , 72, 2927-2929	3.4	52
105	Solitonlike optical switching in a circular fiber array. <i>Optics Letters</i> , 1994 , 19, 320-2	3	52
104	Optical bistability and hysteresis with a photorefractive self-pumped phase conjugate mirror. <i>Applied Physics Letters</i> , 1984 , 45, 1016-1018	3.4	52
103	Self-bending photorefractive solitons. <i>Physical Review E</i> , 1996 , 54, 5761-5765	2.4	51
102	Infrared photorefractive passive phase conjugation with BaTiO3: Demonstrations with GaAlAs and 1.09-fh Ar+ lasers. <i>Applied Physics Letters</i> , 1985 , 47, 567-569	3.4	48
101	Application of optical trapping to beam manipulation in optofluidics. <i>Optics Express</i> , 2005 , 13, 7265-75	3.3	47
100	Coherent coupling of diode lasers by phase conjugation. <i>Applied Physics Letters</i> , 1986 , 48, 1240-1242	3.4	47
99	Cascaded nonlinear difference-frequency generation of enhanced terahertz wave production. <i>Optics Letters</i> , 2004 , 29, 2046-8	3	46
98	Real-time phase conjugate window for one-way optical field imaging through a distortion. <i>Applied Physics Letters</i> , 1982 , 41, 141-143	3.4	45
97	Femtosecond temporal encoding in barium titanate. <i>Optics Letters</i> , 1991 , 16, 1984-6	3	44
96	Chaos in photorefractive four-wave mixing with a single grating and a single interaction region. Journal of the Optical Society of America B: Optical Physics, 1990, 7, 1204	1.7	42
95	Vibration resistance, short coherence length operation, and mode-locked pumping in passive phase conjugate mirrors. <i>Applied Physics Letters</i> , 1985 , 47, 1131-1133	3.4	38
94	Self-induced frequency scanning and distributed Bragg reflection in semiconductor lasers with phase-conjugate feedback. <i>Optics Letters</i> , 1986 , 11, 455-7	3	37
93	Antiparallel ferroelectric domains in photorefractive barium titanate and strontium barium niobate observed by high-resolution x-ray diffraction imaging. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1996 , 13, 2636	1.7	36
92	PLZT film waveguide Mach-Zehnder electrooptic modulator. <i>Journal of Lightwave Technology</i> , 2000 , 18, 807-812	4	33

91	Distortion-free gain and noise correlation in sodium vapor with four-wave mixing and coherent population trapping. <i>Optics Letters</i> , 1997 , 22, 769-71	3	31
90	Whole beam method for photorefractive nonlinear optics. <i>Optics Communications</i> , 1992 , 89, 276-282	2	31
89	Photorefractive two-beam-coupling nonlinear joint-transform correlator. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1994 , 11, 2167	1.7	28
88	Structural and electro-optic properties in lead magnesium niobate titanate thin films. <i>Applied Physics Letters</i> , 1999 , 74, 3038-3040	3.4	27
87	Stability analysis and temporal behavior of four-wave mixing in photorefractive crystals. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1989 , 6, 1828	1.7	25
86	Photorefractive optical lock-in detector. <i>Optics Letters</i> , 1991 , 16, 1442-4	3	25
85	Photorefractive phase conjugation with orthogonally polarized pumping beams. <i>Optics Letters</i> , 1988 , 13, 324-6	3	25
84	Nonlinear vectorial two-beam coupling and forward four-wave mixing in photorefractive materials. <i>Optics Letters</i> , 1986 , 11, 239	3	25
83	Self-pumped phase conjugation in InP:Fe. Applied Physics Letters, 1989, 54, 1968-1970	3.4	24
82	Phase of phase conjugation and its effect in the double phase-conjugate resonator. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 1986 , 3, 157	1.8	24
81	High nonlinearity glass photonic crystal nanowires. <i>Optics Express</i> , 2007 , 15, 829-33	3.3	22
80	Photoresponsive retinal-modified silk-elastin copolymer. <i>Journal of the American Chemical Society</i> , 2013 , 135, 3675-9	16.4	21
79	Gold nanoparticle-doped biocompatible silk films as a path to implantable thermo-electrically wireless powering devices. <i>Applied Physics Letters</i> , 2010 , 97, 123702	3.4	21
78	Frontiers in microphotonics: tunability and all-optical control. <i>Laser Physics Letters</i> , 2007 , 4, 177-186	1.5	21
77	Imaging microscopic viscosity with confocal scanning optical tweezers. <i>Optics Letters</i> , 2002 , 27, 264-6	3	21
76	Noise reduction using adaptive spatial filtering in photorefractive two-beam coupling. <i>Optics Letters</i> , 1991 , 16, 747-9	3	21
75	Conversion of optical path length to frequency by an interferometer using photorefractive oscillation. <i>Applied Physics Letters</i> , 1985 , 47, 460-462	3.4	21
74	Microscopic flow measurements with optically trapped microprobes. <i>Optics Letters</i> , 2002 , 27, 1357-9	3	20

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73	Turbulence-aberration correction with high-speed high-gain optical phase conjugation in sodium vapor. <i>Optics Letters</i> , 1997 , 22, 1141-3	3	19
7 2	Dynamically programmable self-aligning optical interconnect with fan-out and fan-in using self-pumped phase conjugation. <i>Applied Physics Letters</i> , 1989 , 54, 2189-2191	3.4	19
71	Ring self-pumped phase conjugator using total internal reflection in photorefractive strontium barium niobate. <i>Optics Letters</i> , 1989 , 14, 462-4	3	19
70	Almost all transmission grating self-pumped phase-conjugate mirrors are equivalent. <i>Optics Letters</i> , 1990 , 15, 897-9	3	19
69	Optical bistability in photorefractive four-wave mixing. Optics Communications, 1988, 65, 301-305	2	19
68	Multicolor passive (self-pumped) phase conjugation. <i>Applied Physics Letters</i> , 1984 , 44, 727-729	3.4	19
67	Optically induced birefringence and holography in silk. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2012 , 50, 257-262	2.6	18
66	Simple fabrication technique for rapid prototyping of seamless cylindrical microchannels in polymer substrates. <i>Review of Scientific Instruments</i> , 2007 , 78, 044302	1.7	16
65	Photoluminescence in erbium-doped Pb(Mg1/3Nb2/3)O3PbTiO3 thin films. <i>Applied Physics Letters</i> , 1999 , 75, 3470-3472	3.4	16
64	Photorefractive frequency converter and phase-sensitive detector. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1993 , 10, 72	1.7	16
63	Achromatic volume holography using dispersive compensation for grating tilt. <i>Optics Letters</i> , 1989 , 14, 1297-9	3	16
62	Nondegenerate optical oscillation in a resonator formed by two phase-conjugate mirrors. <i>Optics Letters</i> , 1985 , 10, 353-5	3	16
61	Photorefractive two-beam coupling with light of partial spatiotemporal coherence. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1992 , 9, 1698	1.7	14
60	Photorefractive wave mixing with finite beams. <i>Optics Communications</i> , 1992 , 89, 88-98	2	14
59	Photorefractive effect in ferroelectric lead germanate. <i>Applied Physics Letters</i> , 1990 , 57, 7-9	3.4	14
58	Photorefractive two-beam coupling with reduced spatiotemporal coherence. <i>Optics Letters</i> , 1991 , 16, 1183-5	3	14
57	Plane-wave theory of nondegenerate oscillation in the linear photorefractive passive phase-conjugate mirror. <i>Optics Letters</i> , 1986 , 11, 242	3	14
56	Epitaxial electro-optical SrxBa1Nb2O6 films by single-source plasma-enhanced metalorganic chemical vapor deposition. <i>Applied Physics Letters</i> , 1995 , 67, 1836-1838	3.4	13

55	Degenerate four-wave mixing in (Pb, La) (Zr, Ti)O3 polycrystalline film fabricated by metalorganic chemical-liquid deposition. <i>Applied Physics Letters</i> , 1999 , 74, 3116-3118	3.4	12
54	Photorefractive holographic interference novelty filter. <i>Optics Communications</i> , 1991 , 82, 533-538	2	12
53	Measuring microscopic viscosity with optical tweezers as a confocal probe. <i>Applied Optics</i> , 2003 , 42, 18	2 0.3 2	11
52	All-optical nonlinear joint Fourier transform correlator. <i>Applied Optics</i> , 1994 , 33, 8216-25	1.7	11
51	Nonlinear optics and phase conjugation in photorefractive materials. <i>Journal of Crystal Growth</i> , 1991 , 109, 345-352	1.6	11
50	Photo-induced structural modification of silk gels containing azobenzene side groups. <i>Soft Matter</i> , 2017 , 13, 2903-2906	3.6	10
49	Effect of hollow-core photonic crystal fiber microstructure on transverse optical trapping. <i>Applied Physics Letters</i> , 2009 , 94, 141101	3.4	10
48	Quadratic processing and nonlinear optical phase rectification in noise reduction. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1994 , 11, 1960	1.7	10
47	Temporal instabilities in an externally driven ring phase conjugator. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1991 , 8, 1455	1.7	10
46	Experimental studies of phase conjugation with depleted pumps in photorefractive media. <i>Optics Letters</i> , 1985 , 10, 359-61	3	10
45	Diffraction gratings and solar selective thin film absorbers: An experimental study. <i>Optics Communications</i> , 1978 , 27, 177-180	2	10
44	High-resolution nanomechanical analysis of suspended electrospun silk fibers with the torsional harmonic atomic force microscope. <i>Beilstein Journal of Nanotechnology</i> , 2013 , 4, 243-8	3	9
43	Model of amplified scattering in photorefractive media: comparison of numerical results and experiment. <i>Optics Letters</i> , 1995 , 20, 432-4	3	9
42	Surface-strain effects on photorefractive gratings. <i>Optics Letters</i> , 1995 , 20, 2276	3	9
41	Photorefractive time correlation motion detection. <i>Optics Communications</i> , 1991 , 85, 5-9	2	9
40	Stability of multiple solutions in photorefractive four-wave mixing with external electrical field. <i>Optics Communications</i> , 1990 , 76, 151-156	2	9
39	Self-pumped optical phase conjugation with a sodium Raman laser. <i>Optics Letters</i> , 1991 , 16, 1313-5	3	9
38	Semi-self-pumped phase-conjugate mirrors. <i>Optics Letters</i> , 1987 , 12, 714-6	3	9

37	. IEEE Photonics Technology Letters, 1993 , 5, 336-339	2.2	8
36	Analysis of the dual discrimination ability of the two-port photorefractive joint transform correlator. <i>Applied Optics</i> , 1995 , 34, 8154-66	1.7	7
35	Photorefractive quadratic processor for signal recovery from multiplicative complex noise. <i>Optical Engineering</i> , 1993 , 32, 2872	1.1	7
34	Actuation of cantilevers by optical trapping. <i>Applied Physics Letters</i> , 2006 , 89, 071106	3.4	6
33	Grating competition for charge carriers in photorefractive bismuth silicon oxide. <i>Journal of Applied Physics</i> , 1995 , 77, 7-10	2.5	6
32	Towards an Integrated Optofluidic Diffractive Spectrometer. <i>IEEE Photonics Technology Letters</i> , 2007 , 19, 1976-1978	2.2	5
31	Laser beam cleanup with photorefractive two-beam coupling. Optics Letters, 1995, 20, 1459-61	3	5
30	Optical bistability in the semilinear phase-conjugate mirror. <i>Applied Physics B, Photophysics and Laser Chemistry</i> , 1991 , 52, 150-153		5
29	Photorefractive Materials, Effects, and Devices Introduction. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1990 , 7, 2242	1.7	5
28	Canceling beam deflection in an acousto-optic frequency shifter using a self-pumped phase conjugating mirror. <i>Applied Physics Letters</i> , 1985 , 47, 346-348	3.4	5
27	Optofluidic sensing and actuation with optical tweezers. <i>Journal of Optics</i> , 2007 , 9, S129-S133		4
26	. Journal of Lightwave Technology, 1995 , 13, 55-61	4	4
25	Photorefractive deamplification of additive signal-dependent noise. <i>Optical Engineering</i> , 1993 , 32, 2877	1.1	4
24	Experimental study of achromatic volume holography with dispersive compensation in barium titanate. <i>Optics Letters</i> , 1992 , 17, 297-9	3	4
23	Achromatic double phase conjugate mirror. <i>Optics Communications</i> , 1992 , 93, 92-98	2	4
22	Widely tunable efficient intracavity quasiphase-matched midinfrared generation. <i>Applied Physics Letters</i> , 1997 , 70, 2218-2220	3.4	3
21	On the relationship between artificial Kerr nonlinearities and the photorefractive effect. <i>Journal Physics D: Applied Physics</i> , 2008 , 41, 224001	3	3
20	Surface Organization and Nanopatterning of Collagen by Dip Pen Nanolithography. <i>Microscopy and Microanalysis</i> , 2002 , 8, 1020-1021	0.5	3

19	Applications of birefringent phase matching for photorefractive devices. <i>Optics Letters</i> , 1995 , 20, 2252	3	3
18	Photorefractive two-beam coupling optimal thresholding filter for additive signal-dependent noise reduction. <i>Applied Optics</i> , 1995 , 34, 346-51	1.7	3
17	Wave propagation in photorefractive media. <i>Topics in Applied Physics</i> , 1989 , 101-150	0.5	3
16	Phase conjugate interferometric measurement of thin film parameters. <i>Applied Optics</i> , 1989 , 28, 5196-7	1.7	3
15	Photorefractive Materials, Effects, and Devices. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1996 , 13, 2190	1.7	2
14	Photorefractive mixing of amplitude-modulated signals. <i>Optics Letters</i> , 1994 , 19, 743-5	3	2
13	Real-time holographic frequency-division demultiplexing: theoretical aspects. <i>Applied Optics</i> , 1994 , 33, 5390-5	1.7	2
12	Controlling Supramolecular Structures of Drugs by Light. <i>Molecular Pharmaceutics</i> , 2020 , 17, 4704-4708	5.6	2
11	Applications of optical tweezers to optofluidics 2006,		1
10	Terahertz parametric generation photonic band gap structure with negligible structural dispersion in the optical range. <i>Optics Express</i> , 2006 , 14, 1933-41	3.3	1
9	Use of tethering for axial confinement in optical tweezers 2004 , 5514, 467		1
8	Terahertz wave generation by photonic bandgap materials 2004 ,		1
7	Raman phase conjugate resonator for intracavity aero-optic turbulence aberration correction. <i>Optics Communications</i> , 1999 , 160, 283-288	2	1
6	Ti:Al2O3 laser with phase conjugate feedback of the residual pump. <i>Optics Communications</i> , 1990 , 77, 325-328	2	1
5	Phase-conjugate interferometric analysis of thin films. <i>Applied Optics</i> , 1991 , 30, 5090-3	1.7	1
4	Supercontinuum trap stiffness measurement using a confocal approach. <i>Optics Express</i> , 2010 , 18, 26499)- <u>\$</u> .94	
3	Fabrication of large-cross-section single-mode reverse-ridge PLZT waveguides. <i>Microwave and Optical Technology Letters</i> , 1999 , 20, 121-124	1.2	
2	Gravitationally induced pulsing of a resonator with two phase-conjugating mirrors and an injected signal. <i>Physical Review A</i> , 1990 , 42, 3142-3144	2.6	

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