

Andrew M Weiner

List of Publications by Year in descending order

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178
papers

9,507
citations

47006

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94
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181
all docs

181
docs citations

181
times ranked

5161
citing authors

#	ARTICLE	IF	CITATIONS
1	2022 Roadmap on integrated quantum photonics. JPhys Photonics, 2022, 4, 012501.	4.6	152
2	Bell state analyzer for spectrally distinct photons. Optica, 2022, 9, 280.	9.3	7
3	Temporal modulation of a spectral compressor for efficient quantum storage. Optics Letters, 2022, 47, 1387.	3.3	2
4	High-dimensional discrete Fourier transform gates with a quantum frequency processor. Optics Express, 2022, 30, 10126.	3.4	15
5	Switching dynamics of dark-pulse Kerr frequency comb states in optical microresonators. Physical Review A, 2021, 103, .	2.5	30
6	InP high power monolithically integrated widely tunable laser and SOA array for hybrid integration. Optics Express, 2021, 29, 3490.	3.4	6
7	Development of Quantum Interconnects (QulCs) for Next-Generation Information Technologies. PRX Quantum, 2021, 2, .	9.2	172
8	W-Band Photonic Pulse Compression Radar With Dual Transmission Mode Beamforming. Journal of Lightwave Technology, 2021, 39, 1619-1628.	4.6	5
9	Adaptive bandwidth management for entanglement distribution in quantum networks. Optica, 2021, 8, 329.	9.3	41
10	Time-resolved detection of phase-coherent biphoton frequency combs from Si3N4 microring. , 2021, , .		1
11	Spectral Compression and Broadening using Time-Varying Cavities. , 2021, , .		0
12	High-dimensional frequency-bin tomography with random measurements. , 2021, , .		0
13	Reconfigurable Quantum Local Area Network Over Deployed Fiber. PRX Quantum, 2021, 2, .	9.2	46
14	Remote State Preparation in a Reconfigurable Quantum Local Area Network. , 2021, , .		0
15	Optical Division of an Octave-Spanning Comb on an All-Silicon Nitride Platform. , 2021, , .		0
16	Randomized tomography of on-chip biphoton frequency combs. , 2021, , .		0
17	Probing quantum walks through coherent control of high-dimensionally entangled photons. Science Advances, 2020, 6, eaba8066.	10.3	19
18	Fully Arbitrary Control of Frequency-Bin Qubits. Physical Review Letters, 2020, 125, 120503.	7.8	33

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19	All-Optical Frequency Processor for Networking Applications. Journal of Lightwave Technology, 2020, 38, 1678-1687.	4.6	15
20	Deterministic access of broadband frequency combs in microresonators using cnoidal waves in the soliton crystal limit. Optics Express, 2020, 28, 36304.	3.4	11
21	Efficient compressive and Bayesian characterization of biphoton frequency spectra. Optics Letters, 2020, 45, 2886.	3.3	9
22	Spectral compression using time-varying cavities. Optics Letters, 2020, 45, 5688.	3.3	6
23	Agile frequency transformations for dense wavelength-multiplexed communications. Optics Express, 2020, 28, 20379.	3.4	4
24	Arbitrary single-qubit transformations on a quantum frequency processor. , 2020, , .		0
25	Polarization diversity phase modulator for frequency-bin operations with hyperentangled biphoton frequency combs. , 2020, , .		0
26	A Deterministic Method for Obtaining Large-Bandwidth Frequency Combs in Microresonators with Thermal Effects. , 2020, , .		0
27	All-optical frequency hopping and broadcasting in wavelength-multiplexed channels. , 2020, , .		0
28	Harnessing entanglement in polarization state and frequency-bin for quantum communication and networking. , 2020, , .		0
29	Quantum many-body simulations through quantum walks of high-dimensionally entangled photons. , 2020, , .		0
30	A Bell-state analyzer for photonic frequency. , 2020, , .		0
31	Bayesian reconstruction of biphoton frequency correlations. , 2020, , .		0
32	Simulations of subatomic many-body physics on a quantum frequency processor. Physical Review A, 2019, 100, .	2.5	87
33	High-dimensional optical quantum logic in large operational spaces. Npj Quantum Information, 2019, 5, .	6.7	92
34	Quantum Information Processing With Frequency-Comb Qudits. IEEE Photonics Technology Letters, 2019, 31, 1858-1861.	2.5	34
35	Hot-Cavity Spectroscopy of Dark Pulse Kerr Combs in Microresonators. , 2019, , .		0
36	Kerr Combs for Stimulated Brillouin Scattering Mitigation in Long-Haul Analog Optical Links. Journal of Lightwave Technology, 2019, 37, 5773-5779.	4.6	5

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37	A controlled-NOT gate for frequency-bin qubits. Npj Quantum Information, 2019, 5, .	6.7	61
38	Quantum optical microcombs. Nature Photonics, 2019, 13, 170-179.	31.4	295
39	Switching Dynamics of Dark Solitons in Kerr Microresonators. , 2019, , .		0
40	Measurement of the lifetimes of the $7p\ ^2P_{3/2}$ and $7p\ ^2P_{1/2}$ states of atomic cesium. Physical Review A, 2019, 100, .	2.5	5
41	All-Optical Processing with Dynamic Frequency Transformations. , 2019, , .		0
42	Effect of Pump Bandwidth on Measurements of Frequency-Bin Entanglement. , 2019, , .		0
43	Radio-Frequency Signal Processing Using Optical Frequency Combs. IEEE Photonics Technology Letters, 2019, 31, 1874-1877.	2.5	10
44	Superchannel engineering of microcombs for optical communications. Journal of the Optical Society of America B: Optical Physics, 2019, 36, 2013.	2.1	19
45	Quantum frequency combs and Hongâ€™Ouâ€™Mandel interferometry: the role of spectral phase coherence. Optics Express, 2019, 27, 38683.	3.4	20
46	Polarization diversity phase modulator for measuring frequency-bin entanglement of a biphoton frequency comb in a depolarized channel. Optics Letters, 2019, 44, 1674.	3.3	6
47	Dissipative cnoidal waves (Turing rolls) and the soliton limit in microring resonators. Optica, 2019, 6, 1220.	9.3	42
48	Rapid Wideband RF Subsampling and Disambiguation Using Dual Combs. , 2019, , .		6
49	Ultra-Broadband Photonic Monopulse-Like Radar for Remote Sensing. , 2019, , .		1
50	Bayesian machine learning of frequency-bin CNOT. , 2019, , .		0
51	Characterizing pump line phase offset of a single-soliton Kerr comb by dual comb interferometry. Optics Letters, 2019, 44, 1460.	3.3	3
52	Microcomb-Based True-Time-Delay Network for Microwave Beamforming With Arbitrary Beam Pattern Control. Journal of Lightwave Technology, 2018, 36, 2312-2321.	4.6	68
53	Electro-Optic Frequency Beam Splitters and Titters for High-Fidelity Photonic Quantum Information Processing. Physical Review Letters, 2018, 120, 030502.	7.8	126
54	Characterization of coherent quantum frequency combs using electro-optic phase modulation. Physical Review A, 2018, 97, .	2.5	35

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55	Micro-combs: A novel generation of optical sources. Physics Reports, 2018, 729, 1-81.	25.6	448
56	Kerr Combs for Single-Span Long-Haul Analog Optical Links. , 2018, , .		2
57	Observation of Breathing Dark Pulses in Normal Dispersion Optical Microresonators. Physical Review Letters, 2018, 121, 257401.	7.8	23
58	Space-time focusing in a highly multimode fiber via optical pulse shaping. Optics Letters, 2018, 43, 4675.	3.3	8
59	Microresonator Frequency Combs for Integrated Microwave Photonics. IEEE Photonics Technology Letters, 2018, 30, 1814-1817.	2.5	12
60	Roadmap on transformation optics. Journal of Optics (United Kingdom), 2018, 20, 063001.	2.2	64
61	Measurement of the lifetime of the 7sS1/22 state in atomic cesium using asynchronous gated detection. Physical Review A, 2018, 97, .	2.5	6
62	Frequency-domain Hong-Ou-Mandel interference with linear optics. Optics Letters, 2018, 43, 2760.	3.3	40
63	50-GHz-spaced comb of high-dimensional frequency-bin entangled photons from an on-chip silicon nitride microresonator. Optics Express, 2018, 26, 1825.	3.4	134
64	High-order coherent communications using mode-locked dark-pulse Kerr combs from microresonators. Nature Communications, 2018, 9, 1598.	12.8	167
65	Superchannel Engineering with Microresonator Combs. , 2018, , .		2
66	Quantum interference and correlation control of frequency-bin qubits. Optica, 2018, 5, 1455.	9.3	88
67	Extremely Wide Bandwidth Microwave Photonic Phase Shifter for W-band Chirped Monopulse Radar. , 2018, , .		1
68	Heterogeneously Integrated InP Widely Tunable Laser and SiN Microring Resonator for Integrated Comb Generation. , 2018, , .		2
69	Stability of cnoidal wave frequency combs in microresonators. , 2018, , .		1
70	Second-harmonic-assisted four-wave mixing in chip-based microresonator frequency comb generation. Light: Science and Applications, 2017, 6, e16253-e16253.	16.6	83
71	High-speed switching of biphoton delays through electro-optic pump frequency modulation. APL Photonics, 2017, 2, 011301.	5.7	1
72	Microresonator Kerr frequency combs with high conversion efficiency. Laser and Photonics Reviews, 2017, 11, 1600276.	8.7	153

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73	Cavity solitons come of age. Nature Photonics, 2017, 11, 533-535.	31.4	25
74	Dispersion engineering and frequency comb generation in thin silicon nitride concentric microresonators. Nature Communications, 2017, 8, 372.	12.8	108
75	Long-haul coherent communications using microresonator-based frequency combs. Optics Express, 2017, 25, 26678.	3.4	40
76	Persistent energyâ€time entanglement covering multiple resonances of an on-chip biphoton frequency comb. Optica, 2017, 4, 655.	9.3	61
77	Spatial mode-interaction induced single soliton generation in microresonators. Optica, 2017, 4, 1011.	9.3	74
78	Soliton repetition rate in a silicon-nitride microresonator. Optics Letters, 2017, 42, 759.	3.3	37
79	Direct soliton generation in microresonators. Optics Letters, 2017, 42, 2519.	3.3	60
80	Integrated line-by-line optical pulse shaper for high-fidelity and rapidly reconfigurable RF-filtering. Optics Express, 2016, 24, 23925.	3.4	53
81	High-Q silicon nitride microresonators exhibiting low-power frequency comb initiation. Optica, 2016, 3, 1171.	9.3	148
82	Microwave photonics connected with microresonator frequency combs. Frontiers of Optoelectronics, 2016, 9, 238-248.	3.7	20
83	Observation of Fermi-Pasta-Ulam Recurrence Induced by Breather Solitons in an Optical Microresonator. Physical Review Letters, 2016, 117, 163901.	7.8	116
84	Rapidly Tunable Dual-Comb RF Photonic Filter for Ultrabroadband RF Spread Spectrum Applications. IEEE Transactions on Microwave Theory and Techniques, 2016, 64, 3351-3362.	4.6	23
85	Intracavity characterization of micro-comb generation in the single-soliton regime. Optics Express, 2016, 24, 10890.	3.4	101
86	Normal-dispersion microresonator Kerr frequency combs. Nanophotonics, 2016, 5, 244-262.	6.0	44
87	Recent Advances in Programmable Photonic-Assisted Ultrabroadband Radio-Frequency Arbitrary Waveform Generation. IEEE Journal of Quantum Electronics, 2016, 52, 1-17.	1.9	60
88	Experimental Characterization of Pump Power and Detuning in Microresonator Frequency Combs. , 2016, , .		1
89	Normalâ€dispersion microcombs enabled by controllable mode interactions. Laser and Photonics Reviews, 2015, 9, L23.	8.7	159
90	Nonreciprocal transmission through a silicon optical diode. , 2015, , .		0

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91	Reconfigurable radio-frequency arbitrary waveforms synthesized in a silicon photonic chip. Nature Communications, 2015, 6, 5957.	12.8	107
92	Deterministic single soliton generation and compression in microring resonators avoiding the chaotic region. Optics Express, 2015, 23, 9618.	3.4	44
93	Ultrabroadband radio-frequency arbitrary waveform generation with high-speed phase and amplitude modulation capability. Optics Express, 2015, 23, 12265.	3.4	18
94	Mode-locked dark pulse Kerr combs in normal-dispersion microresonators. Nature Photonics, 2015, 9, 594-600.	31.4	459
95	Investigation of mode coupling in normal-dispersion silicon nitride microresonators for Kerr frequency comb generation. Optica, 2014, 1, 137.	9.3	186
96	Photonic generation of W-band arbitrary waveforms with high time-bandwidth products enabling 39â€‰%â€‰mm range resolution. Optica, 2014, 1, 446.	9.3	101
97	Temporal cloaking for data suppression and retrieval. Optica, 2014, 1, 372.	9.3	30
98	Compression of ultra-long microwave pulses using programmable microwave photonic phase filtering with > 100 complex-coefficient taps. Optics Express, 2014, 22, 6329.	3.4	17
99	Generation of biphoton correlation trains through spectral filtering. Optics Express, 2014, 22, 9585.	3.4	17
100	Comb-Based RF Photonic Filters Based on Interferometric Configuration and Balanced Detection. Journal of Lightwave Technology, 2014, 32, 3478-3488.	4.6	16
101	Optical frequency comb technology for ultraâ€‰broadband radioâ€‰frequency photonics. Laser and Photonics Reviews, 2014, 8, 368-393.	8.7	327
102	Programmable Single-Bandpass Photonic RF Filter Based on Kerr Comb from a Microring. Journal of Lightwave Technology, 2014, 32, 3557-3565.	4.6	136
103	Photonic Synthesis of Spread Spectrum Radio Frequency Waveforms With Arbitrarily Long Time Apertures. Journal of Lightwave Technology, 2014, 32, 3580-3587.	4.6	35
104	Orthogonal Spectral Coding of Entangled Photons. Physical Review Letters, 2014, 112, 133602.	7.8	40
105	High-Power Broadly Tunable Electrooptic Frequency Comb Generator. IEEE Journal of Selected Topics in Quantum Electronics, 2013, 19, 231-236.	2.9	150
106	Ultra high optical nonreciprocity using silicon microring resonators. , 2013, , .		0
107	An all-silicon optical diode transmitting 10 Gbps data. , 2013, , .		0
108	Spatial coherent control. Nature Photonics, 2013, 7, 6-8.	31.4	7

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109	A temporal cloak at telecommunication data rate. Nature, 2013, 498, 205-208.	27.8	103
110	Drop-port study of microresonator frequency combs: power transfer, spectra and time-domain characterization. Optics Express, 2013, 21, 22441.	3.4	40
111	Photonic synthesis of high fidelity microwave arbitrary waveforms using near field frequency to time mapping. Optics Express, 2013, 21, 22974.	3.4	67
112	Phase compensation communication technique against time reversal for ultra-wideband channels. IET Communications, 2013, 7, 1287-1295.	2.2	13
113	Achieving the upper bound time-bandwidth product for radio-frequency arbitrary waveform generation. , 2013, , .		4
114	Experimental investigation of UWB MISO beamforming. , 2013, , .		1
115	Phase compensation technique for ultra wideband channels. , 2013, , .		0
116	Reply to Comment on "Generalized grating equation for virtually-imaged phased-array spectral dispersions" Applied Optics, 2012, 51, 8187.	1.8	7
117	Observation of correlation between route to formation, coherence, noise, and communication performance of Kerr combs. Optics Express, 2012, 20, 29284.	3.4	71
118	Nonreciprocal transmission of 10 Gbps OOK data through an all-silicon passive optical diode. , 2012, , 703-704.		0
119	Comb-based radiofrequency photonic filters with rapid tunability and high selectivity. Nature Photonics, 2012, 6, 186-194.	31.4	266
120	Multichannel Radio-Frequency Arbitrary Waveform Generation Based on Multiwavelength Comb Switching and 2-D Line-by-Line Pulse Shaping. IEEE Photonics Technology Letters, 2012, 24, 891-893.	2.5	26
121	Comparative study of noise performance of microwave photonic filters based on coherent and incoherent multi-wavelength light sources. , 2012, , .		0
122	Directly Generated Gaussian-Shaped Optical Frequency Comb for Microwave Photonic Filtering and Picosecond Pulse Generation. IEEE Photonics Technology Letters, 2012, 24, 1484-1486.	2.5	35
123	Experimental Test-Bed for Studying Multiple Antenna Beamforming over Ultra Wideband Channels up to 12 GHz. IEEE Wireless Communications Letters, 2012, 1, 520-523.	5.0	4
124	Noise Comparison of RF Photonic Filters Based on Coherent and Incoherent Multiwavelength Sources. IEEE Photonics Technology Letters, 2012, 24, 1236-1238.	2.5	16
125	High-fidelity microwave photonic filtering using optical frequency combs. , 2012, , .		0
126	Experimental Investigation of UWB Impulse Response and Time Reversal Technique Up to 12 GHz: Omnidirectional and Directional Antennas. IEEE Transactions on Antennas and Propagation, 2012, 60, 3407-3415.	5.1	28

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127	A Silicon Optical Transistor. , 2012, 2012, .		5
128	40 dB Optical Nonreciprocal Transmission on a Silicon Chip. , 2012, , .		0
129	Reconfigurable and Tunable Flat-Top Microwave Photonic Filters Utilizing Optical Frequency Combs. IEEE Photonics Technology Letters, 2011, 23, 1618-1620.	2.5	88
130	Reconfigurable optical filter based on a phase-only liquid-crystal spatial light modulator. , 2011, , .		0
131	Experimental Study of UWB Impulse Response and Time Reversal Communication Technique up to 12 GHz. , 2011, , .		0
132	Spectral line-by-line pulse shaping of on-chip microresonator frequency combs. Nature Photonics, 2011, 5, 770-776.	31.4	402
133	Focusing through scattering media. Nature Photonics, 2011, 5, 332-334.	31.4	8
134	Ultrafast optical pulse shaping: A tutorial review. Optics Communications, 2011, 284, 3669-3692.	2.1	544
135	Coherent frequency-to-time mapping revisited: Breaking the Fraunhofer limit to achieve ultrabroad radio-frequency waveforms. , 2011, , .		0
136	Ultrabroad bandwidth signal generation based on frequency-to-time mapping in the temporal Fresnel regime. , 2011, , .		0
137	Ultrabroad-bandwidth arbitrary radiofrequency waveform generation with a silicon photonic chip-based spectral shaper. Nature Photonics, 2010, 4, 117-122.	31.4	335
138	Optical arbitrary waveform generation. Nature Photonics, 2010, 4, 760-766.	31.4	439
139	Flat-topped and Gaussian dual-shape optical frequency comb generator using only intensity and phase modulators. , 2010, , .		0
140	Tunable radio frequency photonic filter based on intensity modulation of optical combs. , 2010, , .		8
141	Tunable Programmable Microwave Photonic Filters Based on an Optical Frequency Comb. IEEE Transactions on Microwave Theory and Techniques, 2010, 58, 3269-3278.	4.6	195
142	Fast Characterization of Dispersion and Dispersion Slope of Optical Fiber Links Using Spectral Interferometry With Frequency Combs. IEEE Photonics Technology Letters, 2010, 22, 155-157.	2.5	9
143	Highly flat and stable optical frequency comb generation using intensity and phase modulators employing quasi-quadratic phase modulation. , 2010, , .		1
144	On-chip programmable radio-frequency waveform generation. , 2010, , .		1

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145	Compensation of broadband antenna dispersion using optical pulse shaping. Digest / IEEE Antennas and Propagation Society International Symposium, 2009, , .	0.0	0
146	Post-Compensation of Ultra-Wideband Antenna Dispersion Using Microwave Photonic Phase Filters and Its Applications to UWB Systems. IEEE Transactions on Microwave Theory and Techniques, 2009, 57, 890-898.	4.6	21
147	Performance of asynchronous time-spreading and spectrally-coded OCDMA systems. , 2009, , .		0
148	Synthesis of Millimeter-Wave Power Spectra Using Time-Multiplexed Optical Pulse Shaping. IEEE Photonics Technology Letters, 2009, 21, 1287-1289.	2.5	17
149	Quantitative Study of Optical Frequency Noise to Intensity Noise Conversion in Line-by-Line Pulse Shaping. IEEE Journal of Quantum Electronics, 2009, 45, 661-673.	1.9	1
150	Dispersion Limitations of Ultra-Wideband Wireless Links and Their Compensation Via Photonically Enabled Arbitrary Waveform Generation. IEEE Transactions on Microwave Theory and Techniques, 2008, 56, 710-719.	4.6	30
151	Wideband Deterministic All-Order Polarization-Mode Dispersion Generation via Pulse Shaping. IEEE Photonics Technology Letters, 2008, 20, 159-161.	2.5	2
152	All-Order Polarization-Mode Dispersion (PMD) Compensation via Virtually Imaged Phased Array (VIPA)-Based Pulse Shaper. IEEE Photonics Technology Letters, 2008, 20, 545-547.	2.5	15
153	Phase-Only Matched Filtering of Ultrawideband Arbitrary Microwave Waveforms via Optical Pulse Shaping. Journal of Lightwave Technology, 2008, 26, 2355-2363.	4.6	26
154	Selective Correlation Detection of Photonically Generated Ultrawideband RF Signals. Journal of Lightwave Technology, 2008, 26, 2692-2699.	4.6	21
155	Performance of Asynchronous Time-Spreading and Spectrally Coded OCDMA Systems. Journal of Lightwave Technology, 2008, 26, 2873-2881.	4.6	12
156	Resolved frequency modes of a 1 GHz Ti:Sapphire laser for low repetition rate line-by-line pulse shaping. , 2008, , .		0
157	Photonically implemented ultrawideband RF matched filtering. , 2008, , .		0
158	Time-Multiplexed Photonically-Enabled Radio-Frequency Arbitrary Waveforms with 10-GHz Update Rate. , 2008, , .		0
159	Direct spectral phase retrieval of ultrashort pulses by double one-dimensional autocorrelation traces. , 2008, , .		0
160	Coherent phonon excitation and manipulation in bismuth using temporally shaped ultrafast pulses. , 2008, , .		0
161	Compression of ultra-wideband microwave arbitrary waveforms via optical pulse shaping. , 2008, , .		0
162	Hardware Correlation of Ultra-Wideband RF Signals Generated via Optical Pulse Shaping. , 2007, , .		2

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163	Photonicallly-Synthesized Waveforms to Combat Broadband Antenna Phase Distortions. , 2007, , .		2
164	Performance of Nonlinear Receivers in Asynchronous Spectral-Phase-Encoding Optical CDMA Systems. Journal of Lightwave Technology, 2007, 25, 2069-2080.	4.6	10
165	Advances in Spectral Optical Code-Division Multiple-Access Communications. IEEE Journal of Selected Topics in Quantum Electronics, 2007, 13, 1351-1369.	2.9	86
166	Spectral Line-by-Line Pulse Shaping on an Optical Frequency Comb Generator. IEEE Journal of Quantum Electronics, 2007, 43, 1163-1174.	1.9	74
167	Multichannel Differential Group Delay Emulation and Compensation via a Phase Pulse Shaper. IEEE Photonics Technology Letters, 2007, 19, 1203-1205.	2.5	2
168	Optical arbitrary waveform processing of more than 100 spectral comb lines. Nature Photonics, 2007, 1, 463-467.	31.4	449
169	Electromagnetic Pulse Shaping and Applications. , 2007, , .		0
170	Shaping the Power Spectrum of Ultra-Wideband Radio-Frequency Signals. IEEE Transactions on Microwave Theory and Techniques, 2006, 54, 4247-4255.	4.6	72
171	A Complete Spectral Polarimeter Design for Lightwave Communication Systems. Journal of Lightwave Technology, 2006, 24, 3982-3991.	4.6	27
172	PMD Tolerance Testing of a Commercial Communication System Using a Spectral Polarimeter. Journal of Lightwave Technology, 2006, 24, 4120-4126.	4.6	3
173	Experimental Investigation of Security Issues in O-CDMA. Journal of Lightwave Technology, 2006, 24, 4228-4234.	4.6	59
174	Coherent photonic processing of microwave signals using spatial light modulators. , 2006, , .		0
175	Mitigation of the dispersive phase response of radio-frequency antennae via optical pulse shaping. , 2006, , .		0
176	Coherent control of two-photon induced photocurrents in semiconductors with frequency-dependent response. , 2006, , .		0
177	Ultrafast double-pulse ablation of fused silica. Applied Physics Letters, 2005, 86, 151110.	3.3	68
178	Induced transient birefringence of a resonantly pumped molecular gas. Journal of Chemical Physics, 1996, 105, 6200-6215.	3.0	1