

# Andrew M Weiner

## List of Publications by Year in Descending Order

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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

5,786  
citations

40  
h-index

74  
g-index

181  
ext. papers

8,079  
ext. citations

7.6  
avg, IF

6.24  
L-index

#	Paper	IF	Citations
126	Temporal modulation of a spectral compressor for efficient quantum storage.. <i>Optics Letters</i> , <b>2022</b> , 47, 1387-1390	3	0
125	High-dimensional discrete Fourier transform gates with a quantum frequency processor.. <i>Optics Express</i> , <b>2022</b> , 30, 10126-10134	3.3	1
124	Reconfigurable Quantum Local Area Network Over Deployed Fiber. <i>PRX Quantum</i> , <b>2021</b> , 2,	6.1	9
123	W-Band Photonic Pulse Compression Radar With Dual Transmission Mode Beamforming. <i>Journal of Lightwave Technology</i> , <b>2021</b> , 39, 1619-1628	4	1
122	Adaptive bandwidth management for entanglement distribution in quantum networks. <i>Optica</i> , <b>2021</b> , 8, 329	8.6	6
121	Switching dynamics of dark-pulse Kerr frequency comb states in optical microresonators. <i>Physical Review A</i> , <b>2021</b> , 103,	2.6	9
120	InP high power monolithically integrated widely tunable laser and SOA array for hybrid integration. <i>Optics Express</i> , <b>2021</b> , 29, 3490-3502	3.3	0
119	Development of Quantum Interconnects (QulCs) for Next-Generation Information Technologies. <i>PRX Quantum</i> , <b>2021</b> , 2,	6.1	46
118	All-Optical Frequency Processor for Networking Applications. <i>Journal of Lightwave Technology</i> , <b>2020</b> , 38, 1678-1687	4	5
117	Deterministic access of broadband frequency combs in microresonators using cnoidal waves in the soliton crystal limit. <i>Optics Express</i> , <b>2020</b> , 28, 36304-36315	3.3	3
116	Efficient compressive and Bayesian characterization of biphoton frequency spectra. <i>Optics Letters</i> , <b>2020</b> , 45, 2886-2889	3	2
115	Spectral compression using time-varying cavities. <i>Optics Letters</i> , <b>2020</b> , 45, 5688-5691	3	1
114	Agile frequency transformations for dense wavelength-multiplexed communications. <i>Optics Express</i> , <b>2020</b> , 28, 20379-20390	3.3	2
113	Probing quantum walks through coherent control of high-dimensionally entangled photons. <i>Science Advances</i> , <b>2020</b> , 6, eaba8066	14.3	5
112	Fully Arbitrary Control of Frequency-Bin Qubits. <i>Physical Review Letters</i> , <b>2020</b> , 125, 120503	7.4	9
111	Kerr Combs for Stimulated Brillouin Scattering Mitigation in Long-Haul Analog Optical Links. <i>Journal of Lightwave Technology</i> , <b>2019</b> , 37, 5773-5779	4	4
110	A controlled-NOT gate for frequency-bin qubits. <i>Npj Quantum Information</i> , <b>2019</b> , 5,	8.6	34

109	Simulations of subatomic many-body physics on a quantum frequency processor. <i>Physical Review A</i> , <b>2019</b> , 100,	2.6	37
108	High-dimensional optical quantum logic in large operational spaces. <i>Npj Quantum Information</i> , <b>2019</b> , 5,	8.6	46
107	Quantum Information Processing With Frequency-Comb Qudits. <i>IEEE Photonics Technology Letters</i> , <b>2019</b> , 31, 1858-1861	2.2	16
106	Superchannel engineering of microcombs for optical communications. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2019</b> , 36, 2013	1.7	11
105	Quantum frequency combs and Hong-Ou-Mandel interferometry: the role of spectral phase coherence. <i>Optics Express</i> , <b>2019</b> , 27, 38683-38697	3.3	7
104	Polarization diversity phase modulator for measuring frequency-bin entanglement of a biphoton frequency comb in a depolarized channel. <i>Optics Letters</i> , <b>2019</b> , 44, 1674-1677	3	2
103	Dissipative cnoidal waves (Turing rolls) and the soliton limit in microring resonators. <i>Optica</i> , <b>2019</b> , 6, 1228.6		18
102	Rapid Wideband RF Subsampling and Disambiguation Using Dual Combs <b>2019</b> ,		5
101	Ultra-Broadband Photonic Monopulse-Like Radar for Remote Sensing <b>2019</b> ,		1
100	Characterizing pump line phase offset of a single-soliton Kerr comb by dual comb interferometry. <i>Optics Letters</i> , <b>2019</b> , 44, 1460-1463	3	0
99	Quantum optical microcombs. <i>Nature Photonics</i> , <b>2019</b> , 13, 170-179	33.9	115
98	Radio-Frequency Signal Processing Using Optical Frequency Combs. <i>IEEE Photonics Technology Letters</i> , <b>2019</b> , 31, 1874-1877	2.2	5
97	. <i>Journal of Lightwave Technology</i> , <b>2018</b> , 36, 2312-2321	4	34
96	Electro-Optic Frequency Beam Splitters and Titters for High-Fidelity Photonic Quantum Information Processing. <i>Physical Review Letters</i> , <b>2018</b> , 120, 030502	7.4	68
95	Characterization of coherent quantum frequency combs using electro-optic phase modulation. <i>Physical Review A</i> , <b>2018</b> , 97,	2.6	11
94	Micro-combs: A novel generation of optical sources. <i>Physics Reports</i> , <b>2018</b> , 729, 1-81	27.7	205
93	Frequency-domain Hong-Ou-Mandel interference with linear optics. <i>Optics Letters</i> , <b>2018</b> , 43, 2760-2763	3	17
92	50-GHz-spaced comb of high-dimensional frequency-bin entangled photons from an on-chip silicon nitride microresonator. <i>Optics Express</i> , <b>2018</b> , 26, 1825-1840	3.3	61

91	High-order coherent communications using mode-locked dark-pulse Kerr combs from microresonators. <i>Nature Communications</i> , <b>2018</b> , 9, 1598	17.4	87
90	Superchannel Engineering with Microresonator Combs <b>2018</b> ,		2
89	Quantum interference and correlation control of frequency-bin qubits. <i>Optica</i> , <b>2018</b> , 5, 1455	8.6	42
88	Extremely Wide Bandwidth Microwave Photonic Phase Shifter for W-band Chirped Monopulse Radar <b>2018</b> ,		1
87	Kerr Combs for Single-Span Long-Haul Analog Optical Links <b>2018</b> ,		1
86	Observation of Breathing Dark Pulses in Normal Dispersion Optical Microresonators. <i>Physical Review Letters</i> , <b>2018</b> , 121, 257401	7.4	11
85	Space-time focusing in a highly multimode fiber via optical pulse shaping. <i>Optics Letters</i> , <b>2018</b> , 43, 4675-4678	4	
84	Microresonator Frequency Combs for Integrated Microwave Photonics. <i>IEEE Photonics Technology Letters</i> , <b>2018</b> , 30, 1814-1817	2.2	6
83	Roadmap on transformation optics. <i>Journal of Optics (United Kingdom)</i> , <b>2018</b> , 20, 063001	1.7	40
82	Measurement of the lifetime of the $7sS1/22$ state in atomic cesium using asynchronous gated detection. <i>Physical Review A</i> , <b>2018</b> , 97,	2.6	4
81	Second-harmonic-assisted four-wave mixing in chip-based microresonator frequency comb generation. <i>Light: Science and Applications</i> , <b>2017</b> , 6, e16253	16.7	62
80	High-speed switching of biphoton delays through electro-optic pump frequency modulation. <i>APL Photonics</i> , <b>2017</b> , 2, 011301	5.2	0
79	Microresonator Kerr frequency combs with high conversion efficiency. <i>Laser and Photonics Reviews</i> , <b>2017</b> , 11, 1600276	8.3	72
78	Soliton repetition rate in a silicon-nitride microresonator. <i>Optics Letters</i> , <b>2017</b> , 42, 759-762	3	19
77	Dispersion engineering and frequency comb generation in thin silicon nitride concentric microresonators. <i>Nature Communications</i> , <b>2017</b> , 8, 372	17.4	60
76	Long-haul coherent communications using microresonator-based frequency combs. <i>Optics Express</i> , <b>2017</b> , 25, 26678-26688	3.3	25
75	Persistent energy-time entanglement covering multiple resonances of an on-chip biphoton frequency comb. <i>Optica</i> , <b>2017</b> , 4, 655	8.6	39
74	Spatial mode-interaction induced single soliton generation in microresonators. <i>Optica</i> , <b>2017</b> , 4, 1011	8.6	45

73	Direct soliton generation in microresonators. <i>Optics Letters</i> , <b>2017</b> , 42, 2519-2522	3	28
72	Intracavity characterization of micro-comb generation in the single-soliton regime. <i>Optics Express</i> , <b>2016</b> , 24, 10890-7	3.3	71
71	Normal-dispersion microresonator Kerr frequency combs. <i>Nanophotonics</i> , <b>2016</b> , 5, 244-262	6.3	23
70	. <i>IEEE Journal of Quantum Electronics</i> , <b>2016</b> , 52, 1-17	2	34
69	Integrated line-by-line optical pulse shaper for high-fidelity and rapidly reconfigurable RF-filtering. <i>Optics Express</i> , <b>2016</b> , 24, 23925-23940	3.3	30
68	High-Q silicon nitride microresonators exhibiting low-power frequency comb initiation. <i>Optica</i> , <b>2016</b> , 3, 1171	8.6	97
67	Microwave photonics connected with microresonator frequency combs. <i>Frontiers of Optoelectronics</i> , <b>2016</b> , 9, 238-248	2.8	15
66	Observation of Fermi-Pasta-Ulam Recurrence Induced by Breather Solitons in an Optical Microresonator. <i>Physical Review Letters</i> , <b>2016</b> , 117, 163901	7.4	79
65	Rapidly Tunable Dual-Comb RF Photonic Filter for Ultrabroadband RF Spread Spectrum Applications. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2016</b> , 64, 3351-3362	4.1	14
64	Deterministic single soliton generation and compression in microring resonators avoiding the chaotic region. <i>Optics Express</i> , <b>2015</b> , 23, 9618-26	3.3	30
63	Ultrabroadband radio-frequency arbitrary waveform generation with high-speed phase and amplitude modulation capability. <i>Optics Express</i> , <b>2015</b> , 23, 12265-73	3.3	11
62	Mode-locked dark pulse Kerr combs in normal-dispersion microresonators. <i>Nature Photonics</i> , <b>2015</b> , 9, 594-600	33.9	262
61	Normal-dispersion microcombs enabled by controllable mode interactions. <i>Laser and Photonics Reviews</i> , <b>2015</b> , 9, L23-L28	8.3	84
60	Reconfigurable radio-frequency arbitrary waveforms synthesized in a silicon photonic chip. <i>Nature Communications</i> , <b>2015</b> , 6, 5957	17.4	73
59	Programmable Single-Bandpass Photonic RF Filter Based on Kerr Comb from a Microring. <i>Journal of Lightwave Technology</i> , <b>2014</b> , 32, 3557-3565	4	78
58	Photonic Synthesis of Spread Spectrum Radio Frequency Waveforms With Arbitrarily Long Time Apertures. <i>Journal of Lightwave Technology</i> , <b>2014</b> , 32, 3580-3587	4	24
57	Orthogonal spectral coding of entangled photons. <i>Physical Review Letters</i> , <b>2014</b> , 112, 133602	7.4	28
56	Investigation of mode coupling in normal-dispersion silicon nitride microresonators for Kerr frequency comb generation. <i>Optica</i> , <b>2014</b> , 1, 137	8.6	128

55	Photonic generation of W-band arbitrary waveforms with high time-bandwidth products enabling 39 mm range resolution. <i>Optica</i> , <b>2014</b> , 1, 446	8.6	69
54	Temporal cloaking for data suppression and retrieval. <i>Optica</i> , <b>2014</b> , 1, 372	8.6	25
53	Compression of ultra-long microwave pulses using programmable microwave photonic phase filtering with > 100 complex-coefficient taps. <i>Optics Express</i> , <b>2014</b> , 22, 6329-38	3.3	13
52	Generation of biphoton correlation trains through spectral filtering. <i>Optics Express</i> , <b>2014</b> , 22, 9585-96	3.3	9
51	. <i>Journal of Lightwave Technology</i> , <b>2014</b> , 32, 3478-3488	4	14
50	Optical frequency comb technology for ultra-broadband radio-frequency photonics. <i>Laser and Photonics Reviews</i> , <b>2014</b> , 8, 368-393	8.3	198
49	. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2013</b> , 19, 231-236	3.8	100
48	A temporal cloak at telecommunication data rate. <i>Nature</i> , <b>2013</b> , 498, 205-8	50.4	82
47	Drop-port study of microresonator frequency combs: power transfer, spectra and time-domain characterization. <i>Optics Express</i> , <b>2013</b> , 21, 22441-52	3.3	29
46	Photonic synthesis of high fidelity microwave arbitrary waveforms using near field frequency to time mapping. <i>Optics Express</i> , <b>2013</b> , 21, 22974-87	3.3	44
45	Phase compensation communication technique against time reversal for ultra-wideband channels. <i>IET Communications</i> , <b>2013</b> , 7, 1287-1295	1.3	10
44	Achieving the upper bound time-bandwidth product for radio-frequency arbitrary waveform generation <b>2013</b> ,		3
43	Experimental investigation of UWB MISO beamforming <b>2013</b> ,		1
42	Comb-based radiofrequency photonic filters with rapid tunability and high selectivity. <i>Nature Photonics</i> , <b>2012</b> , 6, 186-194	33.9	195
41	Multichannel Radio-Frequency Arbitrary Waveform Generation Based on Multiwavelength Comb Switching and 2-D Line-by-Line Pulse Shaping. <i>IEEE Photonics Technology Letters</i> , <b>2012</b> , 24, 891-893	2.2	24
40	Directly Generated Gaussian-Shaped Optical Frequency Comb for Microwave Photonic Filtering and Picosecond Pulse Generation. <i>IEEE Photonics Technology Letters</i> , <b>2012</b> , 24, 1484-1486	2.2	24
39	Experimental Test-Bed for Studying Multiple Antenna Beamforming over Ultra Wideband Channels up to 12 GHz. <i>IEEE Wireless Communications Letters</i> , <b>2012</b> , 1, 520-523	5.9	4
38	Noise Comparison of RF Photonic Filters Based on Coherent and Incoherent Multiwavelength Sources. <i>IEEE Photonics Technology Letters</i> , <b>2012</b> , 24, 1236-1238	2.2	12

37	Experimental Investigation of UWB Impulse Response and Time Reversal Technique Up to 12 GHz: Omnidirectional and Directional Antennas. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2012</b> , 60, 3407-3415	4.9	21
36	A Silicon Optical Transistor <b>2012</b> , 2012,		3
35	Reply to Comment on Generalized grating equation for virtually-imaged phased-array spectral dispersions <i>Applied Optics</i> , <b>2012</b> , 51, 8187	1.7	4
34	Observation of correlation between route to formation, coherence, noise, and communication performance of Kerr combs. <i>Optics Express</i> , <b>2012</b> , 20, 29284-95	3.3	52
33	Nonreciprocal Transmission of 10 Gbps OOK Data through an All-Silicon Passive Optical Diode <b>2012</b> , 703-704		
32	Spectral line-by-line pulse shaping of on-chip microresonator frequency combs. <i>Nature Photonics</i> , <b>2011</b> , 5, 770-776	33.9	292
31	Reconfigurable and Tunable Flat-Top Microwave Photonic Filters Utilizing Optical Frequency Combs. <i>IEEE Photonics Technology Letters</i> , <b>2011</b> , 23, 1618-1620	2.2	65
30	Ultrafast optical pulse shaping: A tutorial review. <i>Optics Communications</i> , <b>2011</b> , 284, 3669-3692	2	398
29	Ultrabroad-bandwidth arbitrary radiofrequency waveform generation with a silicon photonic chip-based spectral shaper. <i>Nature Photonics</i> , <b>2010</b> , 4, 117-122	33.9	247
28	Optical arbitrary waveform generation. <i>Nature Photonics</i> , <b>2010</b> , 4, 760-766	33.9	294
27	Tunable radio frequency photonic filter based on intensity modulation of optical combs <b>2010</b> ,		8
26	. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2010</b> , 58, 3269-3278	4.1	144
25	Fast Characterization of Dispersion and Dispersion Slope of Optical Fiber Links Using Spectral Interferometry With Frequency Combs. <i>IEEE Photonics Technology Letters</i> , <b>2010</b> , 22, 155-157	2.2	6
24	Post-Compensation of Ultra-Wideband Antenna Dispersion Using Microwave Photonic Phase Filters and Its Applications to UWB Systems. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2009</b> , 57, 890-898	4.1	18
23	Synthesis of Millimeter-Wave Power Spectra Using Time-Multiplexed Optical Pulse Shaping. <i>IEEE Photonics Technology Letters</i> , <b>2009</b> , 21, 1287-1289	2.2	13
22	Quantitative Study of Optical Frequency Noise to Intensity Noise Conversion in Line-by-Line Pulse Shaping. <i>IEEE Journal of Quantum Electronics</i> , <b>2009</b> , 45, 661-673	2	1
21	<b>2009</b> ,		191
20	Dispersion Limitations of Ultra-Wideband Wireless Links and Their Compensation Via Photonically Enabled Arbitrary Waveform Generation. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2008</b> , 56, 710-719	4.1	21

19	Wideband Deterministic All-Order Polarization-Mode Dispersion Generation via Pulse Shaping. <i>IEEE Photonics Technology Letters</i> , <b>2008</b> , 20, 159-161	2.2	2
18	All-Order Polarization-Mode Dispersion (PMD) Compensation via Virtually Imaged Phased Array (VIPA)-Based Pulse Shaper. <i>IEEE Photonics Technology Letters</i> , <b>2008</b> , 20, 545-547	2.2	10
17	Phase-Only Matched Filtering of Ultrawideband Arbitrary Microwave Waveforms via Optical Pulse Shaping. <i>Journal of Lightwave Technology</i> , <b>2008</b> , 26, 2355-2363	4	23
16	Selective Correlation Detection of Photonicallly Generated Ultrawideband RF Signals. <i>Journal of Lightwave Technology</i> , <b>2008</b> , 26, 2692-2699	4	20
15	Performance of Asynchronous Time-Spreading and Spectrally Coded OCDMA Systems. <i>Journal of Lightwave Technology</i> , <b>2008</b> , 26, 2873-2881	4	8
14	Multichannel Differential Group Delay Emulation and Compensation via a Phase Pulse Shaper. <i>IEEE Photonics Technology Letters</i> , <b>2007</b> , 19, 1203-1205	2.2	1
13	Optical arbitrary waveform processing of more than 100 spectral comb lines. <i>Nature Photonics</i> , <b>2007</b> , 1, 463-467	33.9	314
12	Hardware Correlation of Ultra-Wideband RF Signals Generated via Optical Pulse Shaping <b>2007</b> ,		1
11	Photonicallly-Synthesized Waveforms to Combat Broadband Antenna Phase Distortions <b>2007</b> ,		1
10	Performance of Nonlinear Receivers in Asynchronous Spectral-Phase-Encoding Optical CDMA Systems. <i>Journal of Lightwave Technology</i> , <b>2007</b> , 25, 2069-2080	4	8
9	Advances in Spectral Optical Code-Division Multiple-Access Communications. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2007</b> , 13, 1351-1369	3.8	62
8	Spectral Line-by-Line Pulse Shaping on an Optical Frequency Comb Generator. <i>IEEE Journal of Quantum Electronics</i> , <b>2007</b> , 43, 1163-1174	2	54
7	. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2006</b> , 54, 4247-4255	4.1	50
6	A Complete Spectral Polarimeter Design for Lightwave Communication Systems. <i>Journal of Lightwave Technology</i> , <b>2006</b> , 24, 3982-3991	4	20
5	PMD Tolerance Testing of a Commercial Communication System Using a Spectral Polarimeter. <i>Journal of Lightwave Technology</i> , <b>2006</b> , 24, 4120-4126	4	3
4	Experimental Investigation of Security Issues in O-CDMA. <i>Journal of Lightwave Technology</i> , <b>2006</b> , 24, 4228-4234	4	35
3	Ultrafast double-pulse ablation of fused silica. <i>Applied Physics Letters</i> , <b>2005</b> , 86, 151110	3.4	56
2	Induced transient birefringence of a resonantly pumped molecular gas. <i>Journal of Chemical Physics</i> , <b>1996</b> , 105, 6200-6215	3.9	1



1	Roadmap on integrated quantum photonics. <i>JPhys Photonics</i> ,	2.5	22
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