

Andrew M Weiner

List of Publications by Citations

Source: <https://exaly.com/author-pdf/3034409/andrew-m-weiner-publications-by-citations.pdf>

Version: 2024-04-20

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.

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	Ultrafast optical pulse shaping: A tutorial review. <i>Optics Communications</i> , 2011 , 284, 3669-3692	2	398
125	Optical arbitrary waveform processing of more than 100 spectral comb lines. <i>Nature Photonics</i> , 2007 , 1, 463-467	33.9	314
124	Optical arbitrary waveform generation. <i>Nature Photonics</i> , 2010 , 4, 760-766	33.9	294
123	Spectral line-by-line pulse shaping of on-chip microresonator frequency combs. <i>Nature Photonics</i> , 2011 , 5, 770-776	33.9	292
122	Mode-locked dark pulse Kerr combs in normal-dispersion microresonators. <i>Nature Photonics</i> , 2015 , 9, 594-600	33.9	262
121	Ultrabroad-bandwidth arbitrary radiofrequency waveform generation with a silicon photonic chip-based spectral shaper. <i>Nature Photonics</i> , 2010 , 4, 117-122	33.9	247
120	Micro-combs: A novel generation of optical sources. <i>Physics Reports</i> , 2018 , 729, 1-81	27.7	205
119	Optical frequency comb technology for ultra-broadband radio-frequency photonics. <i>Laser and Photonics Reviews</i> , 2014 , 8, 368-393	8.3	198
118	Comb-based radiofrequency photonic filters with rapid tunability and high selectivity. <i>Nature Photonics</i> , 2012 , 6, 186-194	33.9	195
117	2009 ,		191
116	. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2010 , 58, 3269-3278	4.1	144
115	Investigation of mode coupling in normal-dispersion silicon nitride microresonators for Kerr frequency comb generation. <i>Optica</i> , 2014 , 1, 137	8.6	128
114	Quantum optical microcombs. <i>Nature Photonics</i> , 2019 , 13, 170-179	33.9	115
113	. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2013 , 19, 231-236	3.8	100
112	High-Q silicon nitride microresonators exhibiting low-power frequency comb initiation. <i>Optica</i> , 2016 , 3, 1171	8.6	97
111	High-order coherent communications using mode-locked dark-pulse Kerr combs from microresonators. <i>Nature Communications</i> , 2018 , 9, 1598	17.4	87
110	Normal-dispersion microcombs enabled by controllable mode interactions. <i>Laser and Photonics Reviews</i> , 2015 , 9, L23-L28	8.3	84

109	A temporal cloak at telecommunication data rate. <i>Nature</i> , 2013 , 498, 205-8	50.4	82
108	Observation of Fermi-Pasta-Ulam Recurrence Induced by Breather Solitons in an Optical Microresonator. <i>Physical Review Letters</i> , 2016 , 117, 163901	7.4	79
107	Programmable Single-Bandpass Photonic RF Filter Based on Kerr Comb from a Microring. <i>Journal of Lightwave Technology</i> , 2014 , 32, 3557-3565	4	78
106	Reconfigurable radio-frequency arbitrary waveforms synthesized in a silicon photonic chip. <i>Nature Communications</i> , 2015 , 6, 5957	17.4	73
105	Microresonator Kerr frequency combs with high conversion efficiency. <i>Laser and Photonics Reviews</i> , 2017 , 11, 1600276	8.3	72
104	Intracavity characterization of micro-comb generation in the single-soliton regime. <i>Optics Express</i> , 2016 , 24, 10890-7	3.3	71
103	Photonic generation of W-band arbitrary waveforms with high time-bandwidth products enabling 39 mm range resolution. <i>Optica</i> , 2014 , 1, 446	8.6	69
102	Electro-Optic Frequency Beam Splitters and Titters for High-Fidelity Photonic Quantum Information Processing. <i>Physical Review Letters</i> , 2018 , 120, 030502	7.4	68
101	Reconfigurable and Tunable Flat-Top Microwave Photonic Filters Utilizing Optical Frequency Combs. <i>IEEE Photonics Technology Letters</i> , 2011 , 23, 1618-1620	2.2	65
100	Second-harmonic-assisted four-wave mixing in chip-based microresonator frequency comb generation. <i>Light: Science and Applications</i> , 2017 , 6, e16253	16.7	62
99	Advances in Spectral Optical Code-Division Multiple-Access Communications. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2007 , 13, 1351-1369	3.8	62
98	50-GHz-spaced comb of high-dimensional frequency-bin entangled photons from an on-chip silicon nitride microresonator. <i>Optics Express</i> , 2018 , 26, 1825-1840	3.3	61
97	Dispersion engineering and frequency comb generation in thin silicon nitride concentric microresonators. <i>Nature Communications</i> , 2017 , 8, 372	17.4	60
96	Ultrafast double-pulse ablation of fused silica. <i>Applied Physics Letters</i> , 2005 , 86, 151110	3.4	56
95	Spectral Line-by-Line Pulse Shaping on an Optical Frequency Comb Generator. <i>IEEE Journal of Quantum Electronics</i> , 2007 , 43, 1163-1174	2	54
94	Observation of correlation between route to formation, coherence, noise, and communication performance of Kerr combs. <i>Optics Express</i> , 2012 , 20, 29284-95	3.3	52
93	. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2006 , 54, 4247-4255	4.1	50
92	High-dimensional optical quantum logic in large operational spaces. <i>Npj Quantum Information</i> , 2019 , 5,	8.6	46

91	Development of Quantum Interconnects (QICs) for Next-Generation Information Technologies. <i>PRX Quantum</i> , 2021 , 2,	6.1	46
90	Spatial mode-interaction induced single soliton generation in microresonators. <i>Optica</i> , 2017 , 4, 1011	8.6	45
89	Photonic synthesis of high fidelity microwave arbitrary waveforms using near field frequency to time mapping. <i>Optics Express</i> , 2013 , 21, 22974-87	3.3	44
88	Quantum interference and correlation control of frequency-bin qubits. <i>Optica</i> , 2018 , 5, 1455	8.6	42
87	Roadmap on transformation optics. <i>Journal of Optics (United Kingdom)</i> , 2018 , 20, 063001	1.7	40
86	Persistent energy-time entanglement covering multiple resonances of an on-chip biphoton frequency comb. <i>Optica</i> , 2017 , 4, 655	8.6	39
85	Simulations of subatomic many-body physics on a quantum frequency processor. <i>Physical Review A</i> , 2019 , 100,	2.6	37
84	Experimental Investigation of Security Issues in O-CDMA. <i>Journal of Lightwave Technology</i> , 2006 , 24, 4228-4234	4	35
83	A controlled-NOT gate for frequency-bin qubits. <i>Npj Quantum Information</i> , 2019 , 5,	8.6	34
82	. <i>Journal of Lightwave Technology</i> , 2018 , 36, 2312-2321	4	34
81	. <i>IEEE Journal of Quantum Electronics</i> , 2016 , 52, 1-17	2	34
80	Deterministic single soliton generation and compression in microring resonators avoiding the chaotic region. <i>Optics Express</i> , 2015 , 23, 9618-26	3.3	30
79	Integrated line-by-line optical pulse shaper for high-fidelity and rapidly reconfigurable RF-filtering. <i>Optics Express</i> , 2016 , 24, 23925-23940	3.3	30
78	Drop-port study of microresonator frequency combs: power transfer, spectra and time-domain characterization. <i>Optics Express</i> , 2013 , 21, 22441-52	3.3	29
77	Orthogonal spectral coding of entangled photons. <i>Physical Review Letters</i> , 2014 , 112, 133602	7.4	28
76	Direct soliton generation in microresonators. <i>Optics Letters</i> , 2017 , 42, 2519-2522	3	28
75	Long-haul coherent communications using microresonator-based frequency combs. <i>Optics Express</i> , 2017 , 25, 26678-26688	3.3	25
74	Temporal cloaking for data suppression and retrieval. <i>Optica</i> , 2014 , 1, 372	8.6	25

73	Photonic Synthesis of Spread Spectrum Radio Frequency Waveforms With Arbitrarily Long Time Apertures. <i>Journal of Lightwave Technology</i> , 2014 , 32, 3580-3587	4	24
72	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> , 2012 , 24, 891-893	2.2	24
71	Directly Generated Gaussian-Shaped Optical Frequency Comb for Microwave Photonic Filtering and Picosecond Pulse Generation. <i>IEEE Photonics Technology Letters</i> , 2012 , 24, 1484-1486	2.2	24
70	Normal-dispersion microresonator Kerr frequency combs. <i>Nanophotonics</i> , 2016 , 5, 244-262	6.3	23
69	Phase-Only Matched Filtering of Ultrawideband Arbitrary Microwave Waveforms via Optical Pulse Shaping. <i>Journal of Lightwave Technology</i> , 2008 , 26, 2355-2363	4	23
68	Roadmap on integrated quantum photonics. <i>JPhys Photonics</i> ,	2.5	22
67	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> , 2012 , 60, 3407-3415	4.9	21
66	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> , 2008 , 56, 710-719	4.1	21
65	Selective Correlation Detection of Photonically Generated Ultrawideband RF Signals. <i>Journal of Lightwave Technology</i> , 2008 , 26, 2692-2699	4	20
64	A Complete Spectral Polarimeter Design for Lightwave Communication Systems. <i>Journal of Lightwave Technology</i> , 2006 , 24, 3982-3991	4	20
63	Soliton repetition rate in a silicon-nitride microresonator. <i>Optics Letters</i> , 2017 , 42, 759-762	3	19
62	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> , 2009 , 57, 890-898	4.1	18
61	Dissipative cnoidal waves (Turing rolls) and the soliton limit in microring resonators. <i>Optica</i> , 2019 , 6, 1228.6		18
60	Frequency-domain Hong-Ou-Mandel interference with linear optics. <i>Optics Letters</i> , 2018 , 43, 2760-2763	3	17
59	Quantum Information Processing With Frequency-Comb Qudits. <i>IEEE Photonics Technology Letters</i> , 2019 , 31, 1858-1861	2.2	16
58	Microwave photonics connected with microresonator frequency combs. <i>Frontiers of Optoelectronics</i> , 2016 , 9, 238-248	2.8	15
57	. <i>Journal of Lightwave Technology</i> , 2014 , 32, 3478-3488	4	14
56	Rapidly Tunable Dual-Comb RF Photonic Filter for Ultrabroadband RF Spread Spectrum Applications. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2016 , 64, 3351-3362	4.1	14

55	Compression of ultra-long microwave pulses using programmable microwave photonic phase filtering with > 100 complex-coefficient taps. <i>Optics Express</i> , 2014 , 22, 6329-38	3.3	13
54	Synthesis of Millimeter-Wave Power Spectra Using Time-Multiplexed Optical Pulse Shaping. <i>IEEE Photonics Technology Letters</i> , 2009 , 21, 1287-1289	2.2	13
53	Noise Comparison of RF Photonic Filters Based on Coherent and Incoherent Multiwavelength Sources. <i>IEEE Photonics Technology Letters</i> , 2012 , 24, 1236-1238	2.2	12
52	Ultrabroadband radio-frequency arbitrary waveform generation with high-speed phase and amplitude modulation capability. <i>Optics Express</i> , 2015 , 23, 12265-73	3.3	11
51	Characterization of coherent quantum frequency combs using electro-optic phase modulation. <i>Physical Review A</i> , 2018 , 97,	2.6	11
50	Superchannel engineering of microcombs for optical communications. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2019 , 36, 2013	1.7	11
49	Observation of Breathing Dark Pulses in Normal Dispersion Optical Microresonators. <i>Physical Review Letters</i> , 2018 , 121, 257401	7.4	11
48	Phase compensation communication technique against time reversal for ultra-wideband channels. <i>IET Communications</i> , 2013 , 7, 1287-1295	1.3	10
47	All-Order Polarization-Mode Dispersion (PMD) Compensation via Virtually Imaged Phased Array (VIPA)-Based Pulse Shaper. <i>IEEE Photonics Technology Letters</i> , 2008 , 20, 545-547	2.2	10
46	Generation of biphoton correlation trains through spectral filtering. <i>Optics Express</i> , 2014 , 22, 9585-96	3.3	9
45	Reconfigurable Quantum Local Area Network Over Deployed Fiber. <i>PRX Quantum</i> , 2021 , 2,	6.1	9
44	Fully Arbitrary Control of Frequency-Bin Qubits. <i>Physical Review Letters</i> , 2020 , 125, 120503	7.4	9
43	Switching dynamics of dark-pulse Kerr frequency comb states in optical microresonators. <i>Physical Review A</i> , 2021 , 103,	2.6	9
42	Tunable radio frequency photonic filter based on intensity modulation of optical combs 2010 ,		8
41	Performance of Asynchronous Time-Spreading and Spectrally Coded OCDMA Systems. <i>Journal of Lightwave Technology</i> , 2008 , 26, 2873-2881	4	8
40	Performance of Nonlinear Receivers in Asynchronous Spectral-Phase-Encoding Optical CDMA Systems. <i>Journal of Lightwave Technology</i> , 2007 , 25, 2069-2080	4	8
39	Quantum frequency combs and Hong-Ou-Mandel interferometry: the role of spectral phase coherence. <i>Optics Express</i> , 2019 , 27, 38683-38697	3.3	7
38	Fast Characterization of Dispersion and Dispersion Slope of Optical Fiber Links Using Spectral Interferometry With Frequency Combs. <i>IEEE Photonics Technology Letters</i> , 2010 , 22, 155-157	2.2	6

37	Adaptive bandwidth management for entanglement distribution in quantum networks. <i>Optica</i> , 2021 , 8, 329	8.6	6
36	Microresonator Frequency Combs for Integrated Microwave Photonics. <i>IEEE Photonics Technology Letters</i> , 2018 , 30, 1814-1817	2.2	6
35	All-Optical Frequency Processor for Networking Applications. <i>Journal of Lightwave Technology</i> , 2020 , 38, 1678-1687	4	5
34	Rapid Wideband RF Subsampling and Disambiguation Using Dual Combs 2019 ,		5
33	Probing quantum walks through coherent control of high-dimensionally entangled photons. <i>Science Advances</i> , 2020 , 6, eaba8066	14.3	5
32	Radio-Frequency Signal Processing Using Optical Frequency Combs. <i>IEEE Photonics Technology Letters</i> , 2019 , 31, 1874-1877	2.2	5
31	Kerr Combs for Stimulated Brillouin Scattering Mitigation in Long-Haul Analog Optical Links. <i>Journal of Lightwave Technology</i> , 2019 , 37, 5773-5779	4	4
30	Experimental Test-Bed for Studying Multiple Antenna Beamforming over Ultra Wideband Channels up to 12 GHz. <i>IEEE Wireless Communications Letters</i> , 2012 , 1, 520-523	5.9	4
29	Reply to Comment on "Generalized grating equation for virtually-imaged phased-array spectral dispersions" <i>Applied Optics</i> , 2012 , 51, 8187	1.7	4
28	Space-time focusing in a highly multimode fiber via optical pulse shaping. <i>Optics Letters</i> , 2018 , 43, 4675-4678	3	4
27	Measurement of the lifetime of the $7sS1/22$ state in atomic cesium using asynchronous gated detection. <i>Physical Review A</i> , 2018 , 97,	2.6	4
26	A Silicon Optical Transistor 2012 , 2012,		3
25	Achieving the upper bound time-bandwidth product for radio-frequency arbitrary waveform generation 2013 ,		3
24	PMD Tolerance Testing of a Commercial Communication System Using a Spectral Polarimeter. <i>Journal of Lightwave Technology</i> , 2006 , 24, 4120-4126	4	3
23	Deterministic access of broadband frequency combs in microresonators using cnoidal waves in the soliton crystal limit. <i>Optics Express</i> , 2020 , 28, 36304-36315	3.3	3
22	Superchannel Engineering with Microresonator Combs 2018 ,		2
21	Wideband Deterministic All-Order Polarization-Mode Dispersion Generation via Pulse Shaping. <i>IEEE Photonics Technology Letters</i> , 2008 , 20, 159-161	2.2	2
20	Efficient compressive and Bayesian characterization of biphoton frequency spectra. <i>Optics Letters</i> , 2020 , 45, 2886-2889	3	2

19	Polarization diversity phase modulator for measuring frequency-bin entanglement of a biphoton frequency comb in a depolarized channel. <i>Optics Letters</i> , 2019 , 44, 1674-1677	3	2
18	Agile frequency transformations for dense wavelength-multiplexed communications. <i>Optics Express</i> , 2020 , 28, 20379-20390	3.3	2
17	Experimental investigation of UWB MISO beamforming 2013 ,		1
16	Quantitative Study of Optical Frequency Noise to Intensity Noise Conversion in Line-by-Line Pulse Shaping. <i>IEEE Journal of Quantum Electronics</i> , 2009 , 45, 661-673	2	1
15	Multichannel Differential Group Delay Emulation and Compensation via a Phase Pulse Shaper. <i>IEEE Photonics Technology Letters</i> , 2007 , 19, 1203-1205	2.2	1
14	Hardware Correlation of Ultra-Wideband RF Signals Generated via Optical Pulse Shaping 2007 ,		1
13	Photonicallly-Synthesized Waveforms to Combat Broadband Antenna Phase Distortions 2007 ,		1
12	Induced transient birefringence of a resonantly pumped molecular gas. <i>Journal of Chemical Physics</i> , 1996 , 105, 6200-6215	3.9	1
11	Spectral compression using time-varying cavities. <i>Optics Letters</i> , 2020 , 45, 5688-5691	3	1
10	Extremely Wide Bandwidth Microwave Photonic Phase Shifter for W-band Chirped Monopulse Radar 2018 ,		1
9	Ultra-Broadband Photonic Monopulse-Like Radar for Remote Sensing 2019 ,		1
8	W-Band Photonic Pulse Compression Radar With Dual Transmission Mode Beamforming. <i>Journal of Lightwave Technology</i> , 2021 , 39, 1619-1628	4	1
7	Kerr Combs for Single-Span Long-Haul Analog Optical Links 2018 ,		1
6	High-dimensional discrete Fourier transform gates with a quantum frequency processor.. <i>Optics Express</i> , 2022 , 30, 10126-10134	3.3	1
5	High-speed switching of biphoton delays through electro-optic pump frequency modulation. <i>APL Photonics</i> , 2017 , 2, 011301	5.2	0
4	Temporal modulation of a spectral compressor for efficient quantum storage.. <i>Optics Letters</i> , 2022 , 47, 1387-1390	3	0
3	Characterizing pump line phase offset of a single-soliton Kerr comb by dual comb interferometry. <i>Optics Letters</i> , 2019 , 44, 1460-1463	3	0
2	InP high power monolithically integrated widely tunable laser and SOA array for hybrid integration. <i>Optics Express</i> , 2021 , 29, 3490-3502	3.3	0

- 1 Nonreciprocal Transmission of 10 Gbps OOK Data through an All-Silicon Passive Optical Diode **2012**, 703-704