

# Chen-Bin Huang

## List of Publications by Year in descending order

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93  
papers

2,068  
citations

304743

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233421

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95  
docs citations

95  
times ranked

1841  
citing authors

#	ARTICLE	IF	CITATIONS
1	Optical arbitrary waveform processing of more than 100 spectral comb lines. <i>Nature Photonics</i> , 2007, 1, 463-467.	31.4	449
2	Selective Trapping or Rotation of Isotropic Dielectric Microparticles by Optical Near Field in a Plasmonic Archimedes Spiral. <i>Nano Letters</i> , 2014, 14, 547-552.	9.1	195
3	Creating Optical Near-Field Orbital Angular Momentum in a Gold Metasurface. <i>Nano Letters</i> , 2015, 15, 2746-2750.	9.1	113
4	Plasmonic topological quasiparticle on the nanometre and femtosecond scales. <i>Nature</i> , 2020, 588, 616-619.	27.8	113
5	Millimeter-wave photonic wireless links for very high data rate communication. <i>NPG Asia Materials</i> , 2011, 3, 41-48.	7.9	83
6	Spectral Line-by-Line Pulse Shaping on an Optical Frequency Comb Generator. <i>IEEE Journal of Quantum Electronics</i> , 2007, 43, 1163-1174.	1.9	74
7	Time-multiplexed photonically enabled radio-frequency arbitrary waveform generation with 100 ps transitions. <i>Optics Letters</i> , 2007, 32, 3242.	3.3	65
8	Nonlinearly broadened phase-modulated continuous-wave laser frequency combs characterized using DPSK decoding. <i>Optics Express</i> , 2008, 16, 2520.	3.4	65
9	Photonic Generation and Wireless Transmission of Linearly/Nonlinearly Continuously Tunable Chirped Millimeter-Wave Waveforms With High Time-Bandwidth Product at W-Band. <i>IEEE Photonics Journal</i> , 2012, 4, 215-223.	2.0	59
10	Femtosecond pulse shaping in two dimensions: Towards higher complexity optical waveforms. <i>Optics Express</i> , 2008, 16, 11878.	3.4	54
11	Spectral Power Enhancement in a 100 GHz Photonic Millimeter-Wave Generator Enabled by Spectral Line-by-Line Pulse Shaping. <i>IEEE Photonics Journal</i> , 2010, 2, 719-727.	2.0	48
12	Dual-comb electric-field cross-correlation technique for optical arbitrary waveform characterization. <i>Optics Letters</i> , 2009, 34, 3875.	3.3	47
13	Spectral line-by-line shaping for optical and microwave arbitrary waveform generations. <i>Laser and Photonics Reviews</i> , 2008, 2, 227-248.	8.7	45
14	Multimode Plasmon Excitation and <i>In-Situ</i> Analysis in Top-Down Fabricated Nanocircuits. <i>Physical Review Letters</i> , 2013, 111, 183901.	7.8	42
15	Mode Conversion in High-Definition Plasmonic Optical Nanocircuits. <i>Nano Letters</i> , 2014, 14, 3881-3886.	9.1	36
16	High-rate femtosecond pulse generation via line-by-line processing of phase-modulated CW laser frequency comb. <i>Electronics Letters</i> , 2006, 42, 1114.	1.0	35
17	Generation and delivery of 1-ps optical pulses with ultrahigh repetition-rates over 25-km single mode fiber by a spectral line-by-line pulse shaper. <i>Optics Express</i> , 2010, 18, 24003.	3.4	34
18	Ultrafast microscopy of a twisted plasmonic spin skyrmion. <i>Applied Physics Reviews</i> , 2022, 9, .	11.3	33

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19	Loss-less pulse intensity repetition-rate multiplication using optical all-pass filtering. IEEE Photonics Technology Letters, 2000, 12, 167-169.	2.5	32
20	Deterministic Synthesis of Optical Vortices in Tailored Plasmonic Archimedes Spiral. IEEE Photonics Journal, 2013, 5, 4800409-4800409.	2.0	30
21	Wavelength-tunable spectral compression in a dispersion-increasing fiber. Optics Letters, 2011, 36, 2848.	3.3	28
22	A topological lattice of plasmonic merons. Applied Physics Reviews, 2021, 8, .	11.3	27
23	Spectral line-by-line pulse shaping for optical arbitrary pulse-train generation. Journal of the Optical Society of America B: Optical Physics, 2007, 24, 2124.	2.1	22
24	Direct observation of surface plasmon vortex and subwavelength focusing with arbitrarily-tailored intensity patterns. Applied Physics Letters, 2015, 106, .	3.3	22
25	Forty-photon-per-pulse spectral phase retrieval by shaper-assisted modified interferometric field autocorrelation. Optics Letters, 2011, 36, 2611.	3.3	21
26	Adiabatic pulse propagation in a dispersion-increasing fiber for spectral compression exceeding the fiber dispersion ratio limitation. Optics Letters, 2014, 39, 853.	3.3	21
27	Plasmonic mode converter for controlling optical impedance and nanoscale light-matter interaction. Optics Express, 2012, 20, 20342.	3.4	20
28	Ultrawide Color Gamut Perovskite and CdSe/ZnS Quantum-Dots-Based White Light-Emitting Diode with High Luminous Efficiency. Nanomaterials, 2019, 9, 1314.	4.1	20
29	CdSe/ZnS core-shell quantum dot assisted color conversion of violet laser diode for white lighting communication. Nanophotonics, 2019, 8, 2189-2201.	6.0	19
30	Modal Symmetry Controlled Second-Harmonic Generation by Propagating Plasmons. Nano Letters, 2019, 19, 6424-6428.	9.1	19
31	Synthesis of Millimeter-Wave Power Spectra Using Time-Multiplexed Optical Pulse Shaping. IEEE Photonics Technology Letters, 2009, 21, 1287-1289.	2.5	17
32	Photonic High-Power Continuous Wave THz-Wave Generation by Using Flip-Chip Packaged Uni-Travelling Carrier Photodiodes and a Femtosecond Optical Pulse Generator. Journal of Lightwave Technology, 2016, 34, 1387-1397.	4.6	17
33	Polarization line-by-line pulse shaping for the implementation of vectorial temporal Talbot effect. Optics Express, 2012, 20, 27062.	3.4	15
34	Ultrafast nanofemto photoemission electron microscopy of vectorial plasmonic fields. MRS Bulletin, 2021, 46, 738-746.	3.5	15
35	The impact of optical comb stability on waveforms generated via spectral line-by-line pulse shaping. Optics Express, 2006, 14, 13164.	3.4	14
36	Photonic Generation and Detection of W-Band Chirped Millimeter-Wave Pulses for Radar. IEEE Photonics Technology Letters, 2012, 24, 1437-1439.	2.5	14

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37	Direct spectral phase retrieval of ultrashort pulses by double modified one-dimensional autocorrelation traces. <i>Optics Express</i> , 2008, 16, 20617.	3.4	13
38	Polarization-Enabled Steering of Surface Plasmons Using Crossed Reciprocal Nanoantennas. <i>Laser and Photonics Reviews</i> , 2020, 14, 2000076.	8.7	13
39	Talbot effect on orbital angular momentum beams: azimuthal intensity repetition-rate multiplication. <i>Optics Letters</i> , 2018, 43, 4033.	3.3	11
40	A Polarization-Actuated Plasmonic Circulator. <i>Nano Letters</i> , 2020, 20, 7543-7549.	9.1	11
41	Analysis of time-multiplexed optical line-by-line pulse shaping: application for radio-frequency and microwave photonics. <i>Optics Express</i> , 2010, 18, 9366.	3.4	7
42	Subwavelength localization of near fields in coupled metallic spheres for single-emitter polarization analysis. <i>Optics Letters</i> , 2011, 36, 2339.	3.3	7
43	Photonic Generation of Few-Cycle Millimeter-Wave Pulse Using a Waveguide-Based Photonic-Transmitter-Mixer. <i>IEEE Photonics Journal</i> , 2012, 4, 1071-1079.	2.0	6
44	Noniterative data inversion of phase retrieval by omega oscillating filtering for optical arbitrary waveform measurement. <i>Optics Letters</i> , 2013, 38, 2011.	3.3	6
45	Photonic High-Power 160-GHz Signal Generation by Using Ultrafast Photodiode and a High-Repetition-Rate Femtosecond Optical Pulse Train Generator. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2014, 20, 10-16.	2.9	6
46	10Gb/s optical carrier distributed network with W-band (0.1THz) short-reach wireless communication system. <i>Optics Communications</i> , 2012, 285, 4307-4311.	2.1	5
47	Large-scale and structure-tunable laser spectral compression in an optical dispersion-increasing fiber. <i>Optics Express</i> , 2017, 25, 18024.	3.4	5
48	Broadband plasmonic half-subtractor and digital demultiplexer in pure parallel connections. <i>Nanophotonics</i> , 2022, 11, 3623-3629.	6.0	4
49	Self-referenced frequency comb measurement by using a polarization line-by-line pulse shaper. <i>Optics Letters</i> , 2014, 39, 1901.	3.3	3
50	Enhanced Performance of Narrowband Millimeter-Wave Generation Using Shaped-Pulse-Excited Photonic Transmitters. <i>IEEE Photonics Technology Letters</i> , 2011, 23, 902-904.	2.5	2
51	Investigation of temporal Talbot operation in a conventional optical tapped delay line structure. <i>Optics Express</i> , 2019, 27, 7922.	3.4	2
52	Numerical analysis of waveguide-enhanced optical bistability. <i>Optical and Quantum Electronics</i> , 2003, 35, 1357-1366.	3.3	1
53	5-GHz optical arbitrary waveform generation using > 100 independently controlled spectral lines from a compressed phase-modulated CW laser comb. <i>LEOS Summer Topical Meeting</i> , 2007, , .	0.0	1
54	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.	1.9	1

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55	Light Matter. ACS Symposium Series, 0, , 153-171.	0.5	1
56	Investigation of Impact of Optical Comb Stability on Optical Arbitrary Waveform Generation via Line-by-Line Pulse Shaping. , 2006, , .		0
57	Femtosecond Optical Pulse Generation using Line-by-Line Shaping on a Phase-Modulated CW Laser. , 2006, , .		0
58	DPSK Vulnerability and Counter-Measure in Code-Switched O-CDMA. Conference Proceedings - Lasers and Electro-Optics Society Annual Meeting-LEOS, 2007, , .	0.0	0
59	Spectral Line-by-Line Processing on an Optical Frequency Comb Generator. , 2007, , .		0
60	Coherence Examination of Nonlinearly Broadened Phase-Modulated CW Laser Frequency Combs using a DPSK Encoder/Decoder. Conference Proceedings - Lasers and Electro-Optics Society Annual Meeting-LEOS, 2007, , .	0.0	0
61	Time-Multiplexed Photonically-Enabled Radio-Frequency Arbitrary Waveforms with 10-GHz Update Rate. , 2008, , .		0
62	Spectral line-by-line pulse shaping of enhanced number of frequency comb lines using a 2-D VIPA grating pulse shaper. , 2008, , .		0
63	Self-referenced spectral phase retrieval of 28-attojoule ultrashort pulses by modified interferometric field autocorrelation measurement. , 2009, , .		0
64	Generation and delivery of 1-ps optical pulses over 20 km singlemode fiber using a spectral line-by-line pulse shaper. , 2010, , .		0
65	Ultrasensitive femtosecond pulse measurement by shaper-assisted modified interferometric field autocorrelation. , 2010, , .		0
66	Shaping the optical near-field vortex distribution in a plasmonic spiral. , 2011, , .		0
67	A plasmonic nanocluster designed for near-field polarization analysis. , 2011, , .		0
68	Highly efficient femtosecond pulse stretching by tailoring cavity dispersion in erbium fiber lasers with an intracavity short-pass edge filter. Optics Express, 2011, 19, 15879.	3.4	0
69	Generation of rational optical vortices in a plasmonic spiral. , 2011, , .		0
70	Adiabatic soliton spectral compression in a dispersion-increasing fiber. , 2011, , .		0
71	Spectral compression of an all-normal dispersion fiber laser. , 2013, , .		0
72	Polarization shaper-assisted dual-quadrature spectral shearing interferometry. , 2013, , .		0

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73	Plasmonic archimedes spiral for selective optical trapping and rotation of optically isotropic particles. Proceedings of SPIE, 2014, , .	0.8	0
74	Generation of surface plasmon vortex under linearly-polarized optical excitation in a gold metasurface. , 2014, , .		0
75	Laser Noise Improvement Through Pulse Nonlinear Propagation in a Dispersion-Increasing Fiber. , 2015, , .		0
76	Creating Surface Plasmon Orbital Angular Momentum in a Gold Metasurface. , 2015, , .		0
77	Ultrafast second-harmonic generations in a plasmonic two-wire transmission-line. , 2017, , .		0
78	Versatile Amplitude and Phase Filtering in an Optical Tapped Delay Line Structure. , 2019, , .		0
79	Multiple Selective Excitations of Localized Surface Plasmons in Coupled Gold Nano-Spheres. , 2011, , .		0
80	Generation and Delivery of 496-GHz Optical Pulse Train over 25-km Single-Mode Fiber using a Line-by-Line Optical Pulse Shaper. , 2011, , .		0
81	40-photon-per-pulse spectral phase retrieval by shaper-assisted modified interferometric field autocorrelation. , 2011, , .		0
82	Large-scale laser spectral compression using a true dispersion-increasing fiber. , 2012, , .		0
83	Polarization spectral line-by-line pulse shaping. , 2012, , .		0
84	Shaping the surface plasmon vortex in an Archimedes spiral through geometrical design. , 2012, , .		0
85	Non-iterative Data Inversion of Phase Retrieval by Omega Oscillating Filtering (PROOF). , 2013, , .		0
86	Synthesis of arbitrarily polarized optical waveforms using vectorial temporal Talbot effect. , 2013, , .		0
87	Self-referenced frequency comb measurement by a polarization line-by-line pulse shaper. , 2014, , .		0
88	Waveform-dependent laser spectral compression through pulse propagation in a dispersion-increasing fiber. , 2014, , .		0
89	Anomalous light bending with high efficiency by plasmonic phase-discontinuous air-slit array. , 2014, , .		0
90	Experimental observation of surface plasmon vortices with arbitrarily synthesized intensity patterns. , 2014, , .		0

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91	Dual-peaked Laser Spectral Compression Generated in a Dispersion-increasing Fiber. , 2015, , .		0
92	Self-imaging of Azimuthal Intensity Petal Based on Orbital Angular Momentum Beams. , 2018, , .		0
93	Interactions of spatially displaced surface plasmon vortices. , 2018, , .		0