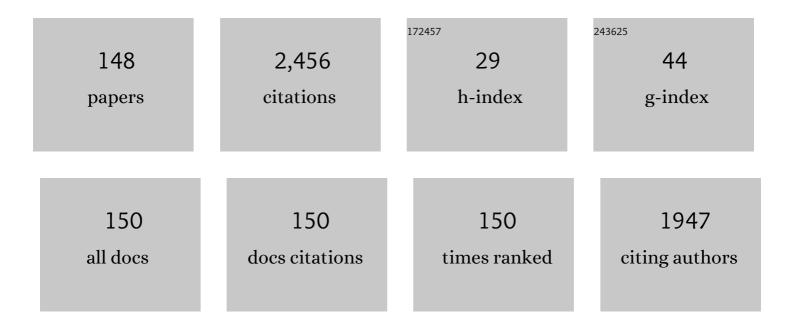
List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Electrically Tunable Critically Coupled Terahertz Metamaterial Absorber Based on Nematic Liquid Crystals. Physical Review Applied, 2015, 3, .	3.8	113
2	Guided-wave liquid-crystal photonics. Lab on A Chip, 2012, 12, 3598.	6.0	112
3	Nematic Liquid Crystal Optical Channel Waveguides on Silicon. IEEE Journal of Quantum Electronics, 2006, 42, 1084-1090.	1.9	79
4	Electrically tunable terahertz polarization converter based on overcoupled metal-isolator-metal metamaterials infiltrated with liquid crystals. Nanotechnology, 2017, 28, 124002.	2.6	74
5	Design of a very large chemical sensor system for mimicking biological olfaction. Sensors and Actuators B: Chemical, 2010, 146, 446-452.	7.8	73
6	Liquidâ€Crystal Highâ€Frequency Microwave Technology: Materials and Characterization. Advanced Materials Technologies, 2019, 4, 1800447.	5.8	73
7	Ultrahigh-quality factor resonant dielectric metasurfaces based on hollow nanocuboids. Optics Express, 2019, 27, 6320.	3.4	72
8	Tunable terahertz fishnet metamaterials based on thin nematic liquid crystal layers for fast switching. Scientific Reports, 2015, 5, 13137.	3.3	69
9	A Switchable Liquid-Crystal Optical Channel Waveguide on Silicon. IEEE Journal of Quantum Electronics, 2010, 46, 762-768.	1.9	66
10	Tunable integrated optical filter made of a glass ion-exchanged waveguide and an electro-optic composite holographic grating. Optics Express, 2008, 16, 9254.	3.4	64
11	Flexible terahertz wire grid polarizer with high extinction ratio and low loss. Optics Letters, 2016, 41, 2009.	3.3	61
12	Anapole Modes in Hollow Nanocuboid Dielectric Metasurfaces for Refractometric Sensing. Nanomaterials, 2019, 9, 30.	4.1	56
13	POLICRYPS: a liquid crystal composed nano/microstructure with a wide range of optical and electro-optical applications. Journal of Optics, 2009, 11, 024017.	1.5	55
14	Broad- and Narrow-Line Terahertz Filtering in Frequency-Selective Surfaces Patterned on Thin Low-Loss Polymer Substrates. IEEE Journal of Selected Topics in Quantum Electronics, 2017, 23, 1-8.	2.9	52
15	Systematic Design of THz Leaky-Wave Antennas Based on Homogenized Metasurfaces. IEEE Transactions on Antennas and Propagation, 2018, 66, 1169-1178.	5.1	46
16	Guided-mode resonant narrowband terahertz filtering by periodic metallic stripe and patch arrays on cyclo-olefin substrates. Scientific Reports, 2018, 8, 17272.	3.3	45
17	All-optical intensity modulation of near infrared light in a liquid crystal channel waveguide. Applied Physics Letters, 2010, 97, .	3.3	42
18	Hybrid Plasmonic Modulators and Filters Based on Electromagnetically Induced Transparency. IEEE Photonics Technology Letters, 2016, 28, 818-821.	2.5	42

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19	Transparent conducting oxide electro-optic modulators on silicon platforms: A comprehensive study based on the drift-diffusion semiconductor model. Journal of Applied Physics, 2017, 121, .	2.5	41
20	Tunable Beam Steering at Terahertz Frequencies Using Reconfigurable Metasurfaces Coupled With Liquid Crystals. IEEE Journal of Selected Topics in Quantum Electronics, 2020, 26, 1-9.	2.9	40
21	Guided lamb wave electroacoustic devices on micromachined AlN/Al plates. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2010, 57, 1175-1182.	3.0	38
22	Large-Scale Chemical Sensor Array Testing Biological Olfaction Concepts. IEEE Sensors Journal, 2012, 12, 3174-3183.	4.7	36
23	A biomimetic approach to machine olfaction, featuring a very large-scale chemical sensor array and embedded neuro-bio-inspired computation. Microsystem Technologies, 2014, 20, 729-742.	2.0	36
24	Evaluation of optical anisotropy in the pretransitional regime in antiferroelectric liquid crystals. Liquid Crystals, 1998, 25, 573-577.	2.2	34
25	Allâ€Dielectric Silicon Metasurface with Strong Subterahertz Toroidal Dipole Resonance. Advanced Optical Materials, 2019, 7, 1900777.	7.3	32
26	Long-range plasmonic directional coupler switches controlled by nematic liquid crystals. Optics Express, 2013, 21, 8240.	3.4	30
27	Electrically Tunable Metal–Semiconductor–Metal Terahertz Metasurface Modulators. IEEE Journal of Selected Topics in Quantum Electronics, 2019, 25, 1-8.	2.9	30
28	Hybrid electro-optic plasmonic modulators based on directional coupler switches. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	2.3	29
29	Toroidal metasurface resonances in microwave waveguides. Scientific Reports, 2019, 9, 7544.	3.3	29
30	Modelling, design and analysis of liquid crystal waveguides in preferentially etched silicon grooves. Journal Physics D: Applied Physics, 2009, 42, 045111.	2.8	28
31	Observation of tunable optical filtering in photosensitive composite structures containing liquid crystals. Optics Letters, 2011, 36, 4755.	3.3	28
32	Liquid-crystal-tunable metal–insulator–metal plasmonic waveguides and Bragg resonators. Journal of Optics (United Kingdom), 2013, 15, 055009.	2.2	28
33	Liquid–crystal tunable waveguides for integrated plasmonic components. Photonics and Nanostructures - Fundamentals and Applications, 2013, 11, 73-84.	2.0	26
34	Beam-splitter switches based on zenithal bistable liquid-crystal gratings. Physical Review E, 2014, 90, 042503.	2.1	26
35	Liquid-crystal tunable filter based on sapphire microspheres. Optics Letters, 2009, 34, 3253.	3.3	25
36	Characterisation of Photoalignment Materials for Photonic Applications at Visible and Infrared Wavelengths. Molecular Crystals and Liquid Crystals, 2005, 429, 227-235.	0.9	24

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37	A method for butt-coupling optical fibres to liquid crystal planar waveguides. Optical Materials, 2007, 29, 1019-1022.	3.6	24
38	Design of a vertically coupled liquid-crystal long-range plasmonic optical switch. Applied Physics Letters, 2013, 102, .	3.3	24
39	Plasmonic Variable Optical Attenuator Based on Liquid-Crystal Tunable Stripe Waveguides. Plasmonics, 2013, 8, 599-604.	3.4	24
40	Periodical Elements as Low-Cost Building Blocks for Tunable Terahertz Filters. IEEE Photonics Technology Letters, 2016, 28, 2459-2462.	2.5	24
41	Tunable one-dimensional photonic crystal slabs based on preferential etching of silicon-on-insulator. Optics Express, 2007, 15, 1832.	3.4	23
42	Polarization-Independent Nematic Liquid Crystal Waveguides for Optofluidic Applications. IEEE Photonics Technology Letters, 2015, 27, 1709-1712.	2.5	23
43	Angle-resolved and polarization-dependent investigation of cross-shaped frequency-selective surface terahertz filters. Applied Physics Letters, 2017, 110, .	3.3	23
44	Photonic devices based on preferential etching. Applied Optics, 2005, 44, 7181.	2.1	22
45	A Real-Time Exposure System for Electrophysiological Recording in Brain Slices. IEEE Transactions on Microwave Theory and Techniques, 2007, 55, 2463-2471.	4.6	22
46	Tunable Fabry–Perot Cavity THz Antenna Based on Leaky-Wave Propagation in Nematic Liquid Crystals. IEEE Antennas and Wireless Propagation Letters, 2017, 16, 2046-2049.	4.0	22
47	All-Optical and Thermal Tuning of a Bragg Grating Based on Photosensitive Composite Structures Containing Liquid Crystals. Molecular Crystals and Liquid Crystals, 2012, 558, 64-71.	0.9	21
48	Allâ€Dielectric Toroidal Metasurfaces for Angularâ€Dependent Resonant Polarization Beam Splitting. Advanced Optical Materials, 2021, 9, 2002143.	7.3	21
49	Integrated plasmonic refractometric sensor using Fano resonance. Journal Physics D: Applied Physics, 2017, 50, 055104.	2.8	20
50	Directional Emission of Fluorescent Dye-Doped Dielectric Nanogratings for Lighting Applications. ACS Applied Materials & Interfaces, 2018, 10, 24750-24757.	8.0	20
51	Design of Switchable Guided-Mode Resonant Filters in Zenithal-Bistable Liquid-Crystal Gratings. IEEE Photonics Technology Letters, 2017, 29, 1367-1370.	2.5	17
52	Tunable optical properties of silicon-on-insulator photonic crystal slab structures. Journal of the European Optical Society-Rapid Publications, 0, 4, .	1.9	16
53	Amplitude modulation in infrared metamaterial absorbers based on electro-optically tunable conducting oxides. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	2.3	16
54	Electro-optic modulators based on hybrid plasmonic micro-ring-disk resonators with femtojoule switching energy. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	2.3	15

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55	Fabrication and spectroscopic characterization of graphene transparent electrodes on flexible cyclo-olefin substrates for terahertz electro-optic applications. Nanotechnology, 2020, 31, 364006.	2.6	15
56	Low power hybrid plasmonic microring-on-disks electro-optical modulators. Journal of Nanophotonics, 2017, 11, 016014.	1.0	14
57	Guided mode resonance flat-top bandpass filter for terahertz telecom applications. Optics Letters, 2019, 44, 4239.	3.3	14
58	Time-domain modeling of dispersive and lossy liquid-crystals for terahertz applications. Optical Materials Express, 2014, 4, 449.	3.0	12
59	Quarter-wave plate metasurfaces on electromagnetically thin polyimide substrates. Applied Physics Letters, 2019, 115, .	3.3	12
60	Terahertz focusing properties of polymeric zone plates characterized by a modified knife-edge technique. Journal of the Optical Society of America B: Optical Physics, 2019, 36, D88.	2.1	12
61	Integration and Characterization of LC/Polymer Gratings on Glass and Silicon Platform. Molecular Crystals and Liquid Crystals, 2010, 516, 152-158.	0.9	11
62	Alignment of antiferroelectric liquid crystals for high contrast displays. Displays, 1999, 20, 185-190.	3.7	10
63	Study of Microplastics and Inorganic Contaminants in Mussels from the Montenegrin Coast, Adriatic Sea. Journal of Marine Science and Engineering, 2021, 9, 544.	2.6	10
64	Measurements of image sticking and hysteresis in SSFLC cells. Ferroelectrics, 1996, 178, 27-39.	0.6	9
65	Integrated optic devices using liquid crystals: design and fabrication issues. , 2004, , .		9
66	Integrated optics nano-opto-fluidic sensor based on whispering gallery modes for picoliter volume refractometry. Journal Physics D: Applied Physics, 2013, 46, 105104.	2.8	9
67	Realization of a Liquid Crystal Electrically Controlled Optical Waveguide on Micromachined Silicon. Molecular Crystals and Liquid Crystals, 2009, 500, 23-30.	0.9	8
68	Optical interrogation system based on holographic soft matter filter. Applied Physics Letters, 2011, 98, 151103.	3.3	8
69	Liquid crystal waveguide technologies for a new generation of low-power photonic integrated circuits. , 2015, , .		8
70	Biologically Inspired Computation for Chemical Sensing. Procedia Computer Science, 2011, 7, 226-227.	2.0	7
71	Integrated Optics Devices Based on Liquid Crystals. Molecular Crystals and Liquid Crystals, 2007, 465, 249-257.	0.9	6
72	Quasi-soliton propagation in dispersion-engineered silicon nanowires. Optics Communications, 2012, 285, 3306-3311.	2.1	6

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73	A switchable circular polarizer based on zenithal bistable liquid crystal gratings. Journal Physics D: Applied Physics, 2016, 49, 195104.	2.8	6
74	Low power compact hybrid plasmonic double microring electro-optical modulator. Proceedings of SPIE, 2016, , .	0.8	6
75	A reconfigurable multilayered THz leaky-wave antenna employing liquid crystals. , 2017, , .		6
76	Numerical and Experimental Time-Domain Characterization of Terahertz Conducting Polymers. IEEE Photonics Technology Letters, 2018, 30, 1579-1582.	2.5	6
77	Experimental demonstration of ultrathin broken-symmetry metasurfaces with controllably sharp resonant response. Applied Physics Letters, 2021, 119, 231601.	3.3	6
78	Reconfigurable beam-steerable leaky-wave antenna loaded with metamaterial apertures using liquid crystal-based delay lines. Optics Express, 2022, 30, 28966.	3.4	6
79	Influence of Charge Transfer Complex Doping of Polyamide Alignment Film on SSFLC Cell Performance. Molecular Crystals and Liquid Crystals, 1996, 290, 129-137.	0.3	5
80	Unstable states of antiferroelectric liquid crystal devices. Journal of Applied Physics, 2000, 87, 8433-8439.	2.5	5
81	Very Large Chemical Sensor Array for Mimicking Biological Olfaction. , 2009, , .		5
82	Liquid-Crystal Tunable Long-Range Surface Plasmon Polariton Directional Coupler. Molecular Crystals and Liquid Crystals, 2013, 573, 70-76.	0.9	5
83	High-Resolution Binary Zone Plate in Double-Sided Configuration for Terahertz Radiation Focusing. IEEE Photonics Technology Letters, 2019, 31, 117-120.	2.5	5
84	Terahertz polarizing component on cyclo-olefin polymer. Photonics Letters of Poland, 2017, 9, 2.	0.4	5
85	Terahertz characterization of graphene conductivity via time-domain reflection spectroscopy on metal-backed dielectric substrates. Journal Physics D: Applied Physics, 2022, 55, 365101.	2.8	5
86	Use of Ptfe Alignment Layers in Passive Addressed Ssflc Displays. Molecular Crystals and Liquid Crystals, 1997, 304, 357-362.	0.3	4
87	Homogeneous and heterogeneous switching in antiferroelectric liquid crystals. EPJ Applied Physics, 2000, 9, 247-252.	0.7	4
88	Influence of the Alignment Process on the Switching of High Contrast Antiferroelectric Liquid Crystal Displays. Molecular Crystals and Liquid Crystals, 2000, 351, 237-244.	0.3	4
89	All Optical Tunable Nematic Liquid Crystal Waveguide. Molecular Crystals and Liquid Crystals, 2012, 558, 204-208.	0.9	4
90	Geometrical and fluidic tuning of periodically modulated thin metal films. Photonics and Nanostructures - Fundamentals and Applications, 2012, 10, 177-182.	2.0	4

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91	An ADE-FDTD Formulation for the Study of Liquid-Crystal Components in the Terahertz Spectrum. Molecular Crystals and Liquid Crystals, 2015, 619, 49-60.	0.9	4
92	Tunable terahertz metamaterials based on nematic liquid crystals. , 2016, , .		4
93	Title is missing!. Journal Physics D: Applied Physics, 1999, 32, 2241-2245.	2.8	3
94	Passive matrix SSFLC display with analogue grey levels using PTFE alignment films. Displays, 1999, 20, 191-197.	3.7	3
95	Integrated Optics Using Smectic and Nematic Liquid Crystals. Ferroelectrics, 2006, 344, 247-254.	0.6	3
96	All-Optical Liquid Crystal Waveguide on Silicon. Molecular Crystals and Liquid Crystals, 2011, 549, 100-105.	0.9	3
97	Plasmon resonance optical tuning based on photosensitive composite structures. Journal of the Optical Society of America B: Optical Physics, 2014, 31, 360.	2.1	3
98	Properties and Stability of Bismuth Doped Tin Oxide Thin Films Deposited on Various Types of Glass Substrates. Materials Research Society Symposia Proceedings, 1996, 424, 355.	0.1	2
99	The Pre-Transitional Effect in Antiferroelectric Liquid Crystals: a Comparison between Theory and Experiment. Molecular Crystals and Liquid Crystals, 1999, 328, 65-73.	0.3	2
100	High voltage multichannel wave form generator for liquid crystal research. Review of Scientific Instruments, 2000, 71, 563-566.	1.3	2
101	Theoretical Performance Analysis of an Integrated Optic Filter Made of Glass Waveguides and POLICRYPS Holographic Gratings. Molecular Crystals and Liquid Crystals, 2007, 465, 227-237.	0.9	2
102	Realization of an Optical Filter Using POLICRYPS Holographic Gratings on Glass Waveguides. Molecular Crystals and Liquid Crystals, 2008, 486, 31/[1073]-37/[1079].	0.9	2
103	Fiber Bragg grating interrogation system based on a novel integrated optical filter. , 2008, , .		2
104	Polymeric zone plates for THz focusing. , 2016, , .		2
105	Terahertz frequency-selective surface and guided-mode resonance filters. , 2017, , .		2
106	Towards an hydrogenated amorphous silicon phototransistor cellular neural network. , 0, , .		1
107	Performance of a passive matrix ferroelectric liquid crystal display with analog grey levels. , 0, , .		1
108	Video speed low total voltage matrix addressing technique for SSFLC displays. Ferroelectrics, 1998, 214, 27-34.	0.6	1

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109	Investigation of the apparently thresholdless behaviour in the high temperature range of an antiferroelectric liquid crystal mixture. Ferroelectrics, 2000, 246, 43-50.	0.6	1
110	Nematic liquid crystal channel waveguides embedded in SiO/sub 2//Si grooves. , 0, , .		1
111	Tunable one-dimensional photonic crystal slabs. , 2007, , .		1
112	Nonlinear switching of near infrared light in liquid crystal on silicon channel waveguides. Proceedings of SPIE, 2010, , .	0.8	1
113	Tunable integrated optical filters based on sapphire microspheres and liquid crystals. Proceedings of SPIE, 2010, , .	0.8	1
114	Liquid crystal waveguide devices. , 2011, , .		1
115	Biologically inspired large scale chemical sensor arrays and embedded data processing. Proceedings of SPIE, 2013, , .	0.8	1
116	Polarization independent optofluidic nematic liquid crystal channels. , 2014, , .		1
117	Electrically tunable solid-state terahertz metamaterial absorbers. , 2018, , .		1
118	Liquid Crystal Active Metasurface for Ultra-Selective Wavelength Switching. , 2019, , .		1
119	Matrix Addressing Waveforms for Grey Shades Ssflc Displays. Molecular Crystals and Liquid Crystals, 1997, 304, 363-370.	0.3	Ο
120	An investigation into the director structure in the electroclinic effect at the SA-SC* transition. Ferroelectrics, 2000, 244, 339-346.	0.6	0
121	P-72: Novel Hybrid Addressing Schemes for SSFLC Displays Operating at Reduced Total Voltage. Digest of Technical Papers SID International Symposium, 2001, 32, 830.	0.3	Ο
122	Surface Evanescent Field Characterisation of Antiferroelectric Liquid Crystals. Molecular Crystals and Liquid Crystals, 2001, 358, 263-274.	0.3	0
123	Versatile driving system for non-root-mean-square responding liquid crystal displays. IET Circuits, Devices and Systems, 2003, 150, 57.	0.6	Ο
124	Performance optimization of optical switches in ferroelectric liquid crystals and polymers operating at 1550 nm. , 2003, , .		0
125	Novel tuneable optical filter made of a polymer and liquid crystal holographic grating on glass waveguides. , 2007, , .		0
126	Low driving power integrated tuneable filter using composite holographic grating on glass waveguides. Conference Proceedings - Lasers and Electro-Optics Society Annual Meeting-LEOS, 2007, , .	0.0	0

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127	Electrooptical tuning of a ruby microsphere morphology dependent resonance in a liquid crystal medium. , 2009, , .		0
128	Optical modulation with a ruby microsphere in liquid crystal. , 2009, , .		0
129	Ruby microsphere and liquid cyrstal based tunable optical filter. , 2009, , .		0
130	All optical tunable nematic liquid crystal waveguide. , 2011, , .		0
131	Long-range plasmonic waveguides controlled by nematic liquid crystals. , 2012, , .		0
132	Liquid-crystal tunable plasmonic stripe directional coupler switches. Proceedings of SPIE, 2013, , .	0.8	0
133	Liquid-crystal tunable fishnet terahertz metamaterials. , 2014, , .		0
134	Mechanically tunable Bragg filters for terahertz applications. , 2016, , .		0
135	Terahertz polarizer on flexible and conformal substrate. , 2016, , .		0
136	Near infrared plasmonic sensor based on Fano resonance. Proceedings of SPIE, 2016, , .	0.8	0
137	Hybrid plamonic conductor-gap-silicon microring-on-disks electro-optic modulator. , 2017, , .		0
138	Switchable photonic components based on zenithal-bistable nematic liquid crystal gratings. , 2017, , .		0
139	Spatial Dispersion Analysis of Homogenized Metafurfaces for Terahertz Leaky-wave Antennas. , 2018, , .		0
140	Terahertz Modal Analysis of a Grounded Liquid-crystal Cell and Its Application as a Tunable Cavity Antenna. , 2019, , .		0
141	Terahertz filter with flat-top transmission response. , 2019, , .		0
142	All-Dielectric Metasurfaces with Toroidal Multipole Resonances at sub-THz. , 2019, , .		0
143	Microwave waveguides loaded with dielectric metasurfaces. , 2019, , .		0

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145	A Nonlinear Liquid Crystal Optical Waveguide on Silicon. , 2010, , .		Ο
146	Tunability of Plasmonic Devices. NATO Science for Peace and Security Series B: Physics and Biophysics, 2015, , 187-207.	0.3	0
147	Static and Tunable Devices for Terahertz Focusing and Beam Steering. NATO Science for Peace and Security Series B: Physics and Biophysics, 2018, , 453-455.	0.3	0
148	Ultra-high-Q dielectric metasurface for polarization conversion. , 2019, , .		0