

Dimitrios C Zografopoulos

List of Publications by Year in descending order

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123
papers

2,435
citations

172207

29
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243296

44
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126
all docs

126
docs citations

126
times ranked

1831
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrically Tunable Critically Coupled Terahertz Metamaterial Absorber Based on Nematic Liquid Crystals. <i>Physical Review Applied</i> , 2015, 3, .	1.5	113
2	Guided-wave liquid-crystal photonics. <i>Lab on A Chip</i> , 2012, 12, 3598.	3.1	112
3	Photonic crystal-liquid crystal fibers for single-polarization or high-birefringence guidance. <i>Optics Express</i> , 2006, 14, 914.	1.7	86
4	Recent Advances in Adaptive Liquid Crystal Lenses. <i>Crystals</i> , 2019, 9, 272.	1.0	82
5	Electrically tunable terahertz polarization converter based on overcoupled metal-isolator-metal metamaterials infiltrated with liquid crystals. <i>Nanotechnology</i> , 2017, 28, 124002.	1.3	74
6	Liquidâ€Crystal Highâ€Frequency Microwave Technology: Materials and Characterization. <i>Advanced Materials Technologies</i> , 2019, 4, 1800447.	3.0	73
7	Ultrahigh-quality factor resonant dielectric metasurfaces based on hollow nanocuboids. <i>Optics Express</i> , 2019, 27, 6320.	1.7	72
8	Tunable terahertz fishnet metamaterials based on thin nematic liquid crystal layers for fast switching. <i>Scientific Reports</i> , 2015, 5, 13137.	1.6	69
9	Strongly resonant silicon slot metasurfaces with symmetry-protected bound states in the continuum. <i>Optics Express</i> , 2021, 29, 10374.	1.7	67
10	Flexible terahertz wire grid polarizer with high extinction ratio and low loss. <i>Optics Letters</i> , 2016, 41, 2009.	1.7	61
11	Anapole Modes in Hollow Nanocuboid Dielectric Metasurfaces for Refractometric Sensing. <i>Nanomaterials</i> , 2019, 9, 30.	1.9	56
12	A Unified FDTD/PML Scheme Based on Critical Points for Accurate Studies of Plasmonic Structures. <i>Journal of Lightwave Technology</i> , 2013, 31, 2467-2476.	2.7	52
13	Broad- and Narrow-Line Terahertz Filtering in Frequency-Selective Surfaces Patterned on Thin Low-Loss Polymer Substrates. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2017, 23, 1-8.	1.9	52
14	Theoretical and experimental optical studies of cholesteric liquid crystal films with thermally induced pitch gradients. <i>Physical Review E</i> , 2006, 73, 061701.	0.8	50
15	Infiltrated Photonic Crystal Fibers for Sensing Applications. <i>Sensors</i> , 2018, 18, 4263.	2.1	49
16	Tunable highly birefringent bandgap-guiding liquid-crystal microstructured fibers. <i>Journal of Lightwave Technology</i> , 2006, 24, 3427-3432.	2.7	46
17	Systematic Design of THz Leaky-Wave Antennas Based on Homogenized Metasurfaces. <i>IEEE Transactions on Antennas and Propagation</i> , 2018, 66, 1169-1178.	3.1	46
18	Guided-mode resonant narrowband terahertz filtering by periodic metallic stripe and patch arrays on cyclo-olefin substrates. <i>Scientific Reports</i> , 2018, 8, 17272.	1.6	45

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19	Hybrid Plasmonic Modulators and Filters Based on Electromagnetically Induced Transparency. IEEE Photonics Technology Letters, 2016, 28, 818-821.	1.3	42
20	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, .	1.1	41
21	In-Line Polarization Controller Based on Liquid-Crystal Photonic Crystal Fibers. Journal of Lightwave Technology, 2011, 29, 2560-2569.	2.7	40
22	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.	1.9	40
23	Analogue of electromagnetically induced transparency in square slotted silicon metasurfaces supporting bound states in the continuum. Optics Express, 2022, 30, 4615.	1.7	34
24	Positive-negative tunable liquid crystal lenses based on a microstructured transmission line. Scientific Reports, 2020, 10, 10153.	1.6	33
25	All-Dielectric Silicon Metasurface with Strong Subterahertz Toroidal Dipole Resonance. Advanced Optical Materials, 2019, 7, 1900777.	3.6	32
26	Liquid crystal-based dielectric loaded surface plasmon polariton optical switches. Journal of Applied Physics, 2011, 110, 093102.	1.1	31
27	Long-range plasmonic directional coupler switches controlled by nematic liquid crystals. Optics Express, 2013, 21, 8240.	1.7	30
28	Electrically Tunable Metal-Semiconductor-Metal Terahertz Metasurface Modulators. IEEE Journal of Selected Topics in Quantum Electronics, 2019, 25, 1-8.	1.9	30
29	Tunable Polarization Properties of Hybrid-Guiding Liquid-Crystal Photonic Crystal Fibers. Journal of Lightwave Technology, 2009, 27, 773-779.	2.7	29
30	Hybrid electro-optic plasmonic modulators based on directional coupler switches. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	1.1	29
31	Toroidal metasurface resonances in microwave waveguides. Scientific Reports, 2019, 9, 7544.	1.6	29
32	Liquid-crystal-tunable metal-insulator-metal plasmonic waveguides and Bragg resonators. Journal of Optics (United Kingdom), 2013, 15, 055009.	1.0	28
33	Quasi-Dark Resonances in Silicon Metasurface for Refractometric Sensing and Tunable Notch Filtering. Journal of Lightwave Technology, 2021, 39, 6985-6993.	2.7	27
34	Liquid-crystal tunable waveguides for integrated plasmonic components. Photonics and Nanostructures - Fundamentals and Applications, 2013, 11, 73-84.	1.0	26
35	Beam-splitter switches based on zenithal bistable liquid-crystal gratings. Physical Review E, 2014, 90, 042503.	0.8	26
36	Design of a vertically coupled liquid-crystal long-range plasmonic optical switch. Applied Physics Letters, 2013, 102, .	1.5	24

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37	Plasmonic Variable Optical Attenuator Based on Liquid-Crystal Tunable Stripe Waveguides. <i>Plasmonics</i> , 2013, 8, 599-604.	1.8	24
38	Investigation of the Stability of ADE-FDTD Methods for Modified Lorentz Media. <i>IEEE Microwave and Wireless Components Letters</i> , 2014, 24, 659-661.	2.0	24
39	Periodical Elements as Low-Cost Building Blocks for Tunable Terahertz Filters. <i>IEEE Photonics Technology Letters</i> , 2016, 28, 2459-2462.	1.3	24
40	Tunable one-dimensional photonic crystal slabs based on preferential etching of silicon-on-insulator. <i>Optics Express</i> , 2007, 15, 1832.	1.7	23
41	Angle-resolved and polarization-dependent investigation of cross-shaped frequency-selective surface terahertz filters. <i>Applied Physics Letters</i> , 2017, 110, .	1.5	23
42	Tunable Fabry-Pérot Cavity THz Antenna Based on Leaky-Wave Propagation in Nematic Liquid Crystals. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2017, 16, 2046-2049.	2.4	22
43	Theoretical and experimental studies of hyperreflective polymer-network cholesteric liquid crystal structures with helicity inversion. <i>Optics Communications</i> , 2009, 282, 903-907.	1.0	21
44	All-Dielectric Toroidal Metasurfaces for Angular-Dependent Resonant Polarization Beam Splitting. <i>Advanced Optical Materials</i> , 2021, 9, 2002143.	3.6	21
45	Integrated plasmonic refractometric sensor using Fano resonance. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 055104.	1.3	20
46	Directional Emission of Fluorescent Dye-Doped Dielectric Nanogratings for Lighting Applications. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 24750-24757.	4.0	20
47	Multifunctional light beam control device by stimuli-responsive liquid crystal micro-grating structures. <i>Scientific Reports</i> , 2020, 10, 13806.	1.6	20
48	Dual-core photonic crystal fibers for tunable polarization mode dispersion compensation. <i>Optics Express</i> , 2011, 19, 21680.	1.7	18
49	Design of Switchable Guided-Mode Resonant Filters in Zenithal-Bistable Liquid-Crystal Gratings. <i>IEEE Photonics Technology Letters</i> , 2017, 29, 1367-1370.	1.3	17
50	Tunable optical properties of silicon-on-insulator photonic crystal slab structures. <i>Journal of the European Optical Society-Rapid Publications</i> , 0, 4, .	0.9	16
51	Amplitude modulation in infrared metamaterial absorbers based on electro-optically tunable conducting oxides. <i>Applied Physics A: Materials Science and Processing</i> , 2018, 124, 1.	1.1	16
52	Aspherical liquid crystal lenses based on a variable transmission electrode. <i>Optics Express</i> , 2022, 30, 12237.	1.7	16
53	Electro-optic modulators based on hybrid plasmonic micro-ring-disk resonators with femtojoule switching energy. <i>Applied Physics A: Materials Science and Processing</i> , 2016, 122, 1.	1.1	15
54	Fabrication and spectroscopic characterization of graphene transparent electrodes on flexible cyclo-olefin substrates for terahertz electro-optic applications. <i>Nanotechnology</i> , 2020, 31, 364006.	1.3	15

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55	Low power hybrid plasmonic microring-on-disks electro-optical modulators. Journal of Nanophotonics, 2017, 11, 016014.	0.4	14
56	Cylindrical and Powell Liquid Crystal Lenses With Positive-Negative Optical Power. IEEE Photonics Technology Letters, 2020, 32, 1057-1060.	1.3	14
57	Guided mode resonance flat-top bandpass filter for terahertz telecom applications. Optics Letters, 2019, 44, 4239.	1.7	14
58	An ADI-FDTD Formulation With Modified Lorentz Dispersion for the Study of Plasmonic Structures. IEEE Photonics Technology Letters, 2014, 26, 2267-2270.	1.3	13
59	All-Dielectric Metasurface Based on Complementary Split-Ring Resonators for Refractive Index Sensing. Photonics, 2022, 9, 130.	0.9	13
60	Efficient FDTD algorithms for dispersive Drude-critical points media based on bilinear z-transform. Electronics Letters, 2013, 49, 534-536.	0.5	12
61	Rigorous broadband investigation of liquid-crystal plasmonic structures using finite-difference time-domain dispersive-anisotropic models. Journal of the Optical Society of America B: Optical Physics, 2013, 30, 2722.	0.9	12
62	Time-domain modeling of dispersive and lossy liquid-crystals for terahertz applications. Optical Materials Express, 2014, 4, 449.	1.6	12
63	Quarter-wave plate metasurfaces on electromagnetically thin polyimide substrates. Applied Physics Letters, 2019, 115, .	1.5	12
64	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.	0.9	12
65	Dual-band electro-optic polarization switch based on dual-core liquid-crystal photonic crystal fibers. Applied Optics, 2013, 52, 6439.	0.9	11
66	Switchable beam steering with zenithal bistable liquid-crystal blazed gratings. Optics Letters, 2014, 39, 5842.	1.7	11
67	Engineering Aspheric Liquid Crystal Lenses by Using the Transmission Electrode Technique. Crystals, 2020, 10, 835.	1.0	10
68	Study of Microplastics and Inorganic Contaminants in Mussels from the Montenegrin Coast, Adriatic Sea. Journal of Marine Science and Engineering, 2021, 9, 544.	1.2	10
69	Modeling Plasmonic Structures Using LOD-FDTD Methods With Accurate Dispersion Models of Metals at Optical Wavelengths. Journal of Lightwave Technology, 2017, 35, 193-200.	2.7	8
70	Flat metasurfaces with square supercells of $2\lambda \times 2\lambda$ dielectric disk quadrumers: tailoring the fine structure of toroidal mode local field. Journal Physics D: Applied Physics, 2022, 55, 205104.	1.3	8
71	Tunable optical fiber polarization elements based on long-period gratings inscribed in birefringent microstructured fibers. Journal of the Optical Society of America B: Optical Physics, 2008, 25, 111.	0.9	7
72	One-Step Leapfrog ADI-FDTD Method Using the Complex-Conjugate Pole-Residue Pairs Dispersion Model. IEEE Microwave and Wireless Components Letters, 2018, 28, 1068-1070.	2.0	7

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73	Beam Steering Efficiency in Resonant Reflective Metasurfaces. IEEE Journal of Selected Topics in Quantum Electronics, 2021, 27, 1-8.	1.9	7
74	Quasi-soliton propagation in dispersion-engineered silicon nanowires. Optics Communications, 2012, 285, 3306-3311.	1.0	6
75	A switchable circular polarizer based on zenithal bistable liquid crystal gratings. Journal Physics D: Applied Physics, 2016, 49, 195104.	1.3	6
76	Time-domain numerical scheme based on low-order partial-fraction models for the broadband study of frequency-dispersive liquid crystals. Journal of the Optical Society of America B: Optical Physics, 2016, 33, 622.	0.9	6
77	Low power compact hybrid plasmonic double microring electro-optical modulator. Proceedings of SPIE, 2016, , .	0.8	6
78	A reconfigurable multilayered THz leaky-wave antenna employing liquid crystals. , 2017, , .		6
79	Numerical and Experimental Time-Domain Characterization of Terahertz Conducting Polymers. IEEE Photonics Technology Letters, 2018, 30, 1579-1582.	1.3	6
80	Experimental demonstration of ultrathin broken-symmetry metasurfaces with controllably sharp resonant response. Applied Physics Letters, 2021, 119, 231601.	1.5	6
81	Liquid-Crystal Tunable Long-Range Surface Plasmon Polariton Directional Coupler. Molecular Crystals and Liquid Crystals, 2013, 573, 70-76.	0.4	5
82	Transparent Nanoprobes in Integrated Plasmonic Circuits Based on Plasmonic Cloaking. Physical Review Applied, 2014, 2, .	1.5	5
83	High-Resolution Binary Zone Plate in Double-Sided Configuration for Terahertz Radiation Focusing. IEEE Photonics Technology Letters, 2019, 31, 117-120.	1.3	5
84	Terahertz polarizing component on cyclo-olefin polymer. Photonics Letters of Poland, 2017, 9, 2.	0.2	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.	1.3	5
86	An ADE-FDTD Formulation for the Study of Liquid-Crystal Components in the Terahertz Spectrum. Molecular Crystals and Liquid Crystals, 2015, 619, 49-60.	0.4	4
87	Tunable terahertz metamaterials based on nematic liquid crystals. , 2016, , .		4
88	Generalised 3D FDTD algorithm for the modeling of wave propagation in dispersive media. Electronics Letters, 2017, 53, 1242-1244.	0.5	4
89	Quasi-Soliton Pulse-Train Propagation in Dispersion-Managed Silicon Rib Waveguides. IEEE Photonics Technology Letters, 2013, 25, 724-727.	1.3	3
90	Time-Domain Studies of General Dispersive Anisotropic Media by the Complex-Conjugate Pole-Residue Pairs Model. Applied Sciences (Switzerland), 2021, 11, 3844.	1.3	3

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91	Authors' Reply to "On the Equivalence of the Stability of the D-E and J-E ADE-FDTD Schemes for Implementing the Modified Lorentz Dispersive Model" IEEE Microwave and Wireless Components Letters, 2015, 25, 489-489.	2.0	2
92	Polymeric zone plates for THz focusing. , 2016, , .		2
93	Terahertz frequency-selective surface and guided-mode resonance filters. , 2017, , .		2
94	Tunable one-dimensional photonic crystal slabs. , 2007, , .		1
95	Electrically tunable solid-state terahertz metamaterial absorbers. , 2018, , .		1
96	Liquid Crystal Active Metasurface for Ultra-Selective Wavelength Switching. , 2019, , .		1
97	Anapole States and Toroidal Multipole Excitations in Photonic Metastructures. , 2021, , 4-1-4-22.		1
98	Fourth-order Jameson-Schmidt-Turkel FDTD scheme for non-magnetised cold plasma. Electronics Letters, 2020, 56, 375-378.	0.5	1
99	Polarisation-maintaining and highly-birefringent liquid-crystal photonic crystal fibers. , 2006, , .		0
100	Polarization properties of liquid-crystal infiltrated photonic crystal fibers. , 2008, , .		0
101	Long-range plasmonic waveguides controlled by nematic liquid crystals. , 2012, , .		0
102	Soliton-like propagation in dispersion-managed silicon nanowaveguides. , 2013, , .		0
103	Liquid-crystal tunable plasmonic stripe directional coupler switches. Proceedings of SPIE, 2013, , .	0.8	0
104	Liquid-crystal tunable fishnet terahertz metamaterials. , 2014, , .		0
105	Improved propagation modeling in ultra-wideband indoor communication systems utilizing vector fitting technique of the dielectric properties of building materials. , 2016, , .		0
106	Mechanically tunable Bragg filters for terahertz applications. , 2016, , .		0
107	Terahertz polarizer on flexible and conformal substrate. , 2016, , .		0
108	Near infrared plasmonic sensor based on Fano resonance. Proceedings of SPIE, 2016, , .	0.8	0

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109	Hybrid plamonic conductor-gap-silicon microring-on-disks electro-optic modulator. , 2017, , .		0
110	Switchable photonic components based on zenithal-bistable nematic liquid crystal gratings. , 2017, , .		0
111	Terahertz Modulation by Schottky Junction in Metal-Semiconductor-Metal Microcavities. , 2019, , .		0
112	Terahertz Modal Analysis of a Grounded Liquid-crystal Cell and Its Application as a Tunable Cavity Antenna. , 2019, , .		0
113	Terahertz filter with flat-top transmission response. , 2019, , .		0
114	All-Dielectric Metasurfaces with Toroidal Multipole Resonances at sub-THz. , 2019, , .		0
115	Microwave waveguides loaded with dielectric metasurfaces. , 2019, , .		0
116	All-Dielectric Slot Metasurface with Ultra-High-Q resonances. , 2021, , .		0
117	Tunability of Plasmonic Devices. NATO Science for Peace and Security Series B: Physics and Biophysics, 2015, , 187-207.	0.2	0
118	Ultra-high-Q dielectric metasurface for polarization conversion. , 2019, , .		0
119	Electromagnetically induced transparency in square slotted dielectric metasurfaces supporting bound states in the continuum. , 2021, , .		0
120	Modeling of dispersive media in ADI-FDTD method with complex-conjugate pole residue pairs. Journal of the Optical Society of America B: Optical Physics, 0, , .	0.9	0
121	Refractive index sensing by all-dielectric metasurfaces supporting quasi-bound states in the continuum. , 2022, , .		0
122	Double electromagnetically induced transparency resonance in slotted metasurfaces supporting bound states in the continuum. , 2022, , .		0
123	Graphene Saturable Absorber Mirrors for Silicon Photonic Platforms. IEEE Photonics Journal, 2022, 14, 1-8.	1.0	0