

Janusz Parka

List of Publications by Year in descending order

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92
papers

960
citations

471371

17
h-index

501076

28
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93
all docs

93
docs citations

93
times ranked

670
citing authors

#	ARTICLE	IF	CITATIONS
1	Optical phase conjugation in dye-doped nematic liquid crystal. <i>Optics Communications</i> , 1998, 149, 89-95.	1.0	68
2	Terahertz characterization of tunable metamaterial based on electrically controlled nematic liquid crystal. <i>Applied Physics Letters</i> , 2014, 105, .	1.5	60
3	Surface-mediated light-controlled Friedericksz transition in a nematic liquid crystal cell. <i>Journal of Applied Physics</i> , 2001, 90, 5963-5967.	1.1	59
4	Dye-doped liquid crystal composite for real-time holography. <i>Journal of Optics</i> , 1996, 5, 799-809.	0.5	45
5	Graphene-based hyperbolic metamaterial as a switchable reflection modulator. <i>Optics Express</i> , 2020, 28, 6708.	1.7	40
6	Liquid crystals for photonic applications. <i>Optical Materials</i> , 2003, 21, 605-610.	1.7	39
7	Experimental study on terahertz metamaterial embedded in nematic liquid crystal. <i>Applied Physics Letters</i> , 2015, 106, 092905.	1.5	35
8	Dielectric properties of highly anisotropic nematic liquid crystals for tunable microwave components. <i>Applied Physics Letters</i> , 2013, 103, .	1.5	34
9	Self-induced nonlinear Zernike filter realized with optically addressed liquid crystal spatial light modulator. <i>Journal of Applied Physics</i> , 2002, 92, 5635-5641.	1.1	33
10	Thermally induced tunability of a terahertz metamaterial by using a specially designed nematic liquid crystal mixture. <i>Optics Express</i> , 2018, 26, 2443.	1.7	28
11	Microwave complex permittivity of voltage-tunable nematic liquid crystals measured in high resistivity silicon transducers. <i>Applied Physics Letters</i> , 2013, 102, .	1.5	26
12	Refractive indices and birefringence of hybrid liquid crystal - nanoparticles composite materials in the terahertz region. <i>AIP Advances</i> , 2015, 5, .	0.6	25
13	Dielectric Properties of Compounds Creating Dual-Frequency Nematic Liquid Crystals. <i>Acta Physica Polonica A</i> , 2013, 124, 940-945.	0.2	24
14	Holographic grating recording in large area photoconducting liquid crystal panels. <i>Synthetic Metals</i> , 2000, 109, 189-193.	2.1	22
15	Precise dielectric spectroscopy of a dual-frequency nematic mixture over a broad temperature range. <i>Liquid Crystals</i> , 2012, 39, 1237-1242.	0.9	22
16	Graphene-based tunable hyperbolic microcavity. <i>Scientific Reports</i> , 2021, 11, 74.	1.6	22
17	Terahertz properties of fluorinated liquid crystals. <i>Liquid Crystals</i> , 2013, 40, 1586-1590.	0.9	21
18	Electromagnetic simulations of tunable terahertz metamaterial infiltrated with highly birefringent nematic liquid crystal. <i>Liquid Crystals</i> , 2015, 42, 430-434.	0.9	19

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19	Tunable negative index metamaterial employing in-plane switching mode at terahertz frequencies. <i>Liquid Crystals</i> , 2012, 39, 827-831.	0.9	18
20	Mesomorphic and dielectric properties of esters useful for formulation of nematic mixtures for dual frequency addressing system. <i>Opto-electronics Review</i> , 2009, 17, .	2.4	17
21	On the real-time reconstruction of digital holograms displayed on photosensitive liquid crystal systems. <i>Optical Materials</i> , 2006, 28, 1389-1397.	1.7	16
22	Numerical analysis of THz metamaterial with high birefringence liquid crystal. <i>Liquid Crystals</i> , 2012, 39, 739-744.	0.9	16
23	Measurements of anisotropic complex permittivity of liquid crystals at microwave frequencies. <i>Journal of the European Ceramic Society</i> , 2007, 27, 2903-2905.	2.8	14
24	Spectral investigation of nematic liquid crystals with high optical anisotropy at THz frequency range. <i>Phase Transitions</i> , 2012, 85, 337-344.	0.6	14
25	Experimental study of thermally controlled metamaterial containing a liquid crystal layer at microwave frequencies. <i>Liquid Crystals</i> , 2011, 38, 743-747.	0.9	13
26	Spectral Properties of Nematic Liquid Crystal Mixtures Composed with Long and Short Molecules in THz Frequency Range. <i>Molecular Crystals and Liquid Crystals</i> , 2012, 561, 74-81.	0.4	12
27	Nematic Liquid Crystals as Media for Real-Time Holography. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 1999, 35, 317-325.	1.6	11
28	Surface-assisted optical storage in a nematic liquid crystal cell via photoinduced charge-density modulation. <i>Organic Electronics</i> , 2001, 2, 155-163.	1.4	11
29	Simulation of a tunable metamaterial with nematic liquid crystal layers. <i>Liquid Crystals</i> , 2011, 38, 377-379.	0.9	11
30	Spectral and photorefractive properties of nematic liquid crystals from the CHBT family in the terahertz range. <i>Liquid Crystals</i> , 2013, 40, 1089-1094.	0.9	11
31	Optical data storage in LC cells. <i>Opto-electronics Review</i> , 2006, 14, .	2.4	10
32	Tunable Liquid Crystalline Metamaterial Structure in GHz Range. <i>Molecular Crystals and Liquid Crystals</i> , 2011, 545, 91/[1315]-95/[1319].	0.4	10
33	Investigations of twist elastic constant K ₂₂ of new nematic liquid crystal materials using threshold IPS method. <i>Opto-electronics Review</i> , 2011, 19, .	2.4	9
34	Liquid Crystal Materials in THz Technologies. <i>Photonics Letters of Poland</i> , 2012, 4, .	0.2	9
35	Light-controlled helical pitch and dynamic gratings. <i>Opto-electronics Review</i> , 2009, 17, .	2.4	8
36	Electro-optical Kerr effect in the isotropic phase of the two antiferroelectric liquid crystal mixtures. <i>Phase Transitions</i> , 2010, 83, 432-439.	0.6	8

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37	Terahertz properties of liquid crystals doped with ferroelectric BaTiO ₃ nanoparticles. <i>Liquid Crystals</i> , 2017, 44, 1207-1215.	0.9	8
38	<title>Ordering of a.c. electric-field-induced domains in dye-doped nematics under photoexcitation</title>. , 2001, 4418, 54.		7
39	Effect of Optical Nonlinearity Dynamical Enhancement in Dye Doped Liquid Crystal Under A Electrical Field. <i>Molecular Crystals and Liquid Crystals</i> , 2002, 375, 269-280.	0.4	7
40	Properties of two-component nematic liquid crystal mixtures in the range of 0.3â€“3.0ÂˆTHz. <i>Liquid Crystals</i> , 2015, 42, 1243-1249.	0.9	7
41	Liquid Crystalline Compounds Based on 1,4-Disubstituted But-1-Yne. <i>Molecular Crystals and Liquid Crystals</i> , 1995, 260, 201-215.	0.3	6
42	Light driven optical switching of the surface stabilized antiferroelectric liquid crystals. <i>Optics and Lasers in Engineering</i> , 2011, 49, 1330-1334.	2.0	5
43	Photorefractive properties of new liquid crystals in the near-infrared range. <i>Liquid Crystals</i> , 2011, 38, 25-30.	0.9	5
44	Nematic liquid crystals in inverted microstrip structures. , 2013, , .		5
45	Investigations of dual-frequency nematic liquid crystals doped with dichroic dye. <i>Liquid Crystals</i> , 2019, 46, 1001-1012.	0.9	5
46	Holographic grating formation mechanism in dye-doped nematic liquid crystal thin layer under dc electric field. , 2000, 4147, 330.		4
47	PHOTOREFRACTIVE EFFECTS IN PURE MULTICOMPONENT ISOTHIOCYANATE LIQUID CRYSTALS UNDER LOW POWER ILLUMINATION. <i>Molecular Crystals and Liquid Crystals</i> , 2004, 413, 443-450.	0.4	4
48	Liquid crystal phase shifter for THz radiation with cholesteric liquid crystal. <i>Molecular Crystals and Liquid Crystals</i> , 2017, 657, 51-55.	0.4	4
49	0.3â€“10.0 THz spectra for chosen liquid crystal molecules â€“ simulation and physical properties. <i>Molecular Crystals and Liquid Crystals</i> , 2017, 657, 66-71.	0.4	4
50	Influence of nematic liquid crystal with dye and cell construction parameters on dynamic holographic grating formation. , 2000, 4147, 335.		3
51	Holographic movies projected onto nematic LC cells. , 2002, , .		3
52	Diffraction efficiency in dye-doped LC cells under low-frequency AC voltage. , 2002, 4759, 298.		3
53	Video rate holography in a liquid crystal-photoconducting polymer system. , 2004, , .		3
54	Holographic Recordings Using Bistable SmC* Structures. <i>Molecular Crystals and Liquid Crystals</i> , 2009, 502, 195-206.	0.4	3

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55	Silver-Gelatine Metal-Dielectric Composites Made From Developed X-Ray Films. IEEE Antennas and Wireless Propagation Letters, 2011, 10, 1602-1604.	2.4	3
56	<title>Liquid-crystal materials for STN effect</title>. , 1993, , .		2
57	Enhancement of photorefractive effect in nematic liquid crystals. , 2002, , .		2
58	Dynamic photorefractivity in nematic liquid crystal cells with photoconductive orienting layers. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2005, 98, 938-942.	0.2	2
59	Effect of space charge transport on dynamic photorefractivity. Proceedings of SPIE, 2007, , .	0.8	2
60	Polarization Difference Imaging System with LC Filter. Molecular Crystals and Liquid Crystals, 2008, 495, 51/[403]-59/[411].	0.4	2
61	Investigations of dynamic photorefractivity regime by optical polarizing microscopy. Opto-electronics Review, 2009, 17, .	2.4	2
62	Simulations of some physical parameters of homologous series of nBT and nCHBT at 0.3â€“20.0 THz. Liquid Crystals, 2019, 46, 1367-1372.	0.9	2
63	Anomalous resonance frequency shift in liquid crystal-loaded THz metamaterials. Nanophotonics, 2022, 11, 2341-2348.	2.9	2
64	LIQUID CRYSTAL PHOTOSENSITIVE CELLS AS A MEDIUM FOR REAL-TIME DIGITAL PROJECTED HOLOGRAMS. Molecular Crystals and Liquid Crystals, 2004, 413, 451-460.	0.4	1
65	<title>Liquid crystals with high photorefractive index and different cell construction solutions for optical light modulators</title>. , 2004, 5565, 321.		1
66	Index grating surface anchoring. , 2005, , .		1
67	Mechanisms of Re-writable Hologram Recordings in NLC Cells. Molecular Crystals and Liquid Crystals, 2008, 494, 309-319.	0.4	1
68	Simulation of tunable metamaterial with nematic liquid crystal layers. , 2012, , .		1
69	Large birefringence liquid crystal in terahertz range with temperature tuning. , 2013, , .		1
70	Liquid crystal materials with high birefringence for THz applications. , 2014, , .		1
71	Recollections of Professor Yuriy Reznikov. Journal of Molecular Liquids, 2018, 267, 11-28.	2.3	1
72	<title>Investigations of liquid-crystal display for car dashboards</title>. , 1993, , .		0

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73	<title>Multicomponent nematic mixtures for LCD manufactured from smectic A compounds</title>. , 1993, 1845, 463.		0
74	<title>Guest-host investigations for black-and-white displays</title>. , 1993, , .		0
75	<title>Dichroic dyes with optical activity</title>. , 1993, , .		0
76	<title>Liquid crystal optical fibers in hydrostatic pressure monitoring</title>. , 1997, 3189, 86.		0
77	Self-diffraction of light in twisted nematic liquid crystal. , 1998, 3318, 414.		0
78	<title>Phenylcyclohexanes containing ketogroup</title>. , 1998, 3319, 35.		0
79	Photorefractivity of dye-doped NLC layers and possibility of their application. , 2002, , .		0
80	LC display for Polish gliders PW-5 and PW-6. , 2002, 4759, 450.		0
81	Optically addressable hybrid: photoconducting polymer-liquid crystal panels. , 2003, , .		0
82	<title>Properties of photosensitive doped nematic and smectic liquid crystals and possibility of their applications</title>. , 2003, 5257, 137.		0
83	Surface charge screening and boundary conditions for high two-beam coupling gain in pure liquid crystals. , 2004, , .		0
84	Properties of optically addressed liquid crystal spatial light modulators studied by mach-zehnder interferometry. Macromolecular Symposia, 2004, 212, 435-440.	0.4	0
85	<title>Dynamic photorefractivity in nematic liquid crystal panels with photoconducting polymeric layers</title>. , 2004, , .		0
86	Influence of LC cell layers modifications on diffraction efficiency and the memory effect. , 2005, , .		0
87	One dimensional model of dye-doped nematic layer for holography. Opto-electronics Review, 2006, 14, .	2.4	0
88	Dynamic photorefractivity guided by single-pulse voltage. Crystallography Reports, 2008, 53, 302-307.	0.1	0
89	Polarization difference image analysis with LC filter. Opto-electronics Review, 2009, 17, .	2.4	0
90	10.1007/s11445-008-2020-4. , 2010, 53, 302.		0

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91	16th Topical Meeting on the Optics of liquid Crystals. Photonics Letters of Poland, 2015, 7, .	0.2	0
92	Experimental Verification of Single-€Type Electron Population in Indium Tin Oxide Layers. Physica Status Solidi - Rapid Research Letters, 0, , .	1.2	0