

Gaetano Assanto

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3865840/publications.pdf>

Version: 2024-02-01

443
papers

15,053
citations

20817

60
h-index

27406

106
g-index

458
all docs

458
docs citations

458
times ranked

4652
citing authors

#	ARTICLE	IF	CITATIONS
1	Discrete solitons in optics. Physics Reports, 2008, 463, 1-126.	25.6	990
2	Route to Nonlocality and Observation of Accessible Solitons. Physical Review Letters, 2003, 91, 073901.	7.8	529
3	Observation of Optical Spatial Solitons in a Highly Nonlocal Medium. Physical Review Letters, 2004, 92, 113902.	7.8	502
4	Nonlocal spatial soliton interactions in nematic liquid crystals. Optics Letters, 2002, 27, 1460.	3.3	392
5	Electrically assisted self-confinement and waveguiding in planar nematic liquid crystal cells. Applied Physics Letters, 2000, 77, 7-9.	3.3	365
6	Routing of anisotropic spatial solitons and modulational instability in liquid crystals. Nature, 2004, 432, 733-737.	27.8	350
7	All-optical diode in a periodically poled lithium niobate waveguide. Applied Physics Letters, 2001, 79, 314-316.	3.3	345
8	Large nonlinear phase shifts in second-order nonlinear-optical processes. Optics Letters, 1993, 18, 13.	3.3	296
9	Metal-semiconductor-metal near-infrared light detector based on epitaxial Ge/Si. Applied Physics Letters, 1998, 72, 3175-3177.	3.3	238
10	Nematicons. Physics Reports, 2012, 516, 147-208.	25.6	223
11	All-optical switching and logic gating with spatial solitons in liquid crystals. Applied Physics Letters, 2002, 81, 3335-3337.	3.3	217
12	Efficient high-speed near-infrared Ge photodetectors integrated on Si substrates. Applied Physics Letters, 2000, 76, 1231-1233.	3.3	215
13	Tunable refraction and reflection of self-confined light beams. Nature Physics, 2006, 2, 737-742.	16.7	200
14	Experimental observation of polarization instability in a birefringent optical fiber. Applied Physics Letters, 1986, 49, 1224-1226.	3.3	176
15	Spatial solitons in nematic liquid crystals. IEEE Journal of Quantum Electronics, 2003, 39, 13-21.	1.9	172
16	High performance germanium-on-silicon detectors for optical communications. Applied Physics Letters, 2002, 81, 586-588.	3.3	154
17	All-optical switching devices based on large nonlinear phase shifts from second harmonic generation. Applied Physics Letters, 1993, 62, 1323-1325.	3.3	147
18	Nematicons: Optical Spatial Solitons in Nematic Liquid Crystals. Optics and Photonics News, 2003, 14, 44.	0.5	141

#	ARTICLE	IF	CITATIONS
19	Doubly Resonant Bragg Solitons via Second-Harmonic Generation. <i>Physical Review Letters</i> , 1997, 78, 2341-2344.	7.8	128
20	Interplay between nonlocality and nonlinearity in nematic liquid crystals. <i>Optics Letters</i> , 2005, 30, 415.	3.3	124
21	Discrete propagation and spatial solitons in nematic liquid crystals. <i>Optics Letters</i> , 2004, 29, 1530.	3.3	117
22	Incoherent spatial solitary waves in nematic liquid crystals. <i>Optics Letters</i> , 2001, 26, 1791.	3.3	114
23	High-performance p-i-n Ge on Si photodetectors for the near infrared: from model to demonstration. <i>IEEE Transactions on Electron Devices</i> , 2001, 48, 1092-1096.	3.0	114
24	Ge-on-Si approaches to the detection of near-infrared light. <i>IEEE Journal of Quantum Electronics</i> , 1999, 35, 1843-1852.	1.9	111
25	Two-Color Vector Solitons In Nonlocal Media. <i>Physical Review Letters</i> , 2006, 97, 153903.	7.8	111
26	Efficient wavelength shifting over the erbium amplifier bandwidth via cascaded second order processes in lithium niobate waveguides. <i>Applied Physics Letters</i> , 1997, 71, 1020-1022.	3.3	108
27	All-optical diode based on second-harmonic generation in an asymmetric waveguide. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1999, 16, 267.	2.1	101
28	Spatial soliton all-optical logic gates. <i>IEEE Photonics Technology Letters</i> , 2006, 18, 1287-1289.	2.5	100
29	All-optical switching by spatial walkoff compensation and solitary-wave locking. <i>Applied Physics Letters</i> , 1996, 68, 1449-1451.	3.3	96
30	Optical modulational instability in a nonlocal medium. <i>Physical Review E</i> , 2003, 68, 025602.	2.1	96
31	Nematic liquid crystals: A suitable medium for self-confinement of coherent and incoherent light. <i>Physical Review E</i> , 2002, 65, 035603.	2.1	94
32	Guiding light via geometric phases. <i>Nature Photonics</i> , 2016, 10, 571-575.	31.4	94
33	All-optical modulation via nonlinear cascading in type II second-harmonic generation. <i>Applied Physics Letters</i> , 1995, 67, 2120-2122.	3.3	93
34	Phase-controlled transistor action by cascading of second-order nonlinearities in KTP. <i>Optics Letters</i> , 1994, 19, 1305.	3.3	89
35	Coherent interactions for all-optical signal processing via quadratic nonlinearities. <i>IEEE Journal of Quantum Electronics</i> , 1995, 31, 673-681.	1.9	88
36	Si based optoelectronics for communications. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2002, 89, 2-9.	3.5	87

#	ARTICLE	IF	CITATIONS
37	Accessible Light Bullets via Synergetic Nonlinearities. <i>Physical Review Letters</i> , 2009, 102, 203903.	7.8	85
38	Signal readdressing by steering of spatial solitons in bulk nematic liquid crystals. <i>Optics Letters</i> , 2001, 26, 1690.	3.3	84
39	Vortex Induction via Anisotropy Stabilized Light-Matter Interaction. <i>Physical Review Letters</i> , 2012, 109, 143901.	7.8	84
40	Discrete light propagation and self-trapping in liquid crystals. <i>Optics Express</i> , 2005, 13, 1808.	3.4	81
41	Propagation of spatial optical solitons in a dielectric with adjustable nonlinearity. <i>Physical Review A</i> , 2010, 82, .	2.5	81
42	Transverse dynamics of nematicons. <i>Optics Express</i> , 2004, 12, 6524.	3.4	80
43	Nematicons: self-localised beams in nematic liquid crystals. <i>Liquid Crystals</i> , 2009, 36, 1161-1172.	2.2	79
44	Prism coupling into ZnS waveguides: a classic example of a nonlinear coupler. <i>Optics Letters</i> , 1986, 11, 644.	3.3	78
45	Nonlinear Wave Propagation and Spatial Solitons in Nematic Liquid Crystals. <i>Journal of Nonlinear Optical Physics and Materials</i> , 2003, 12, 123-134.	1.8	76
46	Simple physics of quadratic spatial solitons. <i>Optics Express</i> , 2002, 10, 388.	3.4	75
47	Ge on Si p-i-n photodiodes operating at 10Gbit*s. <i>Applied Physics Letters</i> , 2006, 88, 101111.	3.3	75
48	Signal processing by opto-optical interactions between self-localized and free propagating beams in liquid crystals. <i>Applied Physics Letters</i> , 2005, 87, 261104.	3.3	73
49	Spatial solitons in nematic liquid crystals: from bulk to discrete. <i>Optics Express</i> , 2007, 15, 5248.	3.4	71
50	All-optical steering of soliton waveguides in dye-doped liquid crystals. <i>Applied Physics Letters</i> , 2008, 93, .	3.3	71
51	Germanium on Silicon for Near-Infrared Light Sensing. <i>IEEE Photonics Journal</i> , 2009, 1, 69-79.	2.0	71
52	Nonlinear bouncing of nonlocal spatial solitons at the boundaries. <i>Optics Letters</i> , 2007, 32, 2795.	3.3	70
53	Propagation of optical spatial solitons in finite-size media: interplay between nonlocality and boundary conditions. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2007, 24, 2314.	2.1	70
54	Low Dark-Current Germanium-on-Silicon Near-Infrared Detectors. <i>IEEE Photonics Technology Letters</i> , 2007, 19, 1813-1815.	2.5	68

#	ARTICLE	IF	CITATIONS
55	Bistability and switching in nonlinear prism coupling. <i>Applied Physics Letters</i> , 1988, 52, 869-871.	3.3	67
56	Soliton gating and switching in liquid crystal light valve. <i>Applied Physics Letters</i> , 2010, 96, .	3.3	66
57	Nonlinear prism coupling with nonlocality. <i>Optics Letters</i> , 1989, 14, 898.	3.3	65
58	Dark nematicons. <i>Optics Letters</i> , 2011, 36, 1356.	3.3	65
59	All-optical switching via second harmonic generation in a nonlinearly asymmetric directional coupler. <i>Optics Communications</i> , 1994, 110, 599-603.	2.1	64
60	Nonlinearly controlled angular momentum of soliton clusters. <i>Optics Letters</i> , 2007, 32, 1447.	3.3	63
61	Spatial solitons and modulational instability in the presence of large birefringence: The case of highly nonlocal liquid crystals. <i>Physical Review E</i> , 2005, 72, 066614.	2.1	61
62	Nematicon all-optical control in liquid crystal light valves. <i>Optics Letters</i> , 2010, 35, 390.	3.3	60
63	Escaping Solitons from a Trapping Potential. <i>Physical Review Letters</i> , 2008, 101, 153902.	7.8	59
64	2.5 Gbit/s polycrystalline germanium-on-silicon photodetector operating from 1.3 to 1.55 μm . <i>Applied Physics Letters</i> , 2003, 82, 2524-2526.	3.3	56
65	Readdressable Interconnects With Spatial Soliton Waveguides in Liquid Crystal Light Valves. <i>IEEE Photonics Technology Letters</i> , 2010, 22, 694-696.	2.5	54
66	Beaming random lasers with soliton control. <i>Nature Communications</i> , 2018, 9, 3863.	12.8	54
67	Two-color, nonlocal vector solitary waves with angular momentum in nematic liquid crystals. <i>Physical Review A</i> , 2008, 78, .	2.5	52
68	Optical solitary waves escaping a wide trapping potential in nematic liquid crystals: Modulation theory. <i>Physical Review A</i> , 2009, 79, .	2.5	52
69	LIGHT SELF-LOCALIZATION IN NEMATIC LIQUID CRYSTALS: MODELLING SOLITONS IN NONLOCAL REORIENTATIONAL MEDIA. <i>Journal of Nonlinear Optical Physics and Materials</i> , 2009, 18, 657-691.	1.8	52
70	Self-trapping of scalar and vector dipole solitary waves in Kerr media. <i>Physical Review A</i> , 2011, 83, .	2.5	52
71	Reorientational versus Kerr dark and gray solitary waves using modulation theory. <i>Physical Review E</i> , 2011, 84, 066602.	2.1	52
72	NONLOCAL OPTICAL PROPAGATION IN NONLINEAR NEMATIC LIQUID CRYSTALS. <i>Journal of Nonlinear Optical Physics and Materials</i> , 2003, 12, 525-538.	1.8	51

#	ARTICLE	IF	CITATIONS
73	Soliton self-deflection via power-dependent walk-off. Applied Physics Letters, 2010, 96, .	3.3	51
74	Quadratic spatial soliton generation by seeded downconversion of a strong harmonic pump beam. Optics Letters, 1997, 22, 1683.	3.3	50
75	Nonspecular Total Internal Reflection of Spatial Solitons at the Interface between Highly Birefringent Media. Physical Review Letters, 2007, 98, 113902.	7.8	50
76	All-optical isolation by directional coupling. Optics Letters, 2008, 33, 1641.	3.3	50
77	All-optical processing by means of vectorial interactions in second-order cascading: novel approaches. Optics Letters, 1994, 19, 1720.	3.3	49
78	Voltage-driven in-plane steering of nematicons. Applied Physics Letters, 2009, 94, .	3.3	49
79	Dipole azimuthons and vortex charge flipping in nematic liquid crystals. Optics Express, 2011, 19, 21457.	3.4	49
80	Exact and approximate solutions for optical solitary waves in nematic liquid crystals. Physica D: Nonlinear Phenomena, 2014, 284, 1-15.	2.8	47
81	One-dimensional transverse modulational instability in nonlocal media with a reorientational nonlinearity. IEEE Journal of Selected Topics in Quantum Electronics, 2004, 10, 862-869.	2.9	46
82	Integrated electro-optic switch in liquid crystals. Optics Express, 2005, 13, 32.	3.4	45
83	Nonlinear management of the angular momentum of soliton clusters: Theory and experiment. Physical Review A, 2007, 75, .	2.5	45
84	Energy Localization in Photonic Crystals of a Purely Nonlinear Origin. Physical Review Letters, 2000, 85, 2502-2505.	7.8	41
85	Self-Turning Self-Confined Light Beams in Guest-Host Media. Physical Review Letters, 2010, 104, 213904.	7.8	41
86	Ge/Si (001) Photodetector for Near Infrared Light. Solid State Phenomena, 1997, 54, 55-58.	0.3	40
87	Self-healing generation of spatial solitons in liquid crystals. Optics Letters, 2005, 30, 1381.	3.3	40
88	Parametric Solitons in Two-Dimensional Lattices of Purely Nonlinear Origin. Physical Review Letters, 2008, 100, 053901.	7.8	40
89	Counterpropagating nematicons in bias-free liquid crystals. Optics Express, 2010, 18, 3258.	3.4	40
90	Observation of stable-vector vortex solitons. Optics Letters, 2015, 40, 4182.	3.3	40

#	ARTICLE	IF	CITATIONS
91	Discrete light localization in one-dimensional nonlinear lattices with arbitrary nonlocality. Physical Review E, 2005, 72, 066608.	2.1	39
92	Spatial solitons in liquid-crystal light valves. Optics Letters, 2009, 34, 737.	3.3	39
93	Low-temperature germanium thin films on silicon. Optical Materials Express, 2011, 1, 856.	3.0	39
94	Large, nonresonant, intensity dependent refractive index of 4-(dialkylamino)-4'-nitro-diphenyl-polyene side chain polymers in waveguides. Applied Physics Letters, 1991, 58, 2613-2615.	3.3	38
95	Excitation of self-transparency Bragg solitons in quadratic media. Optics Letters, 1997, 22, 1350.	3.3	38
96	Nonlinear shift of spatial solitons at a graded dielectric interface. Optics Letters, 2007, 32, 271.	3.3	38
97	All-optical Integrated Nonlinear Devices. Journal of Modern Optics, 1990, 37, 855-873.	1.3	37
98	Optical solitons and wave-particle duality. Optics Letters, 2011, 36, 1848.	3.3	36
99	Light bullets in the spatiotemporal nonlinear Schrödinger equation with a variable negative diffraction coefficient. Physical Review A, 2011, 84, .	2.5	36
100	All-optical tuning of waveguide nonlinear distributed feedback gratings. Applied Physics Letters, 1990, 56, 602-604.	3.3	35
101	Optical gap solitons via second-harmonic generation: Exact solitary solutions. Physical Review E, 1998, 57, R1251-R1254.	2.1	35
102	Multimode nematic waveguides. Optics Letters, 2011, 36, 184.	3.3	35
103	Magnetic routing of light-induced waveguides. Nature Communications, 2017, 8, 14452.	12.8	35
104	Waves in hyperbolic and double negative metamaterials including roques and solitons. Nanotechnology, 2017, 28, 444001.	2.6	35
105	Power-dependent coupling and fast switching in distributed coupling to ZnO waveguides. Applied Physics Letters, 1986, 49, 687-689.	3.3	34
106	Transistor action through nonlinear cascading in Type II interactions. Optics Letters, 1995, 20, 1595.	3.3	34
107	All-optical switching and beam steering in tunable waveguide arrays. Applied Physics Letters, 2005, 86, 051112.	3.3	34
108	All-optical Landau-Zener tunneling in waveguide arrays. Optics Express, 2006, 14, 2021.	3.4	34

#	ARTICLE	IF	CITATIONS
109	Refraction of nonlinear beams by localized refractive index changes in nematic liquid crystals. <i>Physical Review A</i> , 2010, 82, .	2.5	34
110	Intensity-controlled interactions between vectorial spatial solitary waves in quadratic nonlinear media. <i>Optics Letters</i> , 1997, 22, 7.	3.3	33
111	Parametric gap solitons in quadratic media. <i>Optics Express</i> , 1998, 3, 389.	3.4	33
112	Spatial optical solitons in highly nonlocal media. <i>Physical Review A</i> , 2015, 91, .	2.5	33
113	Vortex stabilization by means of spatial solitons in nonlocal media. <i>Journal of Optics (United Kingdom)</i> 11 0.784314,rgBT /Overlock 10	2.2	33
114	High responsivity near infrared Ge photodetectors integrated on Si. <i>Electronics Letters</i> , 1999, 35, 1467.	1.0	32
115	Monolithic integration of near-infrared Ge photodetectors with Si complementary metal-oxide-semiconductor readout electronics. <i>Applied Physics Letters</i> , 2002, 80, 3268-3270.	3.3	32
116	Optical parametric oscillations in isotropic photonic crystals. <i>Optics Express</i> , 2004, 12, 823.	3.4	32
117	Nematicons across interfaces: anomalous refraction and reflection of solitons in liquid crystals. <i>Optics Express</i> , 2007, 15, 8021.	3.4	32
118	Near-infrared absorption of germanium thin films on silicon. <i>Applied Physics Letters</i> , 2008, 93, .	3.3	32
119	Bistability with Optical Beams Propagating in a Reorientational Medium. <i>Physical Review Letters</i> , 2014, 113, 023901.	7.8	32
120	Soliton enhancement of spontaneous symmetry breaking. <i>Optica</i> , 2015, 2, 783.	9.3	32
121	Cascading effects in type II second-harmonic generation: applications to all-optical processing. <i>Optics Communications</i> , 1995, 119, 143-148.	2.1	30
122	Optical multisoliton generation in nematic liquid crystals. <i>Optics Letters</i> , 2003, 28, 2231.	3.3	30
123	Light propagation through a nonlinear defect: symmetry breaking and controlled soliton emission. <i>Optics Letters</i> , 2006, 31, 1489.	3.3	30
124	A Near-Infrared Digital Camera in Polycrystalline Germanium Integrated on Silicon. <i>IEEE Journal of Quantum Electronics</i> , 2007, 43, 311-315.	1.9	30
125	Near-Infrared p-i-n Ge-on-Si Photodiodes for Silicon Integrated Receivers. <i>Journal of Lightwave Technology</i> , 2008, 26, 2954-2959.	4.6	30
126	Solitary wave propagation and steering through light-induced refractive potentials. <i>Physical Review A</i> , 2010, 81, .	2.5	30

#	ARTICLE	IF	CITATIONS
127	Large electro-optic beam steering with nematicons. <i>Optics Letters</i> , 2011, 36, 2725.	3.3	30
128	Nematicons: reorientational solitons from optics to photonics. <i>Liquid Crystals Reviews</i> , 2018, 6, 170-194.	4.1	30
129	High efficiency photodetectors based on high quality epitaxial germanium grown on silicon substrates. <i>Optical Materials</i> , 2001, 17, 71-73.	3.6	29
130	Optical multiband vector breathers in tunable waveguide arrays. <i>Optics Letters</i> , 2005, 30, 174.	3.3	29
131	Complex dynamics and configurational entropy of spatial optical solitons in nonlocal media. <i>Optics Letters</i> , 2006, 31, 2030.	3.3	29
132	Bloch function approach for parametric gap solitons. <i>Optics Letters</i> , 1997, 22, 445.	3.3	28
133	Cavityless oscillation through backward quasi-phase-matched second-harmonic generation. <i>Optics Letters</i> , 1999, 24, 1139.	3.3	28
134	Waveguide photodetectors for the near-infrared in polycrystalline Germanium on silicon. <i>IEEE Photonics Technology Letters</i> , 2006, 18, 1094-1096.	2.5	28
135	Widely tunable electro-optic distributed Bragg reflector in liquid crystal waveguide. <i>Optics Express</i> , 2010, 18, 11524.	3.4	28
136	Nonlinear continuous-wave optical propagation in nematic liquid crystals: Interplay between reorientational and thermal effects. <i>Physical Review E</i> , 2017, 96, 012703.	2.1	28
137	All-optical switching in prism coupling to semiconductor-doped glass waveguides. <i>Electronics Letters</i> , 1987, 23, 484-485.	1.0	27
138	Soliton Steering by Longitudinal Modulation of the Nonlinearity in Waveguide Arrays. <i>Physical Review Letters</i> , 2010, 104, 053903.	7.8	27
139	Deflection and trapping of spatial solitons in linear photonic potentials. <i>Optics Express</i> , 2013, 21, 18646.	3.4	27
140	Optical bistability in nonlocally nonlinear periodic structures. <i>Applied Physics Letters</i> , 1990, 56, 2285-2287.	3.3	26
141	Spatially incoherent modulational instability in a non local medium. <i>Laser Physics Letters</i> , 2005, 2, 25-29.	1.4	26
142	All-optical switching in a liquid crystalline waveguide. <i>Applied Physics Letters</i> , 2005, 86, 051109.	3.3	26
143	Nonlocal incoherent spatial solitons in liquid crystals. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2005, 22, 1371.	2.1	26
144	Optically induced Zener tunneling in one-dimensional lattices. <i>Optics Letters</i> , 2006, 31, 790.	3.3	26

#	ARTICLE	IF	CITATIONS
145	Efficient high-harmonic generation in engineered quasi-phase matching gratings. Optics Express, 2008, 16, 1.	3.4	26
146	Continuous-wave backward frequency doubling in periodically poled lithium niobate. Applied Physics Letters, 2010, 96, .	3.3	26
147	Space-time bullet trains via modulation instability and nonlocal solitons. Optics Express, 2010, 18, 5934.	3.4	26
148	In-plane steering of nematicon waveguides across an electrically tuned interface. Applied Physics Letters, 2012, 100, .	3.3	26
149	Vortex nematicons in planar cells. Optics Express, 2020, 28, 8282.	3.4	26
150	Trapping of slowly moving or stationary two-color gap solitons. Optics Letters, 1998, 23, 334.	3.3	25
151	Observation of power-dependent walk-off via modulational instability in nematic liquid crystals. Optics Letters, 2005, 30, 2290.	3.3	25
152	Transverse nonlinear optics in heavy-metal-oxide glass. Physical Review A, 2008, 77, .	2.5	25
153	Random quasi-phase-matched second-harmonic generation in periodically poled lithium tantalate. Optics Letters, 2010, 35, 363.	3.3	25
154	Thermo-optic soliton routing in nematic liquid crystals. Optics Letters, 2018, 43, 2296.	3.3	25
155	Spiraling and Cyclic Dynamics of Nematicons. Molecular Crystals and Liquid Crystals, 2004, 421, 197-207.	0.9	24
156	Impedance matching in photonic crystal microcavities for second-harmonic generation. Optics Letters, 2006, 31, 250.	3.3	24
157	Collisionless shock resolution in nematic liquid crystals. Physical Review A, 2008, 78, .	2.5	24
158	Modulation analysis of boundary-induced motion of optical solitary waves in a nematic liquid crystal. Physical Review A, 2009, 79, .	2.5	24
159	Nonlinear competition in nematicon propagation. Optics Letters, 2015, 40, 5235.	3.3	24
160	Curved optical solitons subject to transverse acceleration in reorientational soft matter. Scientific Reports, 2017, 7, 12385.	3.3	24
161	Analytical approach to all-optical modulation by cascading. Optics Letters, 1995, 20, 1686.	3.3	23
162	Quadratic phase matching in slot waveguides. Optics Letters, 2006, 31, 3146.	3.3	23

#	ARTICLE	IF	CITATIONS
163	Tunable wavelength-selective add-drop in liquid crystals on a silicon microresonator. Optics Communications, 2007, 279, 210-213.	2.1	23
164	Nematicons beyond the perturbative regime. Optics Letters, 2010, 35, 2520.	3.3	23
165	Vortex confinement and bending with nonlocal solitons. Optics Letters, 2014, 39, 509.	3.3	23
166	Electromagnetic Confinement via Spin-Orbit Interaction in Anisotropic Dielectrics. ACS Photonics, 2016, 3, 2249-2254.	6.6	23
167	Low-threshold spatial solitons in reverse-proton-exchanged periodically poled lithium niobate waveguides. Optics Letters, 2004, 29, 1778.	3.3	22
168	Silica masks for improved surface poling of lithium niobate. Electronics Letters, 2005, 41, 92.	1.0	22
169	Ultraviolet generation in periodically poled lithium tantalate waveguides. Applied Physics Letters, 2008, 93, .	3.3	22
170	Self-guided beams in low-birefringence nematic liquid crystals. Physical Review A, 2012, 86, .	2.5	22
171	Scattering of reorientational optical solitary waves at dielectric perturbations. Physical Review A, 2012, 85, .	2.5	22
172	Power-controlled transition from standard to negative refraction in reorientational soft matter. Nature Communications, 2014, 5, 5533.	12.8	22
173	Breather solitons in highly nonlocal media. Journal of Optics (United Kingdom), 2016, 18, 125501.	2.2	22
174	Self-sustained trapping mechanism of zero-velocity parametric gap solitons. Physical Review E, 1999, 59, 2467-2470.	2.1	21
175	Cascading phase shift and multivalued response in counterpropagating frequency-nondegenerate parametric amplifiers. Optics Letters, 2000, 25, 966.	3.3	21
176	Power-dependent nematicon steering via walk-off. Journal of the Optical Society of America B: Optical Physics, 2010, 27, 2398.	2.1	21
177	Modulation analysis of nonlinear beam refraction at an interface in liquid crystals. Physical Review A, 2011, 84, .	2.5	21
178	All-optical switching of a signal by a pair of interacting nematicons. Optics Express, 2012, 20, 24701.	3.4	21
179	Polarization spatial chaos in second-harmonic generation. Optics Letters, 1994, 19, 1825.	3.3	20
180	Linear Array of Si-Ge Heterojunction Photodetectors Monolithically Integrated With Silicon CMOS Readout Electronics. IEEE Journal of Selected Topics in Quantum Electronics, 2004, 10, 811-815.	2.9	20

#	ARTICLE	IF	CITATIONS
181	Terahertz pulse generation via optical rectification in photonic crystal microcavities. Optics Letters, 2005, 30, 1174.	3.3	20
182	Near-infrared spatial solitons in heavy metal oxide glasses. Optics Letters, 2007, 32, 2103.	3.3	20
183	Enhancement of third-harmonic generation in nonlocal spatial solitons. Optics Letters, 2010, 35, 3342.	3.3	20
184	Parametric self-trapping in the presence of randomized quasi phase matching. Optics Letters, 2010, 35, 3760.	3.3	20
185	Self-confined light waves in nematic liquid crystals. Physica D: Nonlinear Phenomena, 2020, 402, 132182.	2.8	20
186	Guided-wave frequency doubling in surface periodically poled lithium niobate: competing effects. Journal of the Optical Society of America B: Optical Physics, 2007, 24, 1564.	2.1	19
187	Nematicon-nematicon interactions in a medium with tunable nonlinearity and fixed nonlocality. Optics Letters, 2011, 36, 2566.	3.3	19
188	A near-infrared optoelectronic approach to detection of road conditions. Optics and Lasers in Engineering, 2013, 51, 633-636.	3.8	19
189	Germanium-on-Glass solar cells: fabrication and characterization. Optical Materials Express, 2013, 3, 216.	3.0	19
190	Design and simulation of optically controlled field effect transistors. Physica Status Solidi C: Current Topics in Solid State Physics, 2014, 11, 81-84.	0.8	19
191	Phase- and polarization-insensitive all-optical switching by self-guiding in quadratic media. Optics Letters, 1997, 22, 1391.	3.3	18
192	A germanium photodetector array for the near infrared monolithically integrated with silicon CMOS readout electronics. Physica E: Low-Dimensional Systems and Nanostructures, 2003, 16, 614-619.	2.7	18
193	Deflection of nematicons through interaction with dielectric particles. Journal of the Optical Society of America B: Optical Physics, 2013, 30, 1432.	2.1	18
194	Accessible solitons in diffusive media. Optics Letters, 2014, 39, 4317.	3.3	18
195	Guided-wave optical bistability and limiting in zinc sulfide thin films. Journal of Applied Physics, 1990, 67, 3882-3885.	2.5	17
196	Second harmonic generation in reverse proton exchanged Lithium Niobate waveguides. Optics Express, 2001, 8, 232.	3.4	17
197	Incoherent interaction of nematicons in bias-free liquid-crystal cells. Journal of the European Optical Society-Rapid Publications, 0, 5, .	1.9	17
198	Nonlinear Disorder Mapping Through Three-Wave Mixing. IEEE Photonics Journal, 2010, 2, 18-28.	2.0	17

#	ARTICLE	IF	CITATIONS
199	Deflection of nematicon-vortex vector solitons in liquid crystals. <i>Physical Review A</i> , 2014, 89, .	2.5	17
200	All-optical guided-wave random laser in nematic liquid crystals. <i>Optics Express</i> , 2017, 25, 4672.	3.4	17
201	Spin-optical solitons in liquid crystals. <i>Physical Review A</i> , 2020, 102, .	2.5	17
202	Realization of integrated Bragg reflectors in DANS-polymer waveguides. <i>Journal of Lightwave Technology</i> , 1993, 11, 1189-1195.	4.6	16
203	Contraction of aluminum oxide thin layers in optical heterostructures. <i>Applied Physics Letters</i> , 2003, 83, 2554-2556.	3.3	16
204	Pulse shaping via Backward Second Harmonic Generation. <i>Optics Express</i> , 2008, 16, 2115.	3.4	16
205	Trends and trade-offs in nematicon propagation. <i>Applied Physics B: Lasers and Optics</i> , 2011, 104, 805-811.	2.2	16
206	Modeling Nematicon Propagation. <i>Molecular Crystals and Liquid Crystals</i> , 2013, 572, 2-12.	0.9	16
207	Nematic liquid crystals: An excellent playground for nonlocal nonlinear light localization in soft matter. <i>Journal of Nonlinear Optical Physics and Materials</i> , 2014, 23, 1450046.	1.8	16
208	Interplay between diffraction and the Pancharatnam-Berry phase in inhomogeneously twisted anisotropic media. <i>Physical Review A</i> , 2017, 95, .	2.5	16
209	Molding Optical Waveguides with Nematicons. <i>Advanced Optical Materials</i> , 2017, 5, 1700199.	7.3	16
210	Feedback-enhanced bistability in grating coupling into InSb waveguides. <i>Optics Letters</i> , 1990, 15, 411.	3.3	15
211	Thermally evaporated single-crystal Germanium on Silicon. <i>Thin Solid Films</i> , 2011, 519, 8037-8040.	1.8	15
212	Soliton-assisted random lasing in optically-pumped liquid crystals. <i>Applied Physics Letters</i> , 2016, 109, .	3.3	15
213	SOLITONS Bright Spatial Solitons. , 2005, , 43-55.		15
214	Bending reorientational solitons with modulated alignment. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2017, 34, 2459.	2.1	15
215	Optothermal vortex-solitons in liquid crystals. <i>Optics Letters</i> , 2020, 45, 2451.	3.3	15
216	Voltage tunable SiGe photodetector: A novel tool for crypted optical communications through wavelength mixing. <i>Applied Physics Letters</i> , 1997, 70, 3194-3196.	3.3	14

#	ARTICLE	IF	CITATIONS
217	Bidimensional spatial solitary waves in quadratically nonlinear bulk media. Journal of the Optical Society of America B: Optical Physics, 1997, 14, 3134.	2.1	14
218	Universal character of the discrete nonlinear Schrödinger equation. Physical Review A, 2007, 76, .	2.5	14
219	Nonparaxial (1+1)D spatial solitons in uniaxial media. Optics Letters, 2011, 36, 193.	3.3	14
220	REFRACTION OF NONLINEAR LIGHT BEAMS IN NEMATIC LIQUID CRYSTALS. Journal of Nonlinear Optical Physics and Materials, 2012, 21, 1250033.	1.8	14
221	Title is missing!. Optical and Quantum Electronics, 1998, 30, 907-921.	3.3	13
222	Phase-insensitive all-optical transistors based on second-order nonlinearities. IEEE Journal of Quantum Electronics, 1998, 34, 666-672.	1.9	13
223	DISSIPATIVE SELF-CONFINED OPTICAL BEAMS IN DOPED NEMATIC LIQUID CRYSTALS. Journal of Nonlinear Optical Physics and Materials, 2007, 16, 295-305.	1.8	13
224	Nonlocal soliton scattering in random potentials. Journal of Optics (United Kingdom), 2016, 18, 07LT01.	2.2	13
225	Accelerated optical solitons in reorientational media with transverse invariance and longitudinally modulated birefringence. Physical Review A, 2018, 98, .	2.5	13
226	All-optical phase controlled amplitude modulator. Electronics Letters, 1994, 30, 733-735.	1.0	12
227	Mode interplay via quadratic cascading in a lithium niobate waveguide for all-optical processing. Optical and Quantum Electronics, 1997, 29, 53-63.	3.3	12
228	Spatial optical solitons in nonlinearly coupled planar waveguides. Optics Letters, 2003, 28, 1031.	3.3	12
229	Surface periodic poling in congruent lithium tantalate. Electronics Letters, 2006, 42, 546.	1.0	12
230	Temperature-Dependence of Ge on Si p-i-n Photodetectors. Journal of Lightwave Technology, 2008, 26, 2211-2214.	4.6	12
231	Engineered quasi-phase matching for multiple parametric generation. Optics Express, 2009, 17, 3765.	3.4	12
232	Distributed feedback grating in liquid crystal waveguide: a novel approach. Optics Express, 2009, 17, 5251.	3.4	12
233	Interaction of self-trapped beams in high index glass. Optics Express, 2009, 17, 17150.	3.4	12
234	Lagrange solution for three wavelength solitary wave clusters in nematic liquid crystals. Physica D: Nonlinear Phenomena, 2011, 240, 1213-1219.	2.8	12

#	ARTICLE	IF	CITATIONS
235	Steering of optical solitary waves by coplanar low power beams in reorientational media. Journal of Nonlinear Optical Physics and Materials, 2014, 23, 1450045.	1.8	12
236	Interplay of Thermo-Optic and Reorientational Responses in Nematicon Generation. Materials, 2018, 11, 1837.	2.9	12
237	Nonlinear all-optical beam scanner. Journal of Applied Physics, 1990, 67, 1188-1193.	2.5	11
238	Excitation of stable transverse wavepackets with quadratic and cubic susceptibilities. Optics Communications, 1998, 150, 390-398.	2.1	11
239	Quadratic spatial soliton generation by seeded downconversion of a strong harmonic pump beam: errata. Optics Letters, 2001, 26, 105.	3.3	11
240	Form birefringence phase matching in multilayer semiconductor waveguides: tuning and tolerances. IEEE Journal of Quantum Electronics, 2005, 41, 1293-1302.	1.9	11
241	Color-center waveguides in low-energy electron-bombarded lithium fluoride. Applied Physics Letters, 2006, 88, 261111.	3.3	11
242	ROUTING LIGHT AT WILL. Journal of Nonlinear Optical Physics and Materials, 2007, 16, 37-47.	1.8	11
243	Analysis of temperature dependence of Ge-on-Si photodetectors. Physica E: Low-Dimensional Systems and Nanostructures, 2009, 41, 1086-1089.	2.7	11
244	Frequency-controlled deflection of spatial solitons in nematic liquid crystals. Applied Physics Letters, 2012, 101, 081112.	3.3	11
245	Highly nonlocal optical response: Benefit or drawback?. Journal of Nonlinear Optical Physics and Materials, 2016, 25, 1650043.	1.8	11
246	Switching and self-pulsing with dynamic holographic gratings in photorefractive waveguides. Optics Communications, 1990, 74, 361-364.	2.1	10
247	Guided-wave optical bistability in indium antimonide thin films. IEEE Journal of Quantum Electronics, 1991, 27, 809-816.	1.9	10
248	Beam pointing control with spatial solitary waves in quadratic nonlinear media. Optics Communications, 1997, 134, 223-226.	2.1	10
249	Metal-Ge-Si heterostructures for near-infrared light detection. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1999, 17, 465.	1.6	10
250	Guided-wave near-infrared detector in polycrystalline germanium on silicon. Applied Physics Letters, 2005, 87, 203507.	3.3	10
251	Femtosecond pulse synthesis by efficient second-harmonic generation in engineered quasi phase matching gratings. Optics Express, 2007, 15, 7448.	3.4	10
252	Near-Infrared Ge-on-Si Power Monitors Monolithically Integrated on SOI Chips. IEEE Photonics Technology Letters, 2010, 22, 658-660.	2.5	10

#	ARTICLE	IF	CITATIONS
253	Beam hysteresis via reorientational self-focusing. <i>Optics Letters</i> , 2014, 39, 5830.	3.3	10
254	Magnetic steering of beam-confined random laser in liquid crystals. <i>Applied Physics Letters</i> , 2018, 113, .	3.3	10
255	Spatial solitons to mold random lasers in nematic liquid crystals [Invited]. <i>Optical Materials Express</i> , 2018, 8, 3864.	3.0	10
256	Observation of dynamic photorefractive effect in lithium niobate waveguides. <i>Optics Communications</i> , 1989, 73, 439-442.	2.1	9
257	Thermal and Band-filling Effects in Prism Coupling to CdSSe-doped Glass Waveguides. <i>Journal of Modern Optics</i> , 1989, 36, 305-316.	1.3	9
258	Polarization-multiplexed $\chi^{(2)}$ solitary-wave interactions. <i>Optics Letters</i> , 1997, 22, 1376.	3.3	9
259	X-ray and optical characterization of multilayer AlGaAs waveguides. <i>Applied Physics Letters</i> , 2000, 77, 3884-3886.	3.3	9
260	Efficient frequency doubling in reverse proton exchanged lithium niobate waveguides. <i>IEEE Photonics Technology Letters</i> , 2001, 13, 323-325.	2.5	9
261	GAP SOLITONS AND SLOW LIGHT. <i>Journal of Nonlinear Optical Physics and Materials</i> , 2002, 11, 239-259.	1.8	9
262	NEMATICONS AND THEIR ANGULAR STEERING. <i>Journal of Nonlinear Optical Physics and Materials</i> , 2006, 15, 33-42.	1.8	9
263	Integrated frequency shifter in periodically poled lithium tantalate waveguide. <i>Electronics Letters</i> , 2010, 46, 1686.	1.0	9
264	Parametric Conversion in Micrometer and Submicrometer Structured Ferroelectric Crystals by Surface Poling. <i>International Journal of Optics</i> , 2012, 2012, 1-11.	1.4	9
265	Nematicons in Azobenzene Liquid Crystals. <i>Molecular Crystals and Liquid Crystals</i> , 2012, 559, 202-213.	0.9	9
266	Comment on "Solitons in highly nonlocal nematic liquid crystals: Variational approach". <i>Physical Review A</i> , 2013, 87, .	2.5	9
267	Spin- π dopant phosphorus diffusion in germanium thin films for near-infrared detectors. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2014, 11, 57-60.	0.8	9
268	Scalar and vector supermode solitons owing to competing nonlocal nonlinearities. <i>Optics Express</i> , 2021, 29, 8015.	3.4	9
269	Electro-optic quenching of nematicon fluctuations. <i>Optics Letters</i> , 2019, 44, 167.	3.3	9
270	Analysis of all-optical integrated beam scanning devices. <i>Applied Physics Letters</i> , 1989, 54, 1854-1856.	3.3	8

#	ARTICLE	IF	CITATIONS
271	Butterfly bistability in grating coupled thin film waveguides. <i>Optics Communications</i> , 1990, 75, 441-446.	2.1	8
272	Nonlinear optical probes of conjugated polymers. <i>Synthetic Metals</i> , 1992, 49, 21-35.	3.9	8
273	Three-Dimensional Superprism Effect in Photonic-Crystal Slabs. <i>Journal of Lightwave Technology</i> , 2004, 22, 1748-1753.	4.6	8
274	Second-harmonic generation in surface periodically poled lithium niobate waveguides: on the role of multiphoton absorption. <i>Applied Physics B: Lasers and Optics</i> , 2008, 93, 559-565.	2.2	8
275	Guided-wave photodetectors in germanium on SOI optical chips. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2009, 41, 1090-1093.	2.7	8
276	Germanium on insulator near-infrared photodetectors fabricated by layer transfer. <i>Thin Solid Films</i> , 2010, 518, 2501-2504.	1.8	8
277	Nonparaxial solitary waves in anisotropic dielectrics. <i>Physical Review A</i> , 2011, 83, .	2.5	8
278	Interactions of accessible solitons with interfaces in anisotropic media: the case of uniaxial nematic liquid crystals. <i>New Journal of Physics</i> , 2013, 15, 043011.	2.9	8
279	Soliton Aided Propagation and Routing of Vortex Beams in Nonlocal Media. <i>Journal of Lasers, Optics & Photonics</i> , 2014, 01, .	0.1	8
280	Multihump thermo-reorientational solitary waves in nematic liquid crystals: Modulation theory solutions. <i>Physical Review A</i> , 2021, 104, .	2.5	8
281	Soliton polarization rotation and switching in type II second-harmonic generation. <i>Optics Letters</i> , 1996, 21, 1969.	3.3	7
282	Prism coupling into second-order nonlinear waveguides. <i>Optics Communications</i> , 1998, 146, 95-98.	2.1	7
283	Thin film devices for all-optical switching and processing via quadratic non-linearities. <i>Thin Solid Films</i> , 1998, 331, 291-297.	1.8	7
284	All-optical mode mixer spatial switch based on cascading in lithium niobate. <i>Applied Physics Letters</i> , 1998, 72, 3405-3407.	3.3	7
285	A routing switch based on a silicon-on-insulator mode-mixer. <i>IEEE Photonics Technology Letters</i> , 1999, 11, 194-196.	2.5	7
286	Near-infrared waveguide photodetectors based on polycrystalline Ge on silicon-on-insulator substrates. <i>Optical Materials</i> , 2001, 17, 243-246.	3.6	7
287	Phase-matching engineering in birefringent AlGaAs waveguides for difference frequency generation. <i>Journal of Lightwave Technology</i> , 2002, 20, 651-660.	4.6	7
288	Second harmonic generation in coupled LiNbO ₃ waveguides by reverse-proton exchange. <i>IEEE Photonics Technology Letters</i> , 2003, 15, 443-445.	2.5	7

#	ARTICLE	IF	CITATIONS
289	Wavelength shifting in photonic bandgap microcavities with isotropic media. Applied Physics Letters, 2004, 85, 4585-4587.	3.3	7
290	Photonic crystal wires for optical parametric oscillators in isotropic media. Applied Physics B: Lasers and Optics, 2004, 79, 9-13.	2.2	7
291	Parametric Oscillations in Photonic Crystal Slabs 3-D Time-Domain Analysis. IEEE Photonics Technology Letters, 2004, 16, 1495-1497.	2.5	7
292	Controlled transmission in the forbidden photonic bandgap via transient nonlinear states. Optics Letters, 2004, 29, 2902.	3.3	7
293	Dispersion spectroscopy of photonic lattices. Optics Letters, 2006, 31, 3351.	3.3	7
294	Spatial solitons in \mathbb{R}^2 planar photonic crystals. Optics Letters, 2007, 32, 3149.	3.3	7
295	Sub-milliwatt dissipative nematicons and spontaneous light emission in dye-doped nematic liquid crystals. Electronics Letters, 2010, 46, 790.	1.0	7
296	On beam propagation in anisotropic media: one-dimensional analysis. Optics Letters, 2011, 36, 334.	3.3	7
297	Nematicon waveguides: self-confined beams and their electric control. Applied Physics B: Lasers and Optics, 2012, 108, 177-182.	2.2	7
298	Nematicons and Their Electro-Optic Control: Light Localization and Signal Readdressing via Reorientation in Liquid Crystals. International Journal of Molecular Sciences, 2013, 14, 19932-19950.	4.1	7
299	Backward frequency doubling of near infrared picosecond pulses. Optics Express, 2014, 22, 7544.	3.4	7
300	Spatial routing with light-induced waveguides in uniaxial nematic liquid crystals. Journal of Nonlinear Optical Physics and Materials, 2014, 23, 1450047.	1.8	7
301	On optical Airy beams in integrable and non-integrable systems. Wave Motion, 2015, 52, 183-193.	2.0	7
302	Light-Induced Waveguides in Nematic Liquid Crystals. IEEE Journal of Selected Topics in Quantum Electronics, 2016, 22, 221-226.	2.9	7
303	Temperature control of nematicon trajectories. Physical Review E, 2019, 100, 062702.	2.1	7
304	Guiding light with singular beams in nanoplasmonic colloids. Applied Physics Letters, 2021, 118, .	3.3	7
305	Guided-wave optical bistability through nonlinear cascading in a phase-matched distributed reflector. Electronics Letters, 1995, 31, 1661-1662.	1.0	7
306	Spatial optical solitons in nonlinearly coupled lithium niobate waveguides. IEEE Photonics Technology Letters, 2003, 15, 537-539.	2.5	6

#	ARTICLE	IF	CITATIONS
307	Fast Ge-on-Si Photodetectors for the Near Infrared. ECS Transactions, 2006, 3, 85-97.	0.5	6
308	Guiding and Routing Light with Nematicons. Molecular Crystals and Liquid Crystals, 2008, 488, 163-178.	0.9	6
309	Electro-Optic Beam Steering with Nematicons. Molecular Crystals and Liquid Crystals, 2012, 558, 12-21.	0.9	6
310	Near-Infrared Photodetectors in Evaporated Ge: Characterization and TCAD Simulations. IEEE Transactions on Electron Devices, 2013, 60, 1995-2000.	3.0	6
311	Power-induced evolution and increased dimensionality of nonlinear modes in reorientational soft matter. Optics Letters, 2014, 39, 6399.	3.3	6
312	??-symmetric nonlocal gap solitons in optical lattices. Journal of Nonlinear Optical Physics and Materials, 2014, 23, 1450041.	1.8	6
313	Phase-front curvature effects on nematicon generation. Journal of the Optical Society of America B: Optical Physics, 2016, 33, 903.	2.1	6
314	Anomalous diffraction in hyperbolic materials. Physical Review A, 2016, 94, .	2.5	6
315	Quasi two-dimensional astigmatic solitons in soft chiral metastructures. Scientific Reports, 2016, 6, 22923.	3.3	6
316	Spatial Optical Solitons in Bulk Nematic Liquid Crystals. Acta Physica Polonica A, 2003, 103, 161-167.	0.5	6
317	Read/write all-optical buffer by self-trapped gap solitons. Electronics Letters, 1998, 34, 689.	1.0	5
318	Optically controlled delay lines by pulse self-trapping in parametric waveguides with distributed feedback. IEEE Journal of Quantum Electronics, 2000, 36, 931-943.	1.9	5
319	Birefringence evaluation of multimode multilayer AlGaAs/AlAs waveguides. Applied Physics Letters, 2001, 78, 1472-1474.	3.3	5
320	Si-based near infrared photodetectors operating at 10Gbit/s. Journal of Luminescence, 2006, 121, 413-416.	3.1	5
321	LITHIUM NIOBATE STEP-INDEX WAVEGUIDES FOR BROADBAND SECOND HARMONIC GENERATION. Journal of Nonlinear Optical Physics and Materials, 2006, 15, 191-202.	1.8	5
322	Germanium-on-glass near-infrared detectors. Electronics Letters, 2009, 45, 994.	1.0	5
323	Noise characterization of Ge/Si photodetectors. , 2011, , .		5
324	Optical vortices in antguides. Optics Letters, 2013, 38, 1618.	3.3	5

#	ARTICLE	IF	CITATIONS
325	Nonlinear negative refraction in reorientational soft matter. <i>Physical Review A</i> , 2015, 92, .	2.5	5
326	Diffraction-induced instability of coupled dark solitary waves. <i>Optics Letters</i> , 2015, 40, 1771.	3.3	5
327	Voltage-driven beam bistability in a reorientational uniaxial dielectric. <i>APL Photonics</i> , 2016, 1, 011302.	5.7	5
328	Near-Infrared Switching of Light-Guided Random Laser. <i>IEEE Photonics Journal</i> , 2018, 10, 1-7.	2.0	5
329	Three-color vector nematicon. <i>Photonics Letters of Poland</i> , 2017, 9, 36.	0.4	5
330	Effects of Taper in Nonlinear Distributed Feedback Gratings. <i>Journal of Modern Optics</i> , 1988, 35, 871-883.	1.3	4
331	Interferometric determination of the linewidth enhancement factor of a 1.55 μm GaInAsP optical amplifier. <i>Applied Physics Letters</i> , 1991, 58, 816-818.	3.3	4
332	Interactions of Type II vectorial spatial solitary waves in materials with quadratic non-linearity. <i>Optical and Quantum Electronics</i> , 1998, 30, 923-935.	3.3	4
333	Multiple branching of vectorial spatial solitary waves in quadratic media. <i>Optics Communications</i> , 1998, 146, 356-362.	2.1	4
334	Near infrared wavemeter in polycrystalline germanium on silicon. <i>Electronics Letters</i> , 1999, 35, 1549.	1.0	4
335	Coherent and Incoherent Spatial Solitons in Bulk Nematic Liquid Crystals. <i>Molecular Crystals and Liquid Crystals</i> , 2002, 375, 617-629.	0.9	4
336	Wavelength stabilizer for telecommunication lasers: design and optimization. <i>Journal of Lightwave Technology</i> , 2003, 21, 1749-1757.	4.6	4
337	HIGHLY NONLOCAL OPTICAL SOLITONS AND THEIR OBSERVATION IN NEMATIC LIQUID CRYSTALS. <i>International Journal of Modern Physics B</i> , 2004, 18, 2819-2828.	2.0	4
338	Discrete Light Propagation and Self-Localization in Voltage-Controlled Arrays of Channel Waveguides in Undoped Nematic Liquid Crystals. <i>Molecular Crystals and Liquid Crystals</i> , 2006, 453, 191-202.	0.9	4
339	Symmetry-breaking instabilities in perturbed optical lattices: Nonlinear nonreciprocity and macroscopic self-trapping. <i>Physical Review A</i> , 2007, 75, .	2.5	4
340	Stable Proton Exchanged Waveguides in Lithium Tantalate. <i>IEEE Photonics Technology Letters</i> , 2008, 20, 2126-2128.	2.5	4
341	Soft proton exchanged channel waveguides in congruent lithium tantalate for frequency doubling. <i>Optics Express</i> , 2010, 18, 25967.	3.4	4
342	Features of randomized electric-field assisted domain inversion in lithium tantalate. <i>Optics Express</i> , 2011, 19, 25780.	3.4	4

#	ARTICLE	IF	CITATIONS
343	Thermal evaporation of Ge on Si for near infrared detectors: Material and device characterization. <i>Microelectronic Engineering</i> , 2011, 88, 526-529.	2.4	4
344	Micro-Raman characterization of Germanium thin films evaporated on various substrates. <i>Microelectronic Engineering</i> , 2011, 88, 492-495.	2.4	4
345	Soliton self-routing in a finite photonic potential. <i>Optics Letters</i> , 2013, 38, 2071.	3.3	4
346	Nematicons in planar cells subject to the optical Fr�edericksz threshold. <i>Optics Express</i> , 2014, 22, 30663.	3.4	4
347	Extraction of Schottky Barrier Parameters for Metal-Semiconductor Junctions on High Resistivity Inhomogeneous, Semiconductors. <i>IEEE Transactions on Electron Devices</i> , 2015, 62, 465-470.	3.0	4
348	Sign-dependent response of nonlinear directional couplers. <i>Optics Communications</i> , 1990, 77, 402-406.	2.1	3
349	Improved coupled-mode analysis of nonlinear distributed feedback structures. <i>Optical and Quantum Electronics</i> , 1991, 23, 633-637.	3.3	3
350	Integrated Bragg reflectors in polymeric channel waveguides. <i>Optics Communications</i> , 1992, 94, 326-330.	2.1	3
351	Near-infrared photodetectors based on polycrystalline Ge evaporated on Si(100) substrates. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 2000, 80, 791-797.	0.6	3
352	Monolithic and hybrid near infrared detection and imaging based on poly-Ge photodiode arrays. <i>Optical Materials</i> , 2005, 27, 1079-1083.	3.6	3
353	Frequency doubling in surface periodically poled lithium niobate waveguides: competing effects. , 2007, , .		3
354	Compensating group-velocity mismatch in parametric frequency generation. <i>Optics Letters</i> , 2007, 32, 2921.	3.3	3
355	Ultraviolet quasi-phase-matched second harmonic generation in surface periodically poled lithium niobate optical waveguides. <i>Laser Physics</i> , 2007, 17, 884-888.	1.2	3
356	Germanium on Glass: A Novel Platform for Light-Sensing Devices. <i>IEEE Photonics Journal</i> , 2010, 2, 686-695.	2.0	3
357	Mechanical analogies for nonlinear light beams in nonlocal nematic liquid crystals. <i>Journal of Nonlinear Optical Physics and Materials</i> , 2018, 27, 1850046.	1.8	3
358	Light Confinement with Structured Beams in Gold Nanoparticle Suspensions. <i>Photonics</i> , 2021, 8, 221.	2.0	3
359	Spatiospectral features of a soliton-assisted random laser in liquid crystals. <i>Optics Letters</i> , 2019, 44, 3574.	3.3	3
360	Multiple switching and fast effects in nonlinear prism coupling to sharp-cut filter glass waveguides. <i>Journal Physics D: Applied Physics</i> , 1988, 21, S164-S166.	2.8	2

#	ARTICLE	IF	CITATIONS
361	16-pixel linear array of near-infrared photodetectors in polycrystalline Ge on Si. Electronics Letters, 1998, 34, 1968.	1.0	2
362	Germanium Photodetectors for Silicon Microphotonics by Direct Epitaxy on Silicon. Materials Research Society Symposia Proceedings, 1999, 607, 279.	0.1	2
363	Wavelength stabilization of semiconductor lasers with a tunable photodetector. Applied Physics Letters, 2002, 80, 3039-3041.	3.3	2
364	Transient-mode excitation, terahertz generation and wavelength shifting in a photonic band gap. Applied Physics B: Lasers and Optics, 2005, 81, 415-420.	2.2	2
365	Spectral evolution of an optical pattern in non local nematic liquid crystals. Optics Express, 2005, 13, 6476.	3.4	2
366	Nematicon Self-Steering. Molecular Crystals and Liquid Crystals, 2011, 549, 1-9.	0.9	2
367	TRANSVERSE SELF-ACCELERATION OF NEMATICONS: CAN A SELF-CONFINED BEAM CHANGE ITS OWN PATH?. Journal of Nonlinear Optical Physics and Materials, 2011, 20, 237-247.	1.8	2
368	Tunable Nonlinearity in Nematicon Physics. Molecular Crystals and Liquid Crystals, 2012, 558, 2-11.	0.9	2
369	Frequency-Controlled Routing of Self-Confined Beams in Nematic Liquid Crystals. Molecular Crystals and Liquid Crystals, 2013, 573, 26-33.	0.9	2
370	Interactions of Self-Localised Optical Wavepackets in Reorientational Soft Matter. Applied Sciences (Switzerland), 2022, 12, 2607.	2.5	2
371	Nonlinear Phase Shifts Using Second Order Nonlinearities. Optics and Photonics News, 1992, 3, 11.	0.5	1
372	Second Harmonic Generation: Toward an All-Optical Transistor. Optics and Photonics News, 1995, 6, 13.	0.5	1
373	Three-Wave Simultons. Journal of Nonlinear Optical Physics and Materials, 1998, 07, 345-368.	1.8	1
374	Metal-Semiconductor-Metal Near Infrared Light Detector Based on Epitaxial Ge on Si. , 0, , .		1
375	QUADRATIC SIMULTONS IN LINEAR AND NONLINEAR PHOTONIC BANDGAPS. Journal of Nonlinear Optical Physics and Materials, 2001, 10, 197-208.	1.8	1
376	Introduction to the Issue on Nonlinear Optics. IEEE Journal of Selected Topics in Quantum Electronics, 2006, 12, 337-338.	2.9	1
377	Nanopatterned Ferroelectric Crystals for Parametric Generation. , 2006, , .		1
378	Nematicons in Liquid Crystal Light Valves. Molecular Crystals and Liquid Crystals, 2010, 527, 98/[254]-108/[264].	0.9	1

#	ARTICLE	IF	CITATIONS
379	Germanium-on-glass solar cells. , 2011, , .		1
380	Efficient pulse compression and frequency conversion of phase-modulated laser pulses in engineered quasi-phase-matching gratings. Physics of Wave Phenomena, 2011, 19, 107-111.	1.1	1
381	Nonlinear pulse compression by the second-harmonic generation in quasiphase and group-velocity matched samples. Journal of Russian Laser Research, 2011, 32, 41.	0.6	1
382	Optical power monitors in Ge monolithically integrated on SOI chips. Microelectronic Engineering, 2011, 88, 514-517.	2.4	1
383	TCAD simulation of thermally evaporated germanium. Physica Status Solidi C: Current Topics in Solid State Physics, 2014, 11, 69-72.	0.8	1
384	Bistable Beam Propagation in Liquid Crystals. IEEE Journal of Quantum Electronics, 2017, 53, 1-11.	1.9	1
385	Near-infrared photodetectors based on polycrystalline Ge evaporated on Si $\langle 100 \rangle$ substrates. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 2000, 80, 791-797.	0.6	1
386	Energy Localization Through Bragg Gratings in Quadratic Media for Second Harmonic Generation. Acta Physica Polonica A, 1999, 95, 719-726.	0.5	1
387	Electro-optic steering of random laser emission in liquid crystals. Photonics Letters of Poland, 2018, 10, 103.	0.4	1
388	Ti-indiffused LiNbO ₃ optical waveguides: A range of different technologies. Materials Chemistry and Physics, 1989, 23, 408-415.	4.0	0
389	Observation of laser-induced parallel ridges in Y-cut lithium niobate crystals. Journal of Materials Science Letters, 1989, 8, 971-973.	0.5	0
390	A solid-state near infrared spectrum analyzer based on polycrystalline Ge on Si. Materials Science in Semiconductor Processing, 2000, 3, 545-549.	4.0	0
391	Light self-confinement in planar cells containing nematic liquid crystals. , 0, , .		0
392	Incoherent spatial solitons in nematic liquid crystals. , 0, , .		0
393	Light-confinement, accessible spatial solitons and their interactions via nonlocal reorientation in nematic liquid crystals. , 0, , .		0
394	Nonlocal optical solitons in liquid crystals. , 0, , .		0
395	Observation of spatial optical solitons in nonlinearly coupled waveguides. , 2003, , .		0
396	Modulation instability and multisoliton generation in nematic liquid crystals. , 0, , .		0

#	ARTICLE	IF	CITATIONS
397	Bi-colour spatial solitons in linearly uncoupled planar waveguides. Journal of Optics B: Quantum and Semiclassical Optics, 2004, 6, S217-S222.	1.4	0
398	Discrete solitons in nematic liquid crystals. , 0, , .		0
399	Anisotropic spatial solitons and their routing in nematic liquid crystals. , 0, , .		0
400	All-optical switching with a nematic coherent mixer. , 0, , .		0
401	Incoherent spatial solitons in nematic liquid crystals. , 0, , .		0
402	Ab-initio simulations of backward second harmonic generation in. , 0, , .		0
403	Polycrystalline Germanium on Silicon for Near Infrared Detectors. ECS Transactions, 2006, 3, 779-780.	0.5	0
404	Surface Periodic domain engineering in congruent lithium tantalate crystals. , 2006, , .		0
405	Quadratic solitons in 2D nonlinear photonic crystals. , 2007, , .		0
406	Second-harmonic pulse shaping with engineered quasi-phase-matching gratings in the strongly depleted pump regime. , 2007, , .		0
407	Parametric Solitons in Nonlinear Photonic Crystals. Conference Proceedings - Lasers and Electro-Optics Society Annual Meeting-LEOS, 2007, , .	0.0	0
408	Nonlinear control of soliton spiraling. Conference Proceedings - Lasers and Electro-Optics Society Annual Meeting-LEOS, 2007, , .	0.0	0
409	Stable two-dimensional spatial solitons in heavy metal oxide glasses. , 2007, , .		0
410	Nonlinear controlling the angular momentum of a solitary wave cluster. , 2007, , .		0
411	Light self-confinement via second harmonic generation in a 2D nonlinear photonic crystal waveguide. , 2007, , .		0
412	Refraction and Total Internal Reflection of Nematicons at a voltage controlled dielectric interface. , 2007, , .		0
413	Nonlinear Goos-Hanchen shift of Nematicons at a bias-controlled dielectric interface. , 2007, , .		0
414	Nonlinear bouncing of nematicons at the boundaries. , 2008, , .		0

#	ARTICLE	IF	CITATIONS
415	Non-linear control of soliton spiraling in nematic liquid crystals. , 2008, , .		0
416	Spatial solitons and their deflection in liquid crystals. , 2008, , .		0
417	A novel approach to distributed feedback in liquid crystals. , 2009, , .		0
418	Interacting solitons in a high index glass. , 2009, , .		0
419	Tunable self-focusing and self-steering of nematicons. , 2011, , .		0
420	Solar cells by Germanium layer transfer on glass. , 2011, , .		0
421	Spatial solitons carrying phase singularities in nematic liquid crystals. , 2011, , .		0
422	Vortex solitons and charge flipping in nematic liquid crystals. , 2011, , .		0
423	Multimode waveguides in nematic liquid crystals. , 2011, , .		0
424	Dark Spatial Solitons in Liquid Crystals. Molecular Crystals and Liquid Crystals, 2012, 558, 168-175.	0.9	0
425	Electro-optic routing of spatial solitons in Nematic Liquid Crystals. , 2013, , .		0
426	Optical roadblock detector operating in the near infrared. Electronics Letters, 2013, 49, 338-340.	1.0	0
427	Light Self-Localization and Power-Dependent Steering in Anisotropic Dielectrics: Spatial Solitons in Uniaxial Nematic Liquid Crystals. Progress in Optical Science and Photonics, 2013, , 27-47.	0.5	0
428	Comments on "Nonlinear refractive index induced collision and propagation of nematicons" by L. Kavitha, M. Venkatesh, S. Dhamayanthi and D. Gopi. Journal of Molecular Liquids, 2014, 199, 481-482.	4.9	0
429	Comments on "Breather-like director reorientations in a nematic liquid crystal with nonlocal nonlinearity" by L. Kavitha, M. Venkatesh and D. Gopi. Wave Motion, 2014, 51, 865-866.	2.0	0
430	Observation of Beam Self-Induced Transition from Positive to Negative Optical Refraction in Nematic Liquid Crystals. Molecular Crystals and Liquid Crystals, 2015, 619, 28-34.	0.9	0
431	Nonlinear guided waves: Preface. Journal of Nonlinear Optical Physics and Materials, 2016, 25, 1650041.	1.8	0
432	Nematicon-enhanced spontaneous symmetry breaking. Molecular Crystals and Liquid Crystals, 2017, 649, 59-65.	0.9	0

#	ARTICLE	IF	CITATIONS
433	Reply to "Comment on "Spatial optical solitons in highly nonlocal media". Physical Review A, 2017, 95, .	2.5	0
434	Waveguiding based upon geometric phase. , 2017, , .		0
435	Freezing nematicons via photo-polymerization. , 2017, , .		0
436	10.1063/5.0041198.1. , 2021, , .		0
437	Nonlinear Optical Waves in Liquid Crystalline Lattices. Springer Series in Optical Sciences, 2010, , 21-35.	0.7	0
438	Bistable optical propagation in nematic liquid crystals. , 2014, , .		0
439	Soliton-assisted random lasing in liquid crystals. , 2016, , .		0
440	Nonperturbative Nonlinear Optics in Liquid Crystals. , 2016, , .		0
441	Nematicons: fundamentals and advances. , 2017, , .		0
442	Directional random laser by combining cavity-less lasing and spatial solitons in liquid crystals. , 2018, , .		0
443	Special Issue on Light Beams in Liquid Crystals. Applied Sciences (Switzerland), 2022, 12, 3668.	2.5	0