Mercedes Carrascosa

List of Publications by Year
in descending order

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		172386	276775
170	2,578	29	41
papers	citations	h-index	g-index

170	170	170	950
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Hydrogen in lithium niobate. Advances in Physics, 1996, 45, 349-392.	35.9	165
2	Theoretical modeling of the fixing and developing of holographic gratings in LiNbO_3. Journal of the Optical Society of America B: Optical Physics, 1990, 7, 2317.	0.9	89
3	LiNbO3: A photovoltaic substrate for massive parallel manipulation and patterning of nano-objects. Applied Physics Reviews, 2015, 2, .	5.5	76
4	Monte Carlo simulation of the performance of PMMA luminescent solar collectors. Applied Optics, 1983, 22, 3236.	2.1	69
5	Photovoltaic versus optical tweezers. Optics Express, 2011, 19, 24320.	1.7	55
6	Biological applications of ferroelectric materials. Applied Physics Reviews, 2018, 5, .	5.5	55
7	Nonlinear optical waveguides generated in lithium niobate by swift-ion irradiation at ultralow fluences. Optics Letters, 2007, 32, 2587.	1.7	52
8	Study of developing thermal fixed holograms in lithium niobate. Journal of the Optical Society of America B: Optical Physics, 2000, 17, 1140.	0.9	51
9	Effect of the oxidation state and hydrogen concentration on the lifetime of thermally fixed holograms inLiNbO3:Fe. Physical Review B, 2002, 65, .	1.1	46
10	Determination of H concentration in LiNbO3by photorefractive fixing. Applied Physics Letters, 1992, 60, 3212-3214.	1.5	42
11	Efficient photo-induced dielectrophoretic particle trapping on Fe:LiNbO_3 for arbitrary two dimensional patterning. Optical Materials Express, 2015, 5, 1137.	1.6	42
12	Recent Achievements on Photovoltaic Optoelectronic Tweezers Based on Lithium Niobate. Crystals, 2018, 8, 65.	1.0	42
13	Understanding light intensity thresholds for catastrophic optical damage in LiNbO_3. Optics Express, 2008, 16, 115.	1.7	40
14	Steady-state photorefractive gratings in LiNbO/sub 3/ for strong light modulation depths. IEEE Journal of Quantum Electronics, 1994, 30, 875-880.	1.0	39
15	Kinetics for optical erasure of sinusoidal holographic gratings in photorefractive materials. IEEE Journal of Quantum Electronics, 1986, 22, 1369-1375.	1.0	38
16	Photorefractive fixing and related thermal effects in LiNbO3. Journal of Physics Condensed Matter, 1991, 3, 5399-5406.	0.7	35
17	Recording and erasure kinetics in photorefractive materials at large modulation depths. Journal of the Optical Society of America B: Optical Physics, 1994, 11, 670.	0.9	34
18	Buried amorphous layers by electronic excitation in ion-beam irradiated lithium niobate: Structure and kinetics. Journal of Applied Physics, 2007, 101, 033512.	1.1	34

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19	Novel optical waveguides by in-depth controlled electronic damage with swift ions. Nuclear Instruments & Methods in Physics Research B, 2007, 257, 765-770.	0.6	34
20	Optoelectronic tweezers under arbitrary illumination patterns: theoretical simulations and comparison to experiment. Optics Express, 2014, 22, 29099.	1.7	34
21	Theory of high-temperature photorefractive phenomena inLiNbO3crystals and applications to experiment. Physical Review B, 1998, 57, 12792-12805.	1.1	33
22	Optimization of selective erasure in photorefractive memories. Journal of the Optical Society of America B: Optical Physics, 1997, 14, 110.	0.9	32
23	Superlinear photovoltaic currents in LiNbO3: analyses under the two-center model. Applied Physics B: Lasers and Optics, 2004, 79, 351-358.	1.1	32
24	Highâ€temperature photorefractive effects in LiNbO3:Fe. Journal of Applied Physics, 1993, 73, 2709-2713.	1.1	31
25	Optical damage inhibition and thresholding effects in lithium niobate above room temperature. Optics Communications, 2000, 178, 211-216.	1.0	31
26	Light-induced charge transport in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>LiNbO</mml:mtext></mml:mrow><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math> Physical Review B, 2008, 78, .	1.1	31
27	Lifetimes of thermally fixed holograms in LiNbO_3:Fe crystals. Optics Letters, 1998, 23, 960.	1.7	30
28	Trapping and patterning of biological objects using photovoltaic tweezers. Applied Physics Letters, 2016, 108, .	1.5	30
29	Optoelectronic Manipulation, Trapping, Splitting, and Merging of Water Droplets and Aqueous Biodroplets Based on the Bulk Photovoltaic Effect. Physical Review Applied, 2020, 14, .	1.5	30
30	Erasure kinetics and spectral dependence of the photorefractive effect in Fe:LiNbO_3. Journal of the Optical Society of America B: Optical Physics, 1987, 4, 309.	0.9	29
31	Erasure of holographic gratings in photorefractive materials with two active species. Applied Optics, 1988, 27, 2851.	2.1	29
32	Singular Behavior of Light-Induced Space Charge in Photorefractive Media under an ac Field. Physical Review Letters, 2000, 84, 3839-3842.	2.9	28
33	Role of particle anisotropy and deposition method on the patterning of nano-objects by the photovoltaic effect in LiNbO3. Optical Materials, 2013, 35, 1700-1705.	1.7	27
34	Massive ordering and alignment of cylindrical micro-objects by photovoltaic optoelectronic tweezers. Optics Letters, 2018, 43, 30.	1.7	27
35	Outdoor evaluation of luminescent solar concentrator prototypes. Applied Optics, 1985, 24, 2028.	2.1	26
36	Analytical and numerical study of photorefractive kinetics at high modulation depths. Journal of the Optical Society of America B: Optical Physics, 1996, 13, 2587.	0.9	26

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37	Tumour cell death induced by the bulk photovoltaic effect of LiNbO3:Fe under visible light irradiation. Photochemical and Photobiological Sciences, 2011, 10, 956-963.	1.6	26
38	Isotropic versus anisotropic modeling of photorefractive solitons. Physical Review E, 2002, 65, 066610.	0.8	25
39	Diffractive optical devices produced by light-assisted trapping of nanoparticles. Optics Letters, 2016, 41, 432.	1.7	25
40	Site correlation effects in the dynamics of iron impuritiesFe2+âˆ•Fe3+and antisite defectsNbLi4+âˆ•NbLi5+after a short-pulse excitation inLiNbO3. Physical Review B, 2005, 72, .	1.1	24
41	Analysis of photorefractive optical damage in lithium niobate: application to planar waveguides. Optics Express, 2010, 18, 20852.	1.7	24
42	Electrophoretic Versus Dielectrophoretic Nanoparticle Patterning Using Optoelectronic Tweezers. Physical Review Applied, 2017, 7, .	1.5	24
43	Role of physical parameters on the photorefractive performance of semiconductor multiple quantum wells. Journal of the Optical Society of America B: Optical Physics, 1994, 11, 1651.	0.9	23
44	Optimization of particle trapping and patterning via photovoltaic tweezers: role of light modulation and particle size. Journal Physics D: Applied Physics, 2014, 47, 265101.	1.3	22
45	Holographic recording in photorefractive thin films: Edge effects. Journal of Applied Physics, 1995, 78, 4840-4844.	1.1	21
46	Photorefractive charge compensation in Î±-phase proton-exchanged LiNbO_3 waveguides. Journal of the Optical Society of America B: Optical Physics, 2000, 17, 1412.	0.9	21
47	Photorefractive response and optical damage of LiNbO3 optical waveguides produced by swift heavy ion irradiation. Applied Physics B: Lasers and Optics, 2009, 95, 429-433.	1.1	21
48	Realâ€Time Operation of Photovoltaic Optoelectronic Tweezers: New Strategies for Massive Nanoâ€object Manipulation and Reconfigurable Patterning. Particle and Particle Systems Characterization, 2019, 36, 1900233.	1.2	21
49	Time evolution of photovoltaic fields generated by arbitrary light patterns in z-cut LiNbO₃:Fe: application to optoelectronic nanoparticle manipulation. Optics Express, 2020, 28, 18085.	1.7	21
50	Experimental effects of light intensity modulation on the recording and erasure of holographic gratins in BSO crystals. Optics Communications, 1993, 103, 22-28.	1.0	20
51	Synergy between pyroelectric and photovoltaic effects for optoelectronic nanoparticle manipulation. Optics Express, 2019, 27, 804.	1.7	20
52	Optoelectronic generation of bio-aqueous femto-droplets based on the bulk photovoltaic effect. Optics Letters, 2020, 45, 1164.	1.7	19
53	Optical damage in x-cut proton exchanged LiNbO3 planar waveguides. Journal of Applied Physics, 2006, 100, 093103.	1.1	18
54	Time evolution of grating decay during photorefractive fixing processes in LiNbO3. Journal of Applied Physics, 1995, 77, 308-312.	1.1	17

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55	Effects of strong modulation on beam-coupling gain in photorefractive materials: application to B 12 SiO 20. Journal of the Optical Society of America B: Optical Physics, 1998, 15, 2092.	0.9	17
56	Nearly 100% diffraction efficiency fixed holograms in oxidized iron-doped LiNbO3 crystals using self-stabilized recording technique. Optics Communications, 2005, 247, 39-48.	1.0	17
57	Nonperturbative analytical solution for steady-state photorefractive recording. Optics Letters, 1995, 20, 1910.	1.7	16
58	Particle trapping and structuring on the surface of LiNbO_3:Fe optical waveguides using photovoltaic fields. Optics Letters, 2014, 39, 649.	1.7	16
59	Comparative theoretical analysis between parallel and perpendicular geometries for 2D particle patterning in photovoltaic ferroelectric substrates. Journal of the European Optical Society-Rapid Publications, 2015, 10, 15026.	0.9	16
60	Edge effect on luminescent solar concentrators. Solar Cells, 1985, 15, 225-230.	0.6	15
61	Temporal evolution of the physical response during photorefractive grating formation and erasure for BSO. Journal of Applied Physics, 1995, 78, 5686-5690.	1.1	15
62	Quasisteady space-charge fields in photorefractive multiple quantum wells: Edge effects. Physical Review B, 1997, 55, 5226-5234.	1.1	15
63	Solitonlike Beam Propagation along Light-Induced Singularity of Space Charge in Fast Photorefractive Media. Physical Review Letters, 2002, 89, 033902.	2.9	15
64	Optimization of the developing stage for fixed gratings in LiNbO3. Optics Communications, 1996, 126, 240-246.	1.0	14
65	Locality vs. nonlocality of (2+1)-dimensional light-induced space-charge field in photorefractive crystals. Europhysics Letters, 2002, 60, 847-853.	0.7	14
66	Analysis and optimization of propagation losses in LiNbO3 optical waveguides produced by swift heavy-ion irradiation. Applied Physics B: Lasers and Optics, 2012, 107, 157-162.	1.1	14
67	Plasmonic Enhancement in the Fluorescence of Organic and Biological Molecules by Photovoltaic Tweezing Assembly. Advanced Materials Technologies, 2017, 2, 1700024.	3.0	14
68	Steady holographic gratings formed in photorefractive materials: influence of material parameters. IEEE Journal of Quantum Electronics, 1991, 27, 509-515.	1.0	13
69	Superlinear photovoltaic currents in proton-exchanged LiNbO3 waveguides. Applied Physics B: Lasers and Optics, 2003, 76, 555-559.	1.1	13
70	Two-dimensional soliton-induced refractive index change in photorefractive crystals. Optics Communications, 2003, 227, 193-202.	1.0	13
71	Holographic phase-shift measurement during development of a fixed grating in lithium niobate crystals. Optics Letters, 2003, 28, 1040.	1.7	13
72	Self-stabilized holographic recording in reduced and oxidized lithium niobate crystals. Optics Communications, 2004, 229, 371-380.	1.0	13

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73	Optical damage control via the Fe^2+/Fe^3+ ratio in proton-exchanged LiNbO_3 waveguides. Optics Letters, 2007, 32, 2294.	1.7	13
74	Periodic poling of optical waveguides produced by swift-heavy-ion irradiation in LiNbO3. Applied Physics B: Lasers and Optics, 2009, 95, 435-439.	1.1	13
75	On macroscopic description of photorefractive phenomena. Applied Physics B: Lasers and Optics, 1999, 68, 1013-1020.	1.1	12
76	Tailoring of refractive index profiles in LiNbO₃optical waveguides by low-fluence swift-ion irradiation. Journal Physics D: Applied Physics, 2007, 40, 4454-4459.	1.3	12
77	Short-time photorefractive recording in multiple quantum wells: longitudinal geometry. Journal of the Optical Society of America B: Optical Physics, 1996, 13, 2630.	0.9	11
78	Steady holographic gratings in semiconductor multiple quantum wells. Applied Physics A: Solids and Surfaces, 1992, 55, 25-29.	1.4	10
79	Subharmonic instability taking into account higher harmonics. Applied Physics Letters, 1994, 64, 658-660.	1.5	10
80	Grating translation technique for vectorial beam coupling and its applications to linear signal detection. Journal of the Optical Society of America B: Optical Physics, 2002, 19, 1564.	0.9	10
81	Fixed holograms in iron-doped lithium niobate: simultaneous self-stabilized recording and compensation. Applied Optics, 2007, 46, 227.	2.1	10
82	Correlation between photorefractive index changes and optical damage thresholds in z-cut proton-exchanged-LiNbO_3 waveguides. Optics Express, 2009, 17, 658.	1.7	10
83	Optical Waveguides Fabricated by Ion Implantation/Irradiation: A Review Optical Waveguides Fabricated by Ion Implantation/Irradiation: A Review. , 0, , .		10
84	Time evolution of the photorefractive phase conjugation process in BaTiO3. Optics Communications, 1996, 131, 211-218.	1.0	9
85	Light-intensity measurements in optical waveguides using prism couplers. Journal of Applied Physics, 2007, 102, 074509.	1.1	9
86	Droplet Ejection and Liquid Jetting by Visible Laser Irradiation in Pyroâ€Photovoltaic Feâ€Doped LiNbO₃ Platforms. Advanced Materials Interfaces, 2021, 8, 2101164.	1.9	9
87	Photorefractive thin films. Journal of Optics, 1996, 5, 495-503.	0.5	8
88	Two kinetic regimes for high-temperature photorefractive phenomena in LiNbO_3. Journal of the Optical Society of America B: Optical Physics, 1998, 15, 148.	0.9	8
89	Linear electroabsorption in semi-insulating GaAs/AlGaAs asymmetric double quantum wells. Journal of Applied Physics, 1999, 86, 3822-3825.	1.1	8
90	Pyroelectric Trapping and Arrangement of Nanoparticles in Lithium Niobate Opposite Domain Structures. Journal of Physical Chemistry C, 2016, 120, 731-736.	1.5	8

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91	Selective developing and screening of fixed photorefractive holograms. Optics Communications, 1998, 151, 257-262.	1.0	7
92	Linear phase demodulation in photorefractive crystals with nonlocal response. Journal of Applied Physics, 2001, 90, 3135-3141.	1.1	7
93	Optoelectronic manipulation of bio-droplets containing cells or macromolecules by active ferroelectric platforms. Biomedical Optics Express, 2021, 12, 6601.	1.5	7
94	Light and Thermally Induced Charge Transfer and Ejection of Microâ€ Nanoparticles from Ferroelectric Crystal Surfaces. Advanced Electronic Materials, 2022, 8, .	2.6	7
95	Role of photovoltaic drift on the initial writing and erasure rates of holographic gratings: Some implications. Optics Communications, 1988, 69, 83-86.	1.0	6
96	Numerical simulation of the time evolution of photorefractive phase conjugate beams: Multigrating operation. Optical Materials, 1995, 4, 326-329.	1.7	6
97	Nonlinear generation of higher-order combinational gratings during sequential recording in LiNbO_3. Journal of the Optical Society of America B: Optical Physics, 1999, 16, 1658.	0.9	6
98	Parametric scattering processes in photorefractive periodically poled lithium niobate. Journal of the Optical Society of America B: Optical Physics, 2002, 19, 1582.	0.9	6
99	Photorefractive fixing phenomena in alpha-phase proton-exchanged LiNbO3 waveguides. Journal of the Optical Society of America B: Optical Physics, 2005, 22, 2229.	0.9	6
100	Effect of local rotations on the optical response of LiNbO 3 : Application to ion-beam damage. Europhysics Letters, 2006, 76, 1123-1129.	0.7	6
101	Photorefractive non-linear single beam propagation in LiNbO3 waveguides above the optical damage threshold. Optical Materials, 2010, 33, 103-106.	1.7	6
102	Effect of light phase-shifts on photorefractive kinetics: linear regime. Optical Materials, 1995, 4, 304-307.	1.7	5
103	Optimization of photorefractive recording by means of light phase-shifts. Optics Communications, 1995, 116, 398-404.	1.0	5
104	Effects of light modulation on grating phase shifts in photorefractive recording. Optics Communications, 1997, 139, 81-84.	1.0	5
105	An alternative design strategy for thin photorefractive polymer structures. Advanced Materials, 1997, 9, 423-426.	11.1	5
106	Calculation of beam-coupling gain and fringe bending in the photorefractive material bismuth silicon oxide under electric fields and strong modulations. Physical Review B, 1998, 58, 9591-9594.	1.1	5
107	Nonlinear grating interactions in multibeam photorefractive recording: theoretical investigation. Journal of the Optical Society of America B: Optical Physics, 1999, 16, 414.	0.9	5
108	Effect of domain structure fluctuations on the photorefractive response of periodically poled lithium niobate. Physical Review B, 2000, 62, 13182-13187.	1.1	5

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109	Photorefractive gratings generated by band-gap excitation: Application to KNbO3. Applied Physics B: Lasers and Optics, 2001, 72, 697-700.	1.1	5
110	Determination of proton diffusion anisotropy by thermal decay of fixed holograms with K-vector perpendicular to the c-axis in LiNbO3:Fe. Applied Physics B: Lasers and Optics, 2005, 80, 351-354.	1.1	5
111	Fundamentals of Photorefractive Phenomena. , 2006, , 43-82.		5
112	Light intensity dependence of holographic response and dark decays in Î±-phase PE:LiNbO‹sub›3‹/sub›waveguides. Journal of Optics, 2008, 10, 104008.	1.5	5
113	Fabrication of Periodically Poled Swift Ion-irradiation Waveguides in LiNbO3. Ferroelectrics, 2009, 390, 29-35.	0.3	5
114	Low loss optical waveguides fabricated in LiTaO3 by swift heavy ion irradiation. Optics Express, 2019, 27, 8696.	1.7	5
115	Lambert emitters: a simple Monte-Carlo approach to optical diffusers. European Journal of Physics, 1985, 6, 183-187.	0.3	4
116	Effects of light phase-shifts on photorefractive kinetics: Computer simulations. Optical Materials, 1995, 4, 461-465.	1.7	4
117	Dark developing of photorefractive proton-exchanged LiNbO3 waveguides. Optical Materials, 2001, 18, 111-114.	1.7	4
118	Electric field periodical poling of lithium niobate crystals after soft-proton-exchanged waveguide fabrication. Applied Physics B: Lasers and Optics, 2007, 88, 75-78.	1.1	4
119	Photorefractive phase conjugation of an image field: fidelity analysis. Optics Communications, 1992, 91, 481-488.	1.0	3
120	Time evolution of photorefractive fixing processes in LiNbO3. Optical Materials, 1995, 4, 290-293.	1.7	3
121	Nonlinear cross talk between gratings recorded in BaTiO3 by mutually incoherent beam pairs. Journal of Applied Physics, 2000, 88, 5527-5533.	1.1	3
122	Spatial frequency mixing by nonlinear charge transport in photorefractive materials. Physical Review B, 2002, 65, .	1.1	3
123	Twelve-fold increase of diffraction efficiency of thermally fixed holograms in Bi12SiO20. Journal of Applied Physics, 2005, 97, 073505.	1.1	3
124	Photorefractive Î± -Phase Proton-Exchanged LiNbO3Waveguides Prepared on Iron Doped Substrates. Ferroelectrics, 2007, 352, 86-93.	0.3	3
125	Characterization and inhibition of photorefractive optical damage of swift heavy ion irradiation waveguides in LiNbO_3. Journal of the Optical Society of America B: Optical Physics, 2012, 29, 3000.	0.9	3
126	Nanoparticle manipulation and trapping by the synergy between the photovoltaic and pyroelectric effects. Journal of Physics: Conference Series, 2017, 867, 012038.	0.3	3

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127	Nonlinear mixing of spatial frequencies in photorefractive thermal fixing of holograms in LiNbO3. Optical Materials, 2001, 18, 115-118.	1.7	2
128	Transition from local to nonlocal photorefractive nonlinearity on increasing spatial dimensionality. Optics Communications, 2004, 233, 439-444.	1.0	2
129	Comparative study of optical damage and photovoltaic currents in planar LiNbO 3 waveguides. , 2005, , .		2
130	Thermal Fixing of Photoinduced Gratings. , 2006, , 369-396.		2
131	Photovoltaic tweezers an emergent tool for applications in nano and bio-technology. Proceedings of SPIE, 2015, , .	0.8	2
132	Long-Lifetime Photorefractive Holographic Devices via Thermal Fixing Methods. , 2003, , 91-112.		2
133	Photorefractive effect and nonlinear susceptibilities. Optical Materials, 1996, 5, 187-192.	1.7	1
134	Model for multiwave-pumped parametric oscillation in BaTiO 3. Applied Physics B: Lasers and Optics, 1998, 66, 347-354.	1.1	1
135	Influence of multigrating operation on the generation of phase-conjugate beams by four-wave mixing. Journal of the Optical Society of America B: Optical Physics, 1998, 15, 2037.	0.9	1
136	Light Intensity Effects in Photorefractive Î±-Phase PE-LiNbO[sub 3] Waveguides. AIP Conference Proceedings, 2008, , .	0.3	1
137	Mach-Zehnder Method for Optical Damage Characterization of Planar Waveguides. Ferroelectrics, 2009, 390, 41-47.	0.3	1
138	The Domain Kinetics in Congruent Lithium Niobate Modified by Low and High Energy Ion Irradiation. Ferroelectrics, 2012, 441, 17-24.	0.3	1
139	Near Field Optical Microscopy in Periodically Poled LiNbO3and LiTaO3Superlattices. Ferroelectrics, 2014, 467, 6-12.	0.3	1
140	Nonlinear optical waveguides fabricated in Mg-doped LiNbO3 by swift heavy ion irradiation: anomalous photorefractive damage behavior. Applied Physics B: Lasers and Optics, 2014, 116, 507-514.	1.1	1
141	Optoelectronic tweezers based on photorefractive space charge fields: recent achievements and challenges. Journal of Physics: Conference Series, 2017, 867, 012030.	0.3	1
142	Nanoparticle Gratings for Compact Spectrometers: an Application of Photovoltaic Tweezers. Journal of Physics: Conference Series, 2017, 867, 012032.	0.3	1
143	Holographic infrared wavelength deflector in Î±-phase proton-exchanged LiNbO3 waveguides. , 2003, , .		1
144	Non-linear and photorefractive characterisation of highly confined LiNbO3 waveguides prepared by high-energy, low-fluence ion irradiation. , 2005, , .		1

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145	Analysis of Single Beam Propagation in Photorefractive Media under an AC field. , 2001, , 482.		0
146	Bipolar two-dimensional analysis of grating dynamics in photorefractive thin films. Journal of Optics, 2001, 3, 413-420.	1.5	0
147	Conductivity phenomena affecting fixed filters in photorefractive PE:LiNbO3 waveguides. , 2003, , .		0
148	Self-trapping along light-induced singularity of space charge in fast photorefractive materials. , 2003, 4829, 939.		0
149	Second Order Susceptibilities and Electro-Optic Coefficients of ZN-Indiffused LiNbO3Waveguides. Ferroelectrics, 2007, 352, 164-170.	0.3	0
150	Influence of the Geometrical Configuration on Optical Damage of LiNbO₃Planar Waveguides. Ferroelectrics, 2009, 390, 36-40.	0.3	0
151	Single Mode LiNbO₃Waveguides at 4.7 Î¼m by Proton Exchange: Addressing the Atmospheric M-Band. Ferroelectrics, 2009, 390, 48-54.	0.3	0
152	Photovoltaic laser beam degradation in lithium niobate planar waveguides: two-center model approach. Journal of the Optical Society of America B: Optical Physics, 2014, 31, 919.	0.9	0
153	Bio-droplet manipulation and characterization by ferroelectric photovoltaic platforms. , 2021, , .		0
154	Linear phase-to-intensity transformation in crystals with non-local photorefractive response. , 2001, , .		0
155	Nonlinear effects in thermal fixing of photorefractive holograms: harmonics and combinational gratings. , 2001, , .		0
156	Photorefractive response and parametric scattering processes in periodically poled lithium niobate. , 2001, , .		0
157	Properties of fixed holographic gratings with K-vector perpendicular to the c-axis in LiNbO3:Fe crystals. , 2003, , .		0
158	New Photorefractive Phenomena under ac Fields at High Illumination Contrasts. , 2003, , .		0
159	High temperature photorefractive effects in Î±-phase proton-exchanged LiNbO3 waveguides. , 2003, , .		0
160	Electronic grating phase shift during development of a fixed grating in oxidized lithium niobate crystal. , 2003, , .		0
161	Optical damage and photovoltaic current in proton-exchanged LiNbO3 waveguides. , 2003, , .		0
162	Short-pulse light excitation of LiNbO3 : Hopping versus coherent band transport analysis. , 2005, , .		0

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163	Simultaneous photorefractive recording and fixing in lithium niobate crystals using self-stabilized techniques: effect of the iron reduction state. , 2005, , .		0
164	Photorefractive Response and Optical Damage Control in Proton Exchanged LiNbO3 Waveguides Via Proton Exchange Time. , 2007, , .		0
165	Photorefractive nonlinear propagation of single beams in undoped LiNbO3: Self-defocusing and beam break-up. , 2010, , .		0
166	Time evolution of photorefractive fixing processes in LiNbO3. European Materials Research Society Symposia Proceedings, 1995, 48, 290-293.	0.0	0
167	Photorefractive behavior of Î±-phase proton-exchanged LiNbO3 waveguides. , 1999, , .		0
168	Thin film and Boundary Effects on Photorefractive Recording. , 1999, , .		0
169	Experimental observation of nonlinear grating cross talk in multibeam photorefractive recording. , 1999, , .		0
170	Optoelectronic generation of bio-aqueous femto-droplets based on the bulk photovoltaic effect. Optics Letters, 2020, 45, 1164.	1.7	0