

# Mercedes Carrascosa

## List of Publications by Citations

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149  
papers

2,106  
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26  
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170  
ext. papers

2,376  
ext. citations

2.9  
avg, IF

4.55  
L-index

#	Paper	IF	Citations
149	Hydrogen in lithium niobate. <i>Advances in Physics</i> , <b>1996</b> , 45, 349-392	18.4	143
148	Theoretical modeling of the fixing and developing of holographic gratings in LiNbO <sub>3</sub> . <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>1990</b> , 7, 2317	1.7	71
147	LiNbO <sub>3</sub> : A photovoltaic substrate for massive parallel manipulation and patterning of nano-objects. <i>Applied Physics Reviews</i> , <b>2015</b> , 2, 040605	17.3	58
146	Monte Carlo simulation of the performance of PMMA luminescent solar collectors. <i>Applied Optics</i> , <b>1983</b> , 22, 3236	1.7	57
145	Nonlinear optical waveguides generated in lithium niobate by swift-ion irradiation at ultralow fluences. <i>Optics Letters</i> , <b>2007</b> , 32, 2587-9	3	52
144	Photovoltaic versus optical tweezers. <i>Optics Express</i> , <b>2011</b> , 19, 24320-30	3.3	47
143	Study of developing thermal fixed holograms in lithium niobate. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2000</b> , 17, 1140	1.7	40
142	Effect of the oxidation state and hydrogen concentration on the lifetime of thermally fixed holograms in LiNbO <sub>3</sub> :Fe. <i>Physical Review B</i> , <b>2002</b> , 65,	3.3	39
141	Determination of H concentration in LiNbO <sub>3</sub> by photorefractive fixing. <i>Applied Physics Letters</i> , <b>1992</b> , 60, 3212-3214	3.4	36
140	. <i>IEEE Journal of Quantum Electronics</i> , <b>1994</b> , 30, 875-880	2	35
139	Kinetics for optical erasure of sinusoidal holographic gratings in photorefractive materials. <i>IEEE Journal of Quantum Electronics</i> , <b>1986</b> , 22, 1369-1375	2	34
138	Efficient photo-induced dielectrophoretic particle trapping on Fe:LiNbO <sub>3</sub> for arbitrary two dimensional patterning. <i>Optical Materials Express</i> , <b>2015</b> , 5, 1137	2.6	33
137	Recording and erasure kinetics in photorefractive materials at large modulation depths. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>1994</b> , 11, 670	1.7	33
136	Biological applications of ferroelectric materials. <i>Applied Physics Reviews</i> , <b>2018</b> , 5, 041101	17.3	33
135	Recent Achievements on Photovoltaic Optoelectronic Tweezers Based on Lithium Niobate. <i>Crystals</i> , <b>2018</b> , 8, 65	2.3	32
134	Novel optical waveguides by in-depth controlled electronic damage with swift ions. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2007</b> , 257, 765-770	1.2	32
133	Buried amorphous layers by electronic excitation in ion-beam irradiated lithium niobate: Structure and kinetics. <i>Journal of Applied Physics</i> , <b>2007</b> , 101, 033512	2.5	32

132	Understanding light intensity thresholds for catastrophic optical damage in LiNbO <sub>3</sub> . <i>Optics Express</i> , <b>2008</b> , 16, 115-20	3.3	30
131	Optoelectronic tweezers under arbitrary illumination patterns: theoretical simulations and comparison to experiment. <i>Optics Express</i> , <b>2014</b> , 22, 29099-110	3.3	29
130	Light-induced charge transport in LiNbO <sub>3</sub> crystals. <i>Physical Review B</i> , <b>2008</b> , 78,	3.3	29
129	Photorefractive fixing and related thermal effects in LiNbO <sub>3</sub> . <i>Journal of Physics Condensed Matter</i> , <b>1991</b> , 3, 5399-5406	1.8	29
128	Superlinear photovoltaic currents in LiNbO <sub>3</sub> : analyses under the two-center model. <i>Applied Physics B: Lasers and Optics</i> , <b>2004</b> , 79, 351-358	1.9	28
127	High-temperature photorefractive effects in LiNbO <sub>3</sub> :Fe. <i>Journal of Applied Physics</i> , <b>1993</b> , 73, 2709-2713	2.5	27
126	Erase kinetics and spectral dependence of the photorefractive effect in Fe:LiNbO <sub>3</sub> . <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>1987</b> , 4, 309	1.7	27
125	Erase of holographic gratings in photorefractive materials with two active species. <i>Applied Optics</i> , <b>1988</b> , 27, 2851-7	1.7	27
124	Trapping and patterning of biological objects using photovoltaic tweezers. <i>Applied Physics Letters</i> , <b>2016</b> , 108, 023703	3.4	26
123	Optical damage inhibition and thresholding effects in lithium niobate above room temperature. <i>Optics Communications</i> , <b>2000</b> , 178, 211-216	2	25
122	Lifetimes of thermally fixed holograms in LiNbO <sub>3</sub> :Fe crystals. <i>Optics Letters</i> , <b>1998</b> , 23, 960-2	3	25
121	Theory of high-temperature photorefractive phenomena in LiNbO <sub>3</sub> crystals and applications to experiment. <i>Physical Review B</i> , <b>1998</b> , 57, 12792-12805	3.3	24
120	Diffractive optical devices produced by light-assisted trapping of nanoparticles. <i>Optics Letters</i> , <b>2016</b> , 41, 432-5	3	23
119	Optimization of selective erase in photorefractive memories. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>1997</b> , 14, 110	1.7	23
118	Isotropic versus anisotropic modeling of photorefractive solitons. <i>Physical Review E</i> , <b>2002</b> , 65, 066610	2.4	23
117	Massive ordering and alignment of cylindrical micro-objects by photovoltaic optoelectronic tweezers. <i>Optics Letters</i> , <b>2018</b> , 43, 30-33	3	22
116	Role of particle anisotropy and deposition method on the patterning of nano-objects by the photovoltaic effect in LiNbO <sub>3</sub> . <i>Optical Materials</i> , <b>2013</b> , 35, 1700-1705	3.3	22
115	Tumour cell death induced by the bulk photovoltaic effect of LiNbO <sub>3</sub> :Fe under visible light irradiation. <i>Photochemical and Photobiological Sciences</i> , <b>2011</b> , 10, 956-63	4.2	22

114	Outdoor evaluation of luminescent solar concentrator prototypes. <i>Applied Optics</i> , <b>1985</b> , 24, 2028	1.7	22
113	Photorefractive response and optical damage of LiNbO <sub>3</sub> optical waveguides produced by swift heavy ion irradiation. <i>Applied Physics B: Lasers and Optics</i> , <b>2009</b> , 95, 429-433	1.9	21
112	Site correlation effects in the dynamics of iron impurities Fe <sup>2+</sup> and Fe <sup>3+</sup> and antisite defects Nb <sup>4+</sup> and Nb <sup>5+</sup> after a short-pulse excitation in LiNbO <sub>3</sub> . <i>Physical Review B</i> , <b>2005</b> , 72,	3.3	21
111	Analytical and numerical study of photorefractive kinetics at high modulation depths. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>1996</b> , 13, 2587	1.7	21
110	Holographic recording in photorefractive thin films: Edge effects. <i>Journal of Applied Physics</i> , <b>1995</b> , 78, 4840-4844	2.5	20
109	Experimental effects of light intensity modulation on the recording and erasure of holographic gratings in BSO crystals. <i>Optics Communications</i> , <b>1993</b> , 103, 22-28	2	19
108	Singular behavior of light-induced space charge in photorefractive media under an ac field. <i>Physical Review Letters</i> , <b>2000</b> , 84, 3839-42	7.4	18
107	Photorefractive charge compensation in phase proton-exchanged LiNbO <sub>3</sub> waveguides. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2000</b> , 17, 1412	1.7	18
106	Electrophoretic Versus Dielectrophoretic Nanoparticle Patterning Using Optoelectronic Tweezers. <i>Physical Review Applied</i> , <b>2017</b> , 7,	4.3	17
105	Optimization of particle trapping and patterning via photovoltaic tweezers: role of light modulation and particle size. <i>Journal Physics D: Applied Physics</i> , <b>2014</b> , 47, 265101	3	17
104	Role of physical parameters on the photorefractive performance of semiconductor multiple quantum wells. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>1994</b> , 11, 1651	1.7	17
103	Comparative theoretical analysis between parallel and perpendicular geometries for 2D particle patterning in photovoltaic ferroelectric substrates. <i>Journal of the European Optical Society-Rapid Publications</i> , <b>2015</b> , 10,	2.5	16
102	Analysis of photorefractive optical damage in lithium niobate: application to planar waveguides. <i>Optics Express</i> , <b>2010</b> , 18, 20852-61	3.3	16
101	Optical damage in x-cut proton exchanged LiNbO <sub>3</sub> planar waveguides. <i>Journal of Applied Physics</i> , <b>2006</b> , 100, 093103	2.5	16
100	Time evolution of grating decay during photorefractive fixing processes in LiNbO <sub>3</sub> . <i>Journal of Applied Physics</i> , <b>1995</b> , 77, 308-312	2.5	16
99	Particle trapping and structuring on the surface of LiNbO <sub>3</sub> :Fe optical waveguides using photovoltaic fields. <i>Optics Letters</i> , <b>2014</b> , 39, 649-52	3	15
98	Locality vs. nonlocality of (2+1)-dimensional light-induced space-charge field in photorefractive crystals. <i>Europhysics Letters</i> , <b>2002</b> , 60, 847-853	1.6	14
97	Nonperturbative analytical solution for steady-state photorefractive recording. <i>Optics Letters</i> , <b>1995</b> , 20, 1910-2	3	14

96	Edge effect on luminescent solar concentrators. <i>Solar Cells</i> , <b>1985</b> , 15, 225-230		14
95	Real-Time Operation of Photovoltaic Optoelectronic Tweezers: New Strategies for Massive Nano-object Manipulation and Reconfigurable Patterning. <i>Particle and Particle Systems Characterization</i> , <b>2019</b> , 36, 1900233	3.1	13
94	Periodic poling of optical waveguides produced by swift-heavy-ion irradiation in LiNbO <sub>3</sub> . <i>Applied Physics B: Lasers and Optics</i> , <b>2009</b> , 95, 435-439	1.9	13
93	Quasisteady space-charge fields in photorefractive multiple quantum wells: Edge effects. <i>Physical Review B</i> , <b>1997</b> , 55, 5226-5234	3.3	13
92	Plasmonic Enhancement in the Fluorescence of Organic and Biological Molecules by Photovoltaic Tweezing Assembly. <i>Advanced Materials Technologies</i> , <b>2017</b> , 2, 1700024	6.8	12
91	Tailoring of refractive index profiles in LiNbO <sub>3</sub> optical waveguides by low-fluence swift-ion irradiation. <i>Journal Physics D: Applied Physics</i> , <b>2007</b> , 40, 4454-4459	3	12
90	Two-dimensional soliton-induced refractive index change in photorefractive crystals. <i>Optics Communications</i> , <b>2003</b> , 227, 193-202	2	12
89	Nearly 100% diffraction efficiency fixed holograms in oxidized iron-doped LiNbO <sub>3</sub> crystals using self-stabilized recording technique. <i>Optics Communications</i> , <b>2005</b> , 247, 39-48	2	12
88	Solitonlike beam propagation along light-induced singularity of space charge in fast photorefractive media. <i>Physical Review Letters</i> , <b>2002</b> , 89, 033902	7.4	12
87	Effects of strong modulation on beam-coupling gain in photorefractive materials: application to B 12 SiO 20. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>1998</b> , 15, 2092	1.7	12
86	Temporal evolution of the physical response during photorefractive grating formation and erasure for BSO. <i>Journal of Applied Physics</i> , <b>1995</b> , 78, 5686-5690	2.5	12
85	Optimization of the developing stage for fixed gratings in LiNbO <sub>3</sub> . <i>Optics Communications</i> , <b>1996</b> , 126, 240-246	2	12
84	Optoelectronic Manipulation, Trapping, Splitting, and Merging of Water Droplets and Aqueous Biodroplets Based on the Bulk Photovoltaic Effect. <i>Physical Review Applied</i> , <b>2020</b> , 14,	4.3	12
83	Synergy between pyroelectric and photovoltaic effects for optoelectronic nanoparticle manipulation. <i>Optics Express</i> , <b>2019</b> , 27, 804-815	3.3	12
82	Analysis and optimization of propagation losses in LiNbO <sub>3</sub> optical waveguides produced by swift heavy-ion irradiation. <i>Applied Physics B: Lasers and Optics</i> , <b>2012</b> , 107, 157-162	1.9	11
81	Superlinear photovoltaic currents in proton-exchanged LiNbO <sub>3</sub> waveguides. <i>Applied Physics B: Lasers and Optics</i> , <b>2003</b> , 76, 555-559	1.9	11
80	Optical damage control via the Fe <sup>2+</sup> /Fe <sup>3+</sup> ratio in proton-exchanged LiNbO <sub>3</sub> waveguides. <i>Optics Letters</i> , <b>2007</b> , 32, 2294-6	3	10
79	Self-stabilized holographic recording in reduced and oxidized lithium niobate crystals. <i>Optics Communications</i> , <b>2004</b> , 229, 371-380	2	10

78	Holographic phase-shift measurement during development of a fixed grating in lithium niobate crystals. <i>Optics Letters</i> , <b>2003</b> , 28, 1040-2	3	10
77	Grating translation technique for vectorial beam coupling and its applications to linear signal detection. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2002</b> , 19, 1564	1.7	10
76	On macroscopic description of photorefractive phenomena. <i>Applied Physics B: Lasers and Optics</i> , <b>1999</b> , 68, 1013-1020	1.9	10
75	Subharmonic instability taking into account higher harmonics. <i>Applied Physics Letters</i> , <b>1994</b> , 64, 658-660	3.4	10
74	. <i>IEEE Journal of Quantum Electronics</i> , <b>1991</b> , 27, 509-515	2	10
73	Time evolution of photovoltaic fields generated by arbitrary light patterns in z-cut LiNbO:Fe: application to optoelectronic nanoparticle manipulation. <i>Optics Express</i> , <b>2020</b> , 28, 18085-18102	3.3	10
72	Light-intensity measurements in optical waveguides using prism couplers. <i>Journal of Applied Physics</i> , <b>2007</b> , 102, 074509	2.5	9
71	Short-time photorefractive recording in multiple quantum wells: longitudinal geometry. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>1996</b> , 13, 2630	1.7	9
70	Steady holographic gratings in semiconductor multiple quantum wells. <i>Applied Physics A: Solids and Surfaces</i> , <b>1992</b> , 55, 25-29		9
69	Optoelectronic generation of bio-aqueous femto-droplets based on the bulk photovoltaic effect. <i>Optics Letters</i> , <b>2020</b> , 45, 1164-1167	3	9
68	Pyroelectric Trapping and Arrangement of Nanoparticles in Lithium Niobate Opposite Domain Structures. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 731-736	3.8	8
67	Correlation between photorefractive index changes and optical damage thresholds in z-cut proton-exchanged-LiNbO(3) waveguides. <i>Optics Express</i> , <b>2009</b> , 17, 658-65	3.3	8
66	Fixed holograms in iron-doped lithium niobate: simultaneous self-stabilized recording and compensation. <i>Applied Optics</i> , <b>2007</b> , 46, 227-33	1.7	8
65	Photorefractive thin films. <i>Journal of Optics</i> , <b>1996</b> , 5, 495-503		7
64	Selective developing and screening of fixed photorefractive holograms. <i>Optics Communications</i> , <b>1998</b> , 151, 257-262	2	7
63	Two kinetic regimes for high-temperature photorefractive phenomena in LiNbO <sub>3</sub> . <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>1998</b> , 15, 148	1.7	7
62	Effect of local rotations on the optical response of LiNbO <sub>3</sub> : Application to ion-beam damage. <i>Europhysics Letters</i> , <b>2006</b> , 76, 1123-1129	1.6	6
61	Time evolution of the photorefractive phase conjugation process in BaTiO <sub>3</sub> . <i>Optics Communications</i> , <b>1996</b> , 131, 211-218	2	6

60	Optical Waveguides Fabricated by Ion Implantation/Irradiation: A Review Optical Waveguides Fabricated by Ion Implantation/Irradiation: A Review <b>2012</b> ,		5
59	Light intensity dependence of holographic response and dark decays in E <sub>h</sub> phase PE:LiNbO <sub>3</sub> waveguides. <i>Journal of Optics</i> , <b>2008</b> , 10, 104008		5
58	Photorefractive fixing phenomena in alpha-phase proton-exchanged LiNbO <sub>3</sub> waveguides. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2005</b> , 22, 2229	1.7	5
57	Determination of proton diffusion anisotropy by thermal decay of fixed holograms with K-vector perpendicular to the c-axis in LiNbO <sub>3</sub> :Fe. <i>Applied Physics B: Lasers and Optics</i> , <b>2005</b> , 80, 351-354	1.9	5
56	Parametric scattering processes in photorefractive periodically poled lithium niobate. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2002</b> , 19, 1582	1.7	5
55	Linear phase demodulation in photorefractive crystals with nonlocal response. <i>Journal of Applied Physics</i> , <b>2001</b> , 90, 3135-3141	2.5	5
54	Nonlinear generation of higher-order combinational gratings during sequential recording in LiNbO <sub>3</sub> . <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>1999</b> , 16, 1658	1.7	5
53	Effect of light phase-shifts on photorefractive kinetics: linear regime. <i>Optical Materials</i> , <b>1995</b> , 4, 304-307	3.3	5
52	Numerical simulation of the time evolution of photorefractive phase conjugate beams: Multigrating operation. <i>Optical Materials</i> , <b>1995</b> , 4, 326-329	3.3	5
51	Optimization of photorefractive recording by means of light phase-shifts. <i>Optics Communications</i> , <b>1995</b> , 116, 398-404	2	5
50	Fabrication of Periodically Poled Swift Ion-irradiation Waveguides in LiNbO <sub>3</sub> . <i>Ferroelectrics</i> , <b>2009</b> , 390, 29-35	0.6	4
49	Photorefractive non-linear single beam propagation in LiNbO <sub>3</sub> waveguides above the optical damage threshold. <i>Optical Materials</i> , <b>2010</b> , 33, 103-106	3.3	4
48	An alternative design strategy for thin photorefractive polymer structures. <i>Advanced Materials</i> , <b>1997</b> , 9, 423-426	24	4
47	Photorefractive gratings generated by band-gap excitation: Application to KNbO <sub>3</sub> . <i>Applied Physics B: Lasers and Optics</i> , <b>2001</b> , 72, 697-700	1.9	4
46	Calculation of beam-coupling gain and fringe bending in the photorefractive material bismuth silicon oxide under electric fields and strong modulations. <i>Physical Review B</i> , <b>1998</b> , 58, 9591-9594	3.3	4
45	Linear electroabsorption in semi-insulating GaAs/AlGaAs asymmetric double quantum wells. <i>Journal of Applied Physics</i> , <b>1999</b> , 86, 3822-3825	2.5	4
44	Nonlinear grating interactions in multibeam photorefractive recording: theoretical investigation. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>1999</b> , 16, 414	1.7	4
43	Effects of light phase-shifts on photorefractive kinetics: Computer simulations. <i>Optical Materials</i> , <b>1995</b> , 4, 461-465	3.3	4

42	Role of photovoltaic drift on the initial writing and erasure rates of holographic gratings: Some implications. <i>Optics Communications</i> , <b>1988</b> , 69, 83-86	2	4
41	Lambert emitters: a simple Monte-Carlo approach to optical diffusers. <i>European Journal of Physics</i> , <b>1985</b> , 6, 183-187	0.8	4
40	Low loss optical waveguides fabricated in LiTaO by swift heavy ion irradiation. <i>Optics Express</i> , <b>2019</b> , 27, 8696-8708	3.3	4
39	Nanoparticle manipulation and trapping by the synergy between the photovoltaic and pyroelectric effects. <i>Journal of Physics: Conference Series</i> , <b>2017</b> , 867, 012038	0.3	3
38	Characterization and inhibition of photorefractive optical damage of swift heavy ion irradiation waveguides in LiNbO <sub>3</sub> . <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2012</b> , 29, 3000	1.7	3
37	Effects of light modulation on grating phase shifts in photorefractive recording. <i>Optics Communications</i> , <b>1997</b> , 139, 81-84	2	3
36	Electric field periodical poling of lithium niobate crystals after soft-proton-exchanged waveguide fabrication. <i>Applied Physics B: Lasers and Optics</i> , <b>2007</b> , 88, 75-78	1.9	3
35	Photorefractive $\pi$ Phase Proton-Exchanged LiNbO <sub>3</sub> Waveguides Prepared on Iron Doped Substrates. <i>Ferroelectrics</i> , <b>2007</b> , 352, 86-93	0.6	3
34	Fundamentals of Photorefractive Phenomena <b>2006</b> , 43-82		3
33	Twelve-fold increase of diffraction efficiency of thermally fixed holograms in Bi <sub>12</sub> SiO <sub>20</sub> . <i>Journal of Applied Physics</i> , <b>2005</b> , 97, 073505	2.5	3
32	Dark developing of photorefractive proton-exchanged LiNbO <sub>3</sub> waveguides. <i>Optical Materials</i> , <b>2001</b> , 18, 111-114	3.3	3
31	Spatial frequency mixing by nonlinear charge transport in photorefractive materials. <i>Physical Review B</i> , <b>2002</b> , 65,	3.3	3
30	Nonlinear cross talk between gratings recorded in BaTiO <sub>3</sub> by mutually incoherent beam pairs. <i>Journal of Applied Physics</i> , <b>2000</b> , 88, 5527-5533	2.5	3
29	Effect of domain structure fluctuations on the photorefractive response of periodically poled lithium niobate. <i>Physical Review B</i> , <b>2000</b> , 62, 13182-13187	3.3	3
28	Photorefractive phase conjugation of an image field: fidelity analysis. <i>Optics Communications</i> , <b>1992</b> , 91, 481-488	2	3
27	Photovoltaic tweezers an emergent tool for applications in nano and bio-technology <b>2015</b> ,		2
26	Thermal Fixing of Photoinduced Gratings <b>2006</b> , 369-396		2
25	Transition from local to nonlocal photorefractive nonlinearity on increasing spatial dimensionality. <i>Optics Communications</i> , <b>2004</b> , 233, 439-444	2	2



24	Comparative study of optical damage and photovoltaic currents in planar LiNbO <sub>3</sub> waveguides <b>2005</b> , ,		2
23	Nonlinear mixing of spatial frequencies in photorefractive thermal fixing of holograms in LiNbO <sub>3</sub> . <i>Optical Materials</i> , <b>2001</b> , 18, 115-118	3.3	2
22	Time evolution of photorefractive fixing processes in LiNbO <sub>3</sub> . <i>Optical Materials</i> , <b>1995</b> , 4, 290-293	3.3	2
21	Nanoparticle Gratings for Compact Spectrometers: an Application of Photovoltaic Tweezers. <i>Journal of Physics: Conference Series</i> , <b>2017</b> , 867, 012032	0.3	1
20	Optoelectronic tweezers based on photorefractive space charge fields: recent achievements and challenges. <i>Journal of Physics: Conference Series</i> , <b>2017</b> , 867, 012030	0.3	1
19	Near Field Optical Microscopy in Periodically Poled LiNbO <sub>3</sub> and LiTaO <sub>3</sub> Superlattices. <i>Ferroelectrics</i> , <b>2014</b> , 467, 6-12	0.6	1
18	Mach-Zehnder Method for Optical Damage Characterization of Planar Waveguides. <i>Ferroelectrics</i> , <b>2009</b> , 390, 41-47	0.6	1
17	The Domain Kinetics in Congruent Lithium Niobate Modified by Low and High Energy Ion Irradiation. <i>Ferroelectrics</i> , <b>2012</b> , 441, 17-24	0.6	1
16	Light Intensity Effects in Photorefractive EPhase PE-LiNbO <sub>3</sub> Waveguides. <i>AIP Conference Proceedings</i> , <b>2008</b> ,	0	1
15	Photorefractive effect and nonlinear susceptibilities. <i>Optical Materials</i> , <b>1996</b> , 5, 187-192	3.3	1
14	Holographic infrared wavelength deflector in Ephase proton-exchanged LiNbO <sub>3</sub> waveguides <b>2003</b> ,		1
13	Optoelectronic manipulation of bio-droplets containing cells or macromolecules by active ferroelectric platforms. <i>Biomedical Optics Express</i> , <b>2021</b> , 12, 6601-6613	3.5	1
12	Model for multiwave-pumped parametric oscillation in BaTiO <sub>3</sub> . <i>Applied Physics B: Lasers and Optics</i> , <b>1998</b> , 66, 347-354	1.9	0
11	Long-Lifetime Photorefractive Holographic Devices via Thermal Fixing Methods <b>2003</b> , 91-112		0
10	Light and Thermally Induced Charge Transfer and Ejection of Micro-/Nanoparticles from Ferroelectric Crystal Surfaces. <i>Advanced Electronic Materials</i> ,2100761	6.4	0
9	Droplet Ejection and Liquid Jetting by Visible Laser Irradiation in Pyro-Photovoltaic Fe-Doped LiNbO <sub>3</sub> Platforms. <i>Advanced Materials Interfaces</i> , <b>2021</b> , 8, 2101164	4.6	0
8	Photovoltaic laser beam degradation in lithium niobate planar waveguides: two-center model approach. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2014</b> , 31, 919	1.7	
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