

Boris I Sturman

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186
papers

2,880
citations

28
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199
ext. papers

3,324
ext. citations

2.9
avg, IF

4.9
L-index

#	Paper	IF	Citations
186	The photogalvanic effect in media lacking a center of symmetry. <i>Uspekhi Fizicheskikh Nauk</i> , 1980 , 23, 199-223		300
185	Highly tunable low-threshold optical parametric oscillation in radially poled whispering gallery resonators. <i>Physical Review Letters</i> , 2011 , 106, 143903	7.4	101
184	Origin of stretched exponential relaxation for hopping-transport models. <i>Physical Review Letters</i> , 2003 , 91, 176602	7.4	97
183	Light pulse slowing down up to 0.025 cm/s by photorefractive two-wave coupling. <i>Physical Review Letters</i> , 2003 , 91, 083902	7.4	82
182	Space-charge waves in photorefractive crystals and their parametric excitation. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1993 , 10, 1919	1.7	78
181	Physics and applications of charged domain walls. <i>Npj Computational Materials</i> , 2018 , 4,	10.9	74
180	Optical cleaning of congruent lithium niobate crystals. <i>Nature Photonics</i> , 2009 , 3, 510-513	33.9	70
179	Parametric four-wave processes in photorefractive crystals. <i>Physics Reports</i> , 1996 , 275, 197-254	27.7	66
178	Theory of extraordinary light transmission through arrays of subwavelength slits. <i>Physical Review B</i> , 2008 , 77,	3.3	57
177	Large and accessible conductivity of charged domain walls in lithium niobate. <i>Scientific Reports</i> , 2017 , 7, 9862	4.9	56
176	Theory of photorefractive vectorial wave coupling in cubic crystals. <i>Physical Review E</i> , 1999 , 60, 3332-52	2.4	50
175	Investigation of nonlinear absorption processes with femtosecond light pulses in lithium niobate crystals. <i>Physical Review E</i> , 2005 , 71, 056603	2.4	44
174	Whispering gallery modes at the rim of an axisymmetric optical resonator: analytical versus numerical description and comparison with experiment. <i>Optics Express</i> , 2013 , 21, 30683-92	3.3	42
173	Slowing down of light in photorefractive crystals with beam intensity coupling reduced to zero. <i>Physical Review Letters</i> , 2004 , 93, 243604	7.4	41
172	Eigenmodes for metal-dielectric light-transmitting nanostructures. <i>Physical Review B</i> , 2007 , 76,	3.3	40
171	Spatial subharmonics in photorefractive crystals. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1992 , 9, 672	1.7	39
170	Development of a Continuous-Flow Hydride and Mercury Vapor Generation Accessory for Atomic Absorption Spectrophotometry. <i>Applied Spectroscopy</i> , 1985 , 39, 48-56	3.1	38

169	The oxidation of iron (II) sulphide. <i>Journal of Theoretical Biology</i> , 1975 , 8, 329-337	2.3	38
168	Femtosecond time-resolved absorption processes in lithium niobate crystals. <i>Optics Letters</i> , 2005 , 30, 1366-8	3	37
167	Generation of spatial subharmonic gratings in the absence of photorefractive beam coupling. <i>Physical Review Letters</i> , 1994 , 73, 3082-3084	7.4	34
166	Nonlinear scattering in BaTiO ₃ induced by two orthogonally polarized waves. <i>Applied Physics B, Photophysics and Laser Chemistry</i> , 1991 , 52, 317-322		34
165	Collective effects associated with lower hybrid heating of plasma. <i>Plasma Physics</i> , 1978 , 20, 1131-1150		34
164	Beam-coupling, four-wave mixing and optical oscillation due to spatially-oscillating photovoltaic currents in lithium niobate crystals. <i>Ferroelectrics</i> , 1987 , 75, 295-315	0.6	33
163	Investigation of photoinduced scattering in LiNbO ₃ crystals. <i>Optics Communications</i> , 1980 , 34, 95-100	2	32
162	Instability of moving gratings in photorefractive crystals. <i>Applied Physics A: Solids and Surfaces</i> , 1992 , 55, 235-241		31
161	Photorefractive nonlinearity of periodically poled ferroelectrics. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1997 , 14, 2641	1.7	30
160	Hydride generation atomic absorption spectrometry with in situ pre-concentration in a graphite furnace in the presence of palladium. <i>Journal of Analytical Atomic Spectrometry</i> , 1989 , 4, 251	3.7	30
159	Light-induced charge transport in LiNbO ₃ crystals. <i>Physical Review B</i> , 2008 , 78,	3.3	29
158	Light-induced charge-transport in undoped LiNbO ₃ crystals. <i>Applied Physics B: Lasers and Optics</i> , 2011 , 105, 35-50	1.9	27
157	Generic description of second-order nonlinear phenomena in whispering-gallery resonators. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2011 , 28, 2465	1.7	26
156	Theory of high-temperature photorefractive phenomena in LiNbO ₃ crystals and applications to experiment. <i>Physical Review B</i> , 1998 , 57, 12792-12805	3.3	24
155	Space-charge waves in photorefractive ferroelectrics. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1995 , 12, 1642	1.7	24
154	Exact solution of the Bragg-difEraction problem in sillenites. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1994 , 11, 1813	1.7	24
153	Degenerate parametric light scattering in periodically poled LiNbO ₃ :Y:Fe. <i>Physical Review Letters</i> , 2001 , 86, 4021-4	7.4	23
152	Origin of UV-induced poling inhibition in lithium niobate crystals. <i>Physical Review B</i> , 2010 , 82,	3.3	22

151	Femtosecond holography in lithium niobate crystals. <i>Optics Letters</i> , 2005 , 30, 2233-5	3	22
150	Low frequency peculiarities of the photorefractive response in sillenites. <i>Optics Communications</i> , 1995 , 113, 371-377	2	22
149	Modeling of the photorefractive nonlinear response in Sn ₂ P ₂ S ₆ crystals. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2007 , 24, 1303	1.7	21
148	Investigation of photorefractive subharmonics in the absence of wave mixing. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1995 , 12, 1621	1.7	21
147	The relation between shift and ballistic currents in the theory of photogalvanic effect. <i>Ferroelectrics</i> , 1988 , 83, 29-34	0.6	21
146	Transmission and diffraction properties of a narrow slit in a perfect metal. <i>Physical Review B</i> , 2010 , 82,	3.3	20
145	Phenomenological analysis of the parametric scattering processes in photorefractive crystals. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1996 , 13, 577	1.7	20
144	Singular behavior of light-induced space charge in photorefractive media under an ac field. <i>Physical Review Letters</i> , 2000 , 84, 3839-42	7.4	18
143	Fundamentals of the nonlinear theory of photorefractive subharmonics. <i>Physical Review E</i> , 1997 , 55, 6072-6083	2.4	17
142	Instability of spatial gratings induced by ac fields in photorefractive crystals. <i>Optics Letters</i> , 1992 , 17, 1620-2	3	17
141	Subharmonic generation in photorefractive crystals: Application of theory to experiment. <i>Applied Physics A: Solids and Surfaces</i> , 1992 , 55, 55-60		17
140	Errors in the atomic absorption determination of calcium by the standard addition method. <i>Analytical Chemistry</i> , 1979 , 51, 307-310	7.8	17
139	Quantum properties of charged ferroelectric domain walls. <i>Physical Review B</i> , 2015 , 92,	3.3	16
138	Separation of optical Kerr and free-carrier nonlinear responses with femtosecond light pulses in LiNbO ₃ crystals. <i>Physical Review B</i> , 2007 , 76,	3.3	16
137	Hidden reservoir of photoactive electrons in LiNbO ₃ crystals. <i>Physical Review Letters</i> , 2012 , 109, 026603	7.4	15
136	The photogalvanic effect – a new mechanism of nonlinear wave interaction in electrooptic crystals. <i>Soviet Journal of Quantum Electronics</i> , 1980 , 10, 276-278		15
135	Dynamics of feedback controlled photorefractive beam coupling. <i>Physical Review A</i> , 2001 , 63,	2.6	14
134	Giant momentary readout produced by switching electric fields during two-wave mixing in sillenites. <i>Optics Letters</i> , 1998 , 23, 1435-7	3	14

133	Parametric conical scattering of two orthogonally polarized waves in BaTiO ₃ . <i>Journal of the Optical Society of America B: Optical Physics</i> , 1992 , 9, 1648	1.7	14
132	Polarization-degenerate parametric light scattering in photorefractive crystals. <i>Applied Physics B, Photophysics and Laser Chemistry</i> , 1993 , 56, 193-199		14
131	Mirrorless coherent oscillation due to six-beam vectorial mixing in photorefractive crystals. <i>Optics Letters</i> , 1988 , 13, 1017-9	3	14
130	Nonlinear solutions for (2) frequency combs in optical microresonators. <i>Physical Review A</i> , 2020 , 101,	2.6	13
129	Metal nanoparticles with sharp corners: Universal properties of plasmon resonances. <i>Europhysics Letters</i> , 2013 , 101, 57009	1.6	13
128	On the Emitter of Blue Light in Copper-Containing Pyrotechnic Flames. <i>Propellants, Explosives, Pyrotechnics</i> , 2006 , 31, 70-74	1.7	13
127	Excitation of higher spatial harmonics by a moving light pattern in sillenites. <i>Optics Communications</i> , 1996 , 131, 315-321	2	13
126	Physical origin of mirrorless parametric oscillation in BaTiO ₃ . <i>Journal of the Optical Society of America B: Optical Physics</i> , 1994 , 11, 1700	1.7	13
125	Transmission and scattering properties of subwavelength slits in metals. <i>Physical Review B</i> , 2011 , 83,	3.3	12
124	Reflection holograms in iron-doped lithium niobate. <i>Applied Physics B: Lasers and Optics</i> , 1997 , 65, 535-539		12
123	Threshold behavior of semi-linear photorefractive oscillator. <i>European Physical Journal D</i> , 2006 , 39, 445-451		12
122	Solitonlike beam propagation along light-induced singularity of space charge in fast photorefractive media. <i>Physical Review Letters</i> , 2002 , 89, 033902	7.4	12
121	Verification of the standard model of the photorefractive nonlinearity in BSO crystals. <i>Optics Communications</i> , 1994 , 108, 31-36	2	12
120	Feedback-controlled photorefractive two-beam coupling. <i>Physical Review A</i> , 1997 , 56, R2541-R2544	2.6	11
119	Ultraslow shock waves of electron density in LiNbO ₃ crystals. <i>Physical Review Letters</i> , 2008 , 101, 116601	7.4	11
118	Transversal parametric oscillation and its external stability in photorefractive sillenite crystals. <i>Physical Review E</i> , 1998 , 57, 6112-6126	2.4	11
117	Mechanism of transverse instability of counterpropagation in photorefractive media. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1995 , 12, 1384	1.7	11
116	Polarization-anisotropic scattering lines in LiNbO ₃ . <i>Applied Physics B, Photophysics and Laser Chemistry</i> , 1993 , 56, 223-228		11

115	Dynamic holography effects in ferroelectrics induced by spatially oscillating photovoltaic currents. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1991 , 8, 1333	1.7	11
114	Frequency comb generation threshold via second-harmonic excitation in \mathbb{Q} optical microresonators. <i>APL Photonics</i> , 2020 , 5, 116102	5.2	11
113	Acoustic whispering gallery modes within the theory of elasticity. <i>Journal of Applied Physics</i> , 2015 , 118, 013102	2.5	10
112	Slowdown and speedup of light pulses using the self-compensating photorefractive response. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2011 , 28, 347	1.7	10
111	Quasi-resonant and quasi-phase-matched nonlinear second-order phenomena in whispering-gallery resonators. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2012 , 29, 3087	1.7	10
110	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> , 2002 , 19, 1564	1.7	10
109	Critical enhancement of photorefractive beam coupling. <i>Physical Review Letters</i> , 2000 , 85, 1867-70	7.4	10
108	On macroscopic description of photorefractive phenomena. <i>Applied Physics B: Lasers and Optics</i> , 1999 , 68, 1013-1020	1.9	10
107	Stochastic photorefractive backscattering from LiNbO(3) crystals. <i>Optics Letters</i> , 1996 , 21, 854-6	3	10
106	Walk-off controlled self-starting frequency combs in \mathbb{Q} optical microresonators. <i>Optics Express</i> , 2020 , 28, 18006-18017	3.3	10
105	Universal plasmonic properties of two-dimensional nanoparticles possessing sharp corners. <i>Physical Review B</i> , 2013 , 87,	3.3	9
104	Structure of pump resonances during optical parametric oscillation in whispering gallery resonators. <i>Optics Letters</i> , 2013 , 38, 3316-8	3	9
103	Feedback-controlled two-wave coupling in reflection geometry: application to lithium niobate crystals subjected to extremely high external electric fields. <i>Applied Physics B: Lasers and Optics</i> , 2003 , 77, 43-48	1.9	9
102	Shaping of photorefractive two-wave coupling by fast phase modulation. <i>Physical Review E</i> , 2000 , 61, 2029-37	2.4	9
101	Dynamics of parametric conical scattering of orthogonally polarized waves in BaTiO ₃ . <i>Applied Physics A: Solids and Surfaces</i> , 1992 , 55, 65-72		9
100	Collision integral for elastic scattering of electrons and phonons. <i>Uspekhi Fizicheskikh Nauk</i> , 1984 , 27, 881-884		9
99	Whispering gallery resonators with broken axial symmetry: Theory and experiment. <i>Optics Express</i> , 2016 , 24, 20143-55	3.3	9
98	Strong forward-backward asymmetry of stimulated Raman scattering in lithium-niobate-based whispering gallery resonators. <i>Optics Letters</i> , 2016 , 41, 2823-6	3	8

97	Kinetics of photorefractive recording for circular light beams. <i>Optics Letters</i> , 2009 , 34, 1036-8	3	8
96	Nonlinear pulse deceleration using photorefractive four-wave mixing. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2009 , 26, 1949	1.7	8
95	Eigenmodes for the problem of extraordinary light transmission through subwavelength holes. <i>Europhysics Letters</i> , 2007 , 80, 24002	1.6	8
94	The choice of absorbing lines in flame atomic absorption spectrometry— new look at an old topic. <i>Journal of Analytical Atomic Spectrometry</i> , 2004 , 19, 706-708	3.7	8
93	Strong permanent reversible diffraction gratings in copper-doped lithium niobate crystals caused by a zero-electric-field photorefractive effect. <i>Applied Physics B: Lasers and Optics</i> , 2005 , 80, 227-230	1.9	8
92	Attractors and auto-oscillations for feedback controlled photorefractive beam coupling. <i>Optics Communications</i> , 2001 , 192, 399-405	2	8
91	Ac square-wave field-induced subharmonics in photorefractive sillenite: threshold for excitation by inclusion of higher harmonics. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1999 , 16, 103	1.7	8
90	Mechanism of self-organized light-induced scattering in periodically poled lithium niobate. <i>Applied Physics Letters</i> , 1996 , 69, 1349-1351	3.4	8
89	Control of mode anticrossings in whispering gallery microresonators. <i>Optics Express</i> , 2018 , 26, 762-771	3.3	7
88	Charge transport properties of undoped congruent lithium niobate crystals. <i>Applied Physics B: Lasers and Optics</i> , 2009 , 97, 811-815	1.9	7
87	Optical properties of periodic arrays of subwavelength slits in a perfect metal. <i>Physical Review B</i> , 2011 , 84,	3.3	7
86	Threshold for pattern formation in a medium with a local photorefractive response. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1997 , 14, 1754	1.7	7
85	Photorefractive manipulation of light pulses. <i>Physical Review A</i> , 2008 , 77,	2.6	7
84	Femtosecond recording and time-resolved readout of spatial gratings in lithium niobate crystals. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2007 , 24, 419	1.7	7
83	Coupling effects for counterpropagating light beams in lithium niobate crystals studied by grating translation technique for extremely high external electric fields. <i>Journal of Applied Physics</i> , 2003 , 94, 6274-6279	2.5	7
82	Resonant vectorial wave coupling in cubic photorefractive crystals. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2000 , 17, 985	1.7	7
81	Two kinetic regimes for high-temperature photorefractive phenomena in LiNbO ₃ . <i>Journal of the Optical Society of America B: Optical Physics</i> , 1998 , 15, 148	1.7	7
80	Steady-state analysis of ac subharmonic generation in photorefractive sillenite crystals. <i>Physical Review A</i> , 1998 , 58, 1601-1604	2.6	7

79	Investigation of stochastic photorefractive backscattering. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1996 , 13, 2242	1.7	7
78	Instability of the resonance enhancement of moving photorefractive gratings. <i>Optics Letters</i> , 1993 , 18, 702-4	3	7
77	The determination of gypsum and lime in small samples of set plaster by a DSC computer method. <i>Thermochimica Acta</i> , 1980 , 37, 337-341	2.9	7
76	Deceleration and shape-transformation of light pulses during phase conjugation in photorefractive media. <i>Applied Physics B: Lasers and Optics</i> , 2009 , 95, 545-549	1.9	6
75	Frequency degenerate and non-degenerate nonlinear regimes for semi-linear photorefractive oscillator. <i>European Physical Journal D</i> , 2007 , 41, 363-369	1.3	6
74	Regimes of feedback-controlled beam coupling. <i>Physical Review E</i> , 2005 , 72, 016621	2.4	6
73	Instability of the resonance excitation of space-charge waves in sillenite crystals. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1999 , 16, 556	1.7	6
72	Transient processes for two-beam interaction in photorefractive crystals. <i>Optics Communications</i> , 1990 , 79, 345-348	2	6
71	Photoelectric effects in ferroelectrics with high-mobile nonequilibrium electrons. <i>Ferroelectrics</i> , 1982 , 43, 125-129	0.6	6
70	Quantitative characterization of periodically poled lithium niobate by electrically induced Bragg diffraction. <i>Applied Physics Letters</i> , 2006 , 88, 182910	3.4	5
69	X-ray-induced conductivity in iron-doped lithium niobate crystals. <i>Physical Review B</i> , 2003 , 68,	3.3	5
68	Parametric scattering processes in photorefractive periodically poled lithium niobate. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2002 , 19, 1582	1.7	5
67	Linear phase demodulation in photorefractive crystals with nonlocal response. <i>Journal of Applied Physics</i> , 2001 , 90, 3135-3141	2.5	5
66	Rigorous three-dimensional theory of subharmonic instability in sillenites. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1999 , 16, 1099	1.7	5
65	Ion and mixed electron-ion screening of charged domain walls in ferroelectrics. <i>Europhysics Letters</i> , 2018 , 122, 67005	1.6	4
64	Critical behavior of optical singularities near sharp metal corners and tips. <i>Physical Review B</i> , 2014 , 89,	3.3	4
63	Brillouin lasing in whispering gallery micro-resonators. <i>New Journal of Physics</i> , 2015 , 17, 125006	2.9	4
62	Plasmonic resonances of nanowires with periodically corrugated cross sections. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2012 , 29, 3248	1.7	4

61	Semi-empirical approach to the calculation of instrumental detection limits in inductively coupled plasma atomic emission spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 1998 , 13, 69-74	3.7	4
60	Strong lowering of the mirrorless optical oscillation threshold by angular mismatches for nonlocal photorefractive nonlinearity. <i>Optics Letters</i> , 2008 , 33, 2773-5	3	4
59	Description of readout processes during strong beam coupling. <i>Physical Review E</i> , 2004 , 69, 066603	2.4	4
58	Analysis of space-charge wave effects in GaAs:EL2. <i>Physical Review B</i> , 1996 , 54, 13737-13743	3.3	4
57	Methods for comparing the performances of flame atomisers for atomic absorption spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 1990 , 5, 399	3.7	4
56	Mechanisms of absolute negative photoconductivity in solids. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1985 , 112, 237-239	2.3	4
55	Interaction of potential oscillations in a magnetoactive plasma. <i>Radiophysics and Quantum Electronics</i> , 1974 , 17, 1349-1355	0.7	4
54	Vectorial perturbation theory for axisymmetric whispering gallery resonators. <i>Physical Review A</i> , 2019 , 99,	2.6	4
53	Charged domain walls under super-band-gap illumination. <i>Physical Review B</i> , 2017 , 95,	3.3	3
52	Selective excitation of plasmons superlocalized at sharp perturbations of metal nanoparticles. <i>Europhysics Letters</i> , 2015 , 110, 57004	1.6	3
51	Strong polarization effects in photothermal common-path interferometry. <i>Optics Letters</i> , 2014 , 39, 3880-3		3
50	Space-Charge Wave Effects in Photorefractive Materials 2006 , 119-162		3
49	Enhanced temporal resolution in femtosecond dynamic-grating experiments. <i>Journal of Applied Physics</i> , 2005 , 97, 113107	2.5	3
48	Long-living currents induced by nanosecond light pulses in LiNbO(3) crystals. <i>Optics Express</i> , 2006 , 14, 1533-40	3.3	3
47	The performance of boosted output hollow cathode lamps in flame atomic absorption spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2002 , 57, 1689-1704	3.1	3
46	Photorefractive ac-enhanced nonlinear response of sillenites: Low- and high-contrast effects. <i>European Physical Journal D</i> , 2003 , 23, 285-290	1.3	3
45	Solutions for vectorial beam coupling under ac field in cubic photorefractive crystals. <i>Physical Review E</i> , 2003 , 68, 036613	2.4	3
44	Vectorial wave interaction in cubic photorefractive crystals. <i>Journal of Experimental and Theoretical Physics</i> , 2001 , 92, 108-122	1	3

43	Theory of critical enhancement of photorefractive beam coupling. <i>Physical Review E</i> , 2002 , 65, 046623	2.4	3
42	Effect of domain structure fluctuations on the photorefractive response of periodically poled lithium niobate. <i>Physical Review B</i> , 2000 , 62, 13182-13187	3.3	3
41	Two regimes of two-beam coupling in cubic Applied Physics B: Lasers and Optics, 1999 , 68, 931-936	1.9	3
40	Bright light dots caused by interference of parametric scattering processes in LiNbO ₃ crystals. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1996 , 13, 2602	1.7	3
39	Hopping model of photogalvanic effect in ferroelectrics. <i>Ferroelectrics</i> , 1987 , 75, 199-208	0.6	3
38	Theory of photogalvanic effect in ferroelectrics. <i>Ferroelectrics</i> , 1978 , 22, 647-648	0.6	3
37	Plasmons localized at nanoscale perturbations of flat metal surface. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2014 , 31, 1607	1.7	2
36	Elementary processes of light transformation for slit structures in real and perfect metals. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2012 , 10, 409-415	2.6	2
35	Effects of angular pump mismatch for the semi-linear oscillator. <i>Applied Physics B: Lasers and Optics</i> , 2010 , 99, 163-172	1.9	2
34	Coupling of orthogonally polarized eigenwaves in BaTiO ₃ by light-induced parametric scattering. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1997 , 14, 2295	1.7	2
33	The choice of absorbing lines in flame atomic absorption spectrometry—new look at an old topic. <i>Journal of Analytical Atomic Spectrometry</i> , 2005 , 20, 121-123	3.7	2
32	Linear detection of phase-modulated optical signals with ac-biased cubic photorefractive crystals: Influence of coupling effects. <i>Applied Physics B: Lasers and Optics</i> , 2006 , 83, 97-105	1.9	2
31	Theory of periodic states for feedback-controlled photorefractive nonlinear systems. <i>Journal of Experimental and Theoretical Physics</i> , 2004 , 98, 896-907	1	2
30	Critical enhancement of nonlinear response in fast photorefractive crystals. <i>Journal of Experimental and Theoretical Physics</i> , 2002 , 94, 470-481	1	2
29	Feedback controlled periodic states for different kinds of photorefractive nonlinear response. <i>European Physical Journal D</i> , 2003 , 23, 291-297	1.3	2
28	Formation of moving light domains during photorefractive feedback-controlled beam coupling. <i>Optics Communications</i> , 2003 , 216, 225-231	2	2
27	Polarization properties of light-induced scattering in Bi ₁₂ TiO ₂₀ crystals: theory and experiment for diagonal geometry. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2003 , 20, 677	1.7	2
26	Modeling of photorefractive two-step gated recording by long-life-time intermediate levels. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2001 , 18, 485	1.7	2

25	Critical slowing down of space-charge field relaxation in photorefractive sillenites. <i>Optics Letters</i> , 1999 , 24, 1163-5	3	2
24	Relaxation currents in ferroelectrics: Theory. <i>Ferroelectrics</i> , 1981 , 39, 1209-1211	0.6	2
23	Dual backgrounds and their stability during (2) comb generation in microresonators. <i>Journal of the Optical Society of America B: Optical Physics</i> ,	1.7	2
22	Peculiarities of coherent optical oscillation in Sn ₂ P ₂ S ₆ crystals. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2010 , 27, 725	1.7	1
21	Transverse instability threshold in counterpropagating light beams for a nonlinear medium with local photorefractive response. <i>Journal of Experimental and Theoretical Physics</i> , 1997 , 84, 881-887	1	1
20	Rigorous three-dimensional theory of the parametric excitation of space-charge waves in semiconductors. <i>Journal of Experimental and Theoretical Physics</i> , 1998 , 87, 563-569	1	1
19	Photorefractive deceleration of light pulses. <i>Journal of Experimental and Theoretical Physics</i> , 2008 , 106, 668-677	1	1
18	Photorefractive ac response beyond the low-contrast limit. <i>Optical Materials</i> , 2001 , 18, 175-178	3.3	1
17	Description of the photorefractive response in polymers. <i>Optics Letters</i> , 2001 , 26, 226-8	3	1
16	Phase conjugation in BaTiO ₃ by use of the indirect photorefractive coupling of orthogonally polarized light waves. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1998 , 15, 2018	1.7	1
15	Negative hopping photoconductivity in lattice models. <i>Journal of Physics C: Solid State Physics</i> , 1987 , 20, 4845-4854		1
14	Relaxation currents in ferroelectrics: Experiment. <i>Ferroelectrics</i> , 1981 , 39, 1213-1216	0.6	1
13	Relaxation currents and electret effect in polar materials. <i>Ferroelectrics</i> , 1982 , 43, 157-161	0.6	1
12	Fine structure of second-harmonic resonances in optical microresonators. <i>Optics Express</i> , 2021 , 29, 13925-13936	3.3	1
11	Model for multiwave-pumped parametric oscillation in BaTiO ₃ . <i>Applied Physics B: Lasers and Optics</i> , 1998 , 66, 347-354	1.9	0
10	Elastic contributions to electro-optics 1999 , 3904, 166		0
9	Relaxation dynamics of space-charge gratings excited by nanosecond light pulses in highly iron-doped LiNbO ₃ crystals. <i>Applied Physics B: Lasers and Optics</i> , 2009 , 95, 413-419	1.9	
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