

# Boris I Sturman

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

186  
papers

2,880  
citations

28  
h-index

45  
g-index

199  
ext. papers

3,324  
ext. citations

2.9  
avg, IF

4.9  
L-index

#	Paper	IF	Citations
186	Fine structure of second-harmonic resonances in optical microresonators. <i>Optics Express</i> , <b>2021</b> , 29, 13925-13936	3.3	1
185	Nonlinear solutions for (Q) frequency combs in optical microresonators. <i>Physical Review A</i> , <b>2020</b> , 101,	2.6	13
184	Walk-off controlled self-starting frequency combs in optical microresonators. <i>Optics Express</i> , <b>2020</b> , 28, 18006-18017	3.3	10
183	Frequency comb generation threshold via second-harmonic excitation in (Q) optical microresonators. <i>APL Photonics</i> , <b>2020</b> , 5, 116102	5.2	11
182	Vectorial perturbation theory for axisymmetric whispering gallery resonators. <i>Physical Review A</i> , <b>2019</b> , 99,	2.6	4
181	Control of mode anticrossings in whispering gallery microresonators. <i>Optics Express</i> , <b>2018</b> , 26, 762-771	3.3	7
180	Ion and mixed electron-ion screening of charged domain walls in ferroelectrics. <i>Europhysics Letters</i> , <b>2018</b> , 122, 67005	1.6	4
179	Physics and applications of charged domain walls. <i>Npj Computational Materials</i> , <b>2018</b> , 4,	10.9	74
178	Charged domain walls under super-band-gap illumination. <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	3
177	Large and accessible conductivity of charged domain walls in lithium niobate. <i>Scientific Reports</i> , <b>2017</b> , 7, 9862	4.9	56
176	Strong forward-backward asymmetry of stimulated Raman scattering in lithium-niobate-based whispering gallery resonators. <i>Optics Letters</i> , <b>2016</b> , 41, 2823-6	3	8
175	Whispering gallery resonators with broken axial symmetry: Theory and experiment. <i>Optics Express</i> , <b>2016</b> , 24, 20143-55	3.3	9
174	Selective excitation of plasmons superlocalized at sharp perturbations of metal nanoparticles. <i>Europhysics Letters</i> , <b>2015</b> , 110, 57004	1.6	3
173	Quantum properties of charged ferroelectric domain walls. <i>Physical Review B</i> , <b>2015</b> , 92,	3.3	16
172	Acoustic whispering gallery modes within the theory of elasticity. <i>Journal of Applied Physics</i> , <b>2015</b> , 118, 013102	2.5	10
171	Brillouin lasing in whispering gallery micro-resonators. <i>New Journal of Physics</i> , <b>2015</b> , 17, 125006	2.9	4
170	Plasmons localized at nanoscale perturbations of flat metal surface. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2014</b> , 31, 1607	1.7	2

169	Critical behavior of optical singularities near sharp metal corners and tips. <i>Physical Review B</i> , <b>2014</b> , 89,	3.3	4
168	Strong polarization effects in photothermal common-path interferometry. <i>Optics Letters</i> , <b>2014</b> , 39, 3880-3	3.3	3
167	Universal plasmonic properties of two-dimensional nanoparticles possessing sharp corners. <i>Physical Review B</i> , <b>2013</b> , 87,	3.3	9
166	Whispering gallery modes at the rim of an axisymmetric optical resonator: analytical versus numerical description and comparison with experiment. <i>Optics Express</i> , <b>2013</b> , 21, 30683-92	3.3	42
165	Structure of pump resonances during optical parametric oscillation in whispering gallery resonators. <i>Optics Letters</i> , <b>2013</b> , 38, 3316-8	3	9
164	Metal nanoparticles with sharp corners: Universal properties of plasmon resonances. <i>Europhysics Letters</i> , <b>2013</b> , 101, 57009	1.6	13
163	Hidden reservoir of photoactive electrons in LiNbO3 crystals. <i>Physical Review Letters</i> , <b>2012</b> , 109, 026603	7.4	15
162	Elementary processes of light transformation for slit structures in real and perfect metals. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , <b>2012</b> , 10, 409-415	2.6	2
161	Plasmonic resonances of nanowires with periodically corrugated cross sections. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2012</b> , 29, 3248	1.7	4
160	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> , <b>2012</b> , 29, 3087	1.7	10
159	Slowdown and speedup of light pulses using the self-compensating photorefractive response. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2011</b> , 28, 347	1.7	10
158	Generic description of second-order nonlinear phenomena in whispering-gallery resonators. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2011</b> , 28, 2465	1.7	26
157	Light-induced charge-transport in undoped LiNbO3 crystals. <i>Applied Physics B: Lasers and Optics</i> , <b>2011</b> , 105, 35-50	1.9	27
156	Optical properties of periodic arrays of subwavelength slits in a perfect metal. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	7
155	Highly tunable low-threshold optical parametric oscillation in radially poled whispering gallery resonators. <i>Physical Review Letters</i> , <b>2011</b> , 106, 143903	7.4	101
154	Transmission and scattering properties of subwavelength slits in metals. <i>Physical Review B</i> , <b>2011</b> , 83,	3.3	12
153	Origin of UV-induced poling inhibition in lithium niobate crystals. <i>Physical Review B</i> , <b>2010</b> , 82,	3.3	22
152	Peculiarities of coherent optical oscillation in Sn <sub>2</sub> P <sub>2</sub> S <sub>6</sub> crystals. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2010</b> , 27, 725	1.7	1

151	Transmission and diffraction properties of a narrow slit in a perfect metal. <i>Physical Review B</i> , <b>2010</b> , 82,	3.3	20
150	Modeling of optical properties of nanosize metal-dielectric gratings within the eigenmode approach. <i>Nanotechnologies in Russia</i> , <b>2010</b> , 5, 259-265	0.6	
149	Effects of angular pump mismatch for the semi-linear oscillator. <i>Applied Physics B: Lasers and Optics</i> , <b>2010</b> , 99, 163-172	1.9	2
148	Relaxation dynamics of space-charge gratings excited by nanosecond light pulses in highly iron-doped LiNbO <sub>3</sub> crystals. <i>Applied Physics B: Lasers and Optics</i> , <b>2009</b> , 95, 413-419	1.9	
147	Deceleration and shape-transformation of light pulses during phase conjugation in photorefractive media. <i>Applied Physics B: Lasers and Optics</i> , <b>2009</b> , 95, 545-549	1.9	6
146	Charge transport properties of undoped congruent lithium niobate crystals. <i>Applied Physics B: Lasers and Optics</i> , <b>2009</b> , 97, 811-815	1.9	7
145	Optical cleaning of congruent lithium niobate crystals. <i>Nature Photonics</i> , <b>2009</b> , 3, 510-513	33.9	70
144	Kinetics of photorefractive recording for circular light beams. <i>Optics Letters</i> , <b>2009</b> , 34, 1036-8	3	8
143	Nonlinear pulse deceleration using photorefractive four-wave mixing. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2009</b> , 26, 1949	1.7	8
142	Theory of extraordinary light transmission through arrays of subwavelength slits. <i>Physical Review B</i> , <b>2008</b> , 77,	3.3	57
141	Strong lowering of the mirrorless optical oscillation threshold by angular mismatches for nonlocal photorefractive nonlinearity. <i>Optics Letters</i> , <b>2008</b> , 33, 2773-5	3	4
140	Photorefractive manipulation of light pulses. <i>Physical Review A</i> , <b>2008</b> , 77,	2.6	7
139	Light-induced charge transport in LiNbO <sub>3</sub> crystals. <i>Physical Review B</i> , <b>2008</b> , 78,	3.3	29
138	Ultraslow shock waves of electron density in LiNbO <sub>3</sub> crystals. <i>Physical Review Letters</i> , <b>2008</b> , 101, 116601	7.4	11
137	Photorefractive deceleration of light pulses. <i>Journal of Experimental and Theoretical Physics</i> , <b>2008</b> , 106, 668-677	1	1
136	Frequency degenerate and non-degenerate nonlinear regimes for semi-linear photorefractive oscillator. <i>European Physical Journal D</i> , <b>2007</b> , 41, 363-369	1.3	6
135	Eigenmodes for the problem of extraordinary light transmission through subwavelength holes. <i>Europhysics Letters</i> , <b>2007</b> , 80, 24002	1.6	8
134	Separation of optical Kerr and free-carrier nonlinear responses with femtosecond light pulses in LiNbO <sub>3</sub> crystals. <i>Physical Review B</i> , <b>2007</b> , 76,	3.3	16

133	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> , <b>2007</b> , 24, 419	1.7	7
132	Modeling of the photorefractive nonlinear response in Sn <sub>2</sub> P <sub>2</sub> S <sub>6</sub> crystals. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2007</b> , 24, 1303	1.7	21
131	Eigenmodes for metal-dielectric light-transmitting nanostructures. <i>Physical Review B</i> , <b>2007</b> , 76,	3.3	40
130	Space-Charge Wave Effects in Photorefractive Materials <b>2006</b> , 119-162		3
129	Quantitative characterization of periodically poled lithium niobate by electrically induced Bragg diffraction. <i>Applied Physics Letters</i> , <b>2006</b> , 88, 182910	3.4	5
128	Bragg selectivity of space-charge gratings in multidomain lithium niobate crystals. <i>Optics Letters</i> , <b>2006</b> , 31, 1256-8	3	
127	Long-living currents induced by nanosecond light pulses in LiNbO <sub>3</sub> crystals. <i>Optics Express</i> , <b>2006</b> , 14, 1533-40	3.3	3
126	On the Emitter of Blue Light in Copper-Containing Pyrotechnic Flames. <i>Propellants, Explosives, Pyrotechnics</i> , <b>2006</b> , 31, 70-74	1.7	13
125	Threshold behavior of semi-linear photorefractive oscillator. <i>European Physical Journal D</i> , <b>2006</b> , 39, 445-451		12
124	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> , <b>2006</b> , 83, 97-105	1.9	2
123	Enhanced temporal resolution in femtosecond dynamic-grating experiments. <i>Journal of Applied Physics</i> , <b>2005</b> , 97, 113107	2.5	3
122	The choice of absorbing lines in flame atomic absorption spectrometry—a new look at an old topic. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2005</b> , 20, 121-123	3.7	2
121	Femtosecond time-resolved absorption processes in lithium niobate crystals. <i>Optics Letters</i> , <b>2005</b> , 30, 1366-8	3	37
120	Femtosecond holography in lithium niobate crystals. <i>Optics Letters</i> , <b>2005</b> , 30, 2233-5	3	22
119	Investigation of nonlinear absorption processes with femtosecond light pulses in lithium niobate crystals. <i>Physical Review E</i> , <b>2005</b> , 71, 056603	2.4	44
118	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> , <b>2005</b> , 80, 227-230	1.9	8
117	Regimes of feedback-controlled beam coupling. <i>Physical Review E</i> , <b>2005</b> , 72, 016621	2.4	6
116	Description of readout processes during strong beam coupling. <i>Physical Review E</i> , <b>2004</b> , 69, 066603	2.4	4

115	Slowing down of light in photorefractive crystals with beam intensity coupling reduced to zero. <i>Physical Review Letters</i> , <b>2004</b> , 93, 243604	7.4	41
114	Theory of periodic states for feedback-controlled photorefractive nonlinear systems. <i>Journal of Experimental and Theoretical Physics</i> , <b>2004</b> , 98, 896-907	1	2
113	The choice of absorbing lines in flame atomic absorption spectrometry – new look at an old topic. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2004</b> , 19, 706-708	3.7	8
112	Photorefractive ac-enhanced nonlinear response of sillenites: Low- and high-contrast effects. <i>European Physical Journal D</i> , <b>2003</b> , 23, 285-290	1.3	3
111	Feedback controlled periodic states for different kinds of photorefractive nonlinear response. <i>European Physical Journal D</i> , <b>2003</b> , 23, 291-297	1.3	2
110	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> , <b>2003</b> , 77, 43-48	1.9	9
109	Formation of moving light domains during photorefractive feedback-controlled beam coupling. <i>Optics Communications</i> , <b>2003</b> , 216, 225-231	2	2
108	Polarization properties of light-induced scattering in Bi <sub>12</sub> TiO <sub>20</sub> crystals: theory and experiment for diagonal geometry. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2003</b> , 20, 677	1.7	2
107	Coupling of orthogonally polarized waves and vectorial coherent oscillation in periodically poled LiNbO <sub>3</sub> :Y:Fe. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2003</b> , 20, 1649	1.7	
106	Origin of stretched exponential relaxation for hopping-transport models. <i>Physical Review Letters</i> , <b>2003</b> , 91, 176602	7.4	97
105	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> , <b>2003</b> , 94, 6274-6279	2.5	7
104	Solutions for vectorial beam coupling under ac field in cubic photorefractive crystals. <i>Physical Review E</i> , <b>2003</b> , 68, 036613	2.4	3
103	Light pulse slowing down up to 0.025 cm/s by photorefractive two-wave coupling. <i>Physical Review Letters</i> , <b>2003</b> , 91, 083902	7.4	82
102	X-ray-induced conductivity in iron-doped lithium niobate crystals. <i>Physical Review B</i> , <b>2003</b> , 68,	3.3	5
101	The performance of boosted output hollow cathode lamps in flame atomic absorption spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , <b>2002</b> , 57, 1689-1704	3.1	3
100	Critical enhancement of nonlinear response in fast photorefractive crystals. <i>Journal of Experimental and Theoretical Physics</i> , <b>2002</b> , 94, 470-481	1	2
99	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
98	Theory of critical enhancement of photorefractive beam coupling. <i>Physical Review E</i> , <b>2002</b> , 65, 046623	2.4	3

97	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
96	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
95	Photorefractive Wave Mixing in Periodically Poled LiNbO <sub>3</sub> :Y:F. <i>Acta Physica Polonica A</i> , <b>2002</b> , 101, 159-174	1.7	4
94	Attractors and auto-oscillations for feedback controlled photorefractive beam coupling. <i>Optics Communications</i> , <b>2001</b> , 192, 399-405	2	8
93	Photorefractive ac response beyond the low-contrast limit. <i>Optical Materials</i> , <b>2001</b> , 18, 175-178	3.3	1
92	Vectorial wave interaction in cubic photorefractive crystals. <i>Journal of Experimental and Theoretical Physics</i> , <b>2001</b> , 92, 108-122	1	3
91	Degenerate parametric light scattering in periodically poled LiNbO <sub>3</sub> :Y:Fe. <i>Physical Review Letters</i> , <b>2001</b> , 86, 4021-4	7.4	23
90	Dynamics of feedback controlled photorefractive beam coupling. <i>Physical Review A</i> , <b>2001</b> , 63,	2.6	14
89	Description of the photorefractive response in polymers. <i>Optics Letters</i> , <b>2001</b> , 26, 226-8	3	1
88	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> , <b>2001</b> , 18, 485	1.7	2
87	Linear phase demodulation in photorefractive crystals with nonlocal response. <i>Journal of Applied Physics</i> , <b>2001</b> , 90, 3135-3141	2.5	5
86	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
85	Shaping of photorefractive two-wave coupling by fast phase modulation. <i>Physical Review E</i> , <b>2000</b> , 61, 2029-37	2.4	9
84	Critical enhancement of photorefractive beam coupling. <i>Physical Review Letters</i> , <b>2000</b> , 85, 1867-70	7.4	10
83	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
82	Resonant vectorial wave coupling in cubic photorefractive crystals. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2000</b> , 17, 985	1.7	7
81	Two regimes of two-beam coupling in cubic Applied Physics B: Lasers and Optics, <b>1999</b> , 68, 931-936	1.9	3
80	On macroscopic description of photorefractive phenomena. <i>Applied Physics B: Lasers and Optics</i> , <b>1999</b> , 68, 1013-1020	1.9	10

79	Theory of photorefractive vectorial wave coupling in cubic crystals. <i>Physical Review E</i> , <b>1999</b> , 60, 3332-52	2.4	50
78	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> , <b>1999</b> , 16, 103	1.7	8
77	Instability of the resonance excitation of space-charge waves in sillenite crystals. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>1999</b> , 16, 556	1.7	6
76	Rigorous three-dimensional theory of subharmonic instability in sillenites. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>1999</b> , 16, 1099	1.7	5
75	Critical slowing down of space-charge field relaxation in photorefractive sillenites. <i>Optics Letters</i> , <b>1999</b> , 24, 1163-5	3	2
74	Elastic contributions to electro-optics <b>1999</b> , 3904, 166		0
73	Rigorous three-dimensional theory of the parametric excitation of space-charge waves in semiconductors. <i>Journal of Experimental and Theoretical Physics</i> , <b>1998</b> , 87, 563-569	1	1
72	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
71	Semi-empirical approach to the calculation of instrumental detection limits in inductively coupled plasma atomic emission spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , <b>1998</b> , 13, 69-74	3.7	4
70	Giant momentary readout produced by switching electric fields during two-wave mixing in sillenites. <i>Optics Letters</i> , <b>1998</b> , 23, 1435-7	3	14
69	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
68	Phase conjugation in BaTiO <sub>3</sub> by use of the indirect photorefractive coupling of orthogonally polarized light waves. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>1998</b> , 15, 2018	1.7	1
67	Steady-state analysis of ac subharmonic generation in photorefractive sillenite crystals. <i>Physical Review A</i> , <b>1998</b> , 58, 1601-1604	2.6	7
66	Transversal parametric oscillation and its external stability in photorefractive sillenite crystals. <i>Physical Review E</i> , <b>1998</b> , 57, 6112-6126	2.4	11
65	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
64	Fundamentals of the nonlinear theory of photorefractive subharmonics. <i>Physical Review E</i> , <b>1997</b> , 55, 6072-6083	2.4	17
63	Feedback-controlled photorefractive two-beam coupling. <i>Physical Review A</i> , <b>1997</b> , 56, R2541-R2544	2.6	11
62	Threshold for pattern formation in a medium with a local photorefractive response. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>1997</b> , 14, 1754	1.7	7



61	Coupling of orthogonally polarized eigenwaves in BaTiO <sub>3</sub> by light-induced parametric scattering. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>1997</b> , 14, 2295	1.7	2
60	Photorefractive nonlinearity of periodically poled ferroelectrics. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>1997</b> , 14, 2641	1.7	30
59	Transverse instability threshold in counterpropagating light beams for a nonlinear medium with local photorefractive response. <i>Journal of Experimental and Theoretical Physics</i> , <b>1997</b> , 84, 881-887	1	1
58	Reflection holograms in iron-doped lithium niobate. <i>Applied Physics B: Lasers and Optics</i> , <b>1997</b> , 65, 535-539	1.7	12
57	Stochastic photorefractive backscattering from LiNbO <sub>3</sub> crystals. <i>Optics Letters</i> , <b>1996</b> , 21, 854-6	3	10
56	Phenomenological analysis of the parametric scattering processes in photorefractive crystals. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>1996</b> , 13, 577	1.7	20
55	Investigation of stochastic photorefractive backscattering. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>1996</b> , 13, 2242	1.7	7
54	Bright light dots caused by interference of parametric scattering processes in LiNbO <sub>3</sub> crystals. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>1996</b> , 13, 2602	1.7	3
53	Mechanism of self-organized light-induced scattering in periodically poled lithium niobate. <i>Applied Physics Letters</i> , <b>1996</b> , 69, 1349-1351	3.4	8
52	Parametric four-wave processes in photorefractive crystals. <i>Physics Reports</i> , <b>1996</b> , 275, 197-254	27.7	66
51	Excitation of higher spatial harmonics by a moving light pattern in sillenites. <i>Optics Communications</i> , <b>1996</b> , 131, 315-321	2	13
50	Analysis of space-charge wave effects in GaAs:EL2. <i>Physical Review B</i> , <b>1996</b> , 54, 13737-13743	3.3	4
49	Low frequency peculiarities of the photorefractive response in sillenites. <i>Optics Communications</i> , <b>1995</b> , 113, 371-377	2	22
48	Mechanism of transverse instability of counterpropagation in photorefractive media. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>1995</b> , 12, 1384	1.7	11
47	Investigation of photorefractive subharmonics in the absence of wave mixing. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>1995</b> , 12, 1621	1.7	21
46	Space-charge waves in photorefractive ferroelectrics. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>1995</b> , 12, 1642	1.7	24
45	Generation of spatial subharmonic gratings in the absence of photorefractive beam coupling. <i>Physical Review Letters</i> , <b>1994</b> , 73, 3082-3084	7.4	34
44	Verification of the standard model of the photorefractive nonlinearity in BSO crystals. <i>Optics Communications</i> , <b>1994</b> , 108, 31-36	2	12

43	Physical origin of mirrorless parametric oscillation in BaTiO <sub>3</sub> . <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>1994</b> , 11, 1700	1.7	13
42	Exact solution of the Bragg-diffracted problem in sillenites. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>1994</b> , 11, 1813	1.7	24
41	Polarization-degenerate parametric light scattering in photorefractive crystals. <i>Applied Physics B, Photophysics and Laser Chemistry</i> , <b>1993</b> , 56, 193-199		14
40	Polarization-anisotropic scattering lines in LiNbO <sub>3</sub> . <i>Applied Physics B, Photophysics and Laser Chemistry</i> , <b>1993</b> , 56, 223-228		11
39	Space-charge waves in photorefractive crystals and their parametric excitation. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>1993</b> , 10, 1919	1.7	78
38	Instability of the resonance enhancement of moving photorefractive gratings. <i>Optics Letters</i> , <b>1993</b> , 18, 702-4	3	7
37	Spatial subharmonics in photorefractive crystals. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>1992</b> , 9, 672	1.7	39
36	Parametric conical scattering of two orthogonally polarized waves in BaTiO <sub>3</sub> . <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>1992</b> , 9, 1648	1.7	14
35	Instability of spatial gratings induced by ac fields in photorefractive crystals. <i>Optics Letters</i> , <b>1992</b> , 17, 1620-2	3	17
34	Subharmonic generation in photorefractive crystals: Application of theory to experiment. <i>Applied Physics A: Solids and Surfaces</i> , <b>1992</b> , 55, 55-60		17
33	Dynamics of parametric conical scattering of orthogonally polarized waves in BaTiO <sub>3</sub> . <i>Applied Physics A: Solids and Surfaces</i> , <b>1992</b> , 55, 65-72		9
32	Instability of moving gratings in photorefractive crystals. <i>Applied Physics A: Solids and Surfaces</i> , <b>1992</b> , 55, 235-241		31
31	Nonlinear scattering in BaTiO <sub>3</sub> induced by two orthogonally polarized waves. <i>Applied Physics B, Photophysics and Laser Chemistry</i> , <b>1991</b> , 52, 317-322		34
30	Dynamic holography effects in ferroelectrics induced by spatially oscillating photovoltaic currents. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>1991</b> , 8, 1333	1.7	11
29	Transient processes for two-beam interaction in photorefractive crystals. <i>Optics Communications</i> , <b>1990</b> , 79, 345-348	2	6
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27	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> , <b>1989</b> , 4, 251	3.7	30
26	Mechanisms of resonant absolute negative photoconductivity in ruby. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>1988</b> , 127, 47-51	2.3	

25	Mirrorless coherent oscillation due to six-beam vectorial mixing in photorefractive crystals. <i>Optics Letters</i> , <b>1988</b> , 13, 1017-9	3	14
24	The relation between shift and ballistic currents in the theory of photogalvanic effect. <i>Ferroelectrics</i> , <b>1988</b> , 83, 29-34	0.6	21
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17	Relaxation currents and electret effect in polar materials. <i>Ferroelectrics</i> , <b>1982</b> , 43, 157-161	0.6	1
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14	Relaxation currents in ferroelectrics: Theory. <i>Ferroelectrics</i> , <b>1981</b> , 39, 1209-1211	0.6	2
13	Relaxation currents in ferroelectrics: Experiment. <i>Ferroelectrics</i> , <b>1981</b> , 39, 1213-1216	0.6	1
12	Investigation of photoinduced scattering in LiNbO <sub>3</sub> crystals. <i>Optics Communications</i> , <b>1980</b> , 34, 95-100	2	32
11	The determination of gypsum and lime in small samples of set plaster by a DSC computer method. <i>Thermochimica Acta</i> , <b>1980</b> , 37, 337-341	2.9	7
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9	The photogalvanic effect – a new mechanism of nonlinear wave interaction in electrooptic crystals. <i>Soviet Journal of Quantum Electronics</i> , <b>1980</b> , 10, 276-278		15
8	The photogalvanic effect in media lacking a center of symmetry. <i>Uspekhi Fizicheskikh Nauk</i> , <b>1980</b> , 23, 199-223		300

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4	The oxidation of iron (II) sulphide. <i>Journal of Theoretical Biology</i> , <b>1975</b> , 8, 329-337	2.3	38
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1	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