

Maxim M Nazarov

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86
papers

1,023
citations

20
h-index

29
g-index

113
ext. papers

1,282
ext. citations

1.8
avg, IF

4.27
L-index

#	Paper	IF	Citations
86	Terahertz biophotonics as a tool for studies of dielectric and spectral properties of biological tissues and liquids. <i>Progress in Quantum Electronics</i> , 2018 , 62, 1-77	9.1	113
85	Terahertz time-domain spectroscopy of biological tissues. <i>Quantum Electronics</i> , 2008 , 38, 647-654	1.8	83
84	Noninvasive blood glucose monitoring in the terahertz frequency range. <i>Optical and Quantum Electronics</i> , 2016 , 48, 1	2.4	56
83	Terahertz time-domain and Raman spectroscopy of the sulfur-containing peptide dimers: Low-frequency markers of disulfide bridges. <i>Vibrational Spectroscopy</i> , 2008 , 47, 53-58	2.1	41
82	Determination of the refractive index of $\text{NaYF}_4/\text{Yb}^{3+}/\text{Er}^{3+}/\text{Tm}^{3+}$ nanocrystals using spectroscopic refractometry. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2015 , 118, 609-613	0.7	40
81	Characteristic responses of biological and nanoscale systems in the terahertz frequency range. <i>Quantum Electronics</i> , 2014 , 44, 614-632	1.8	34
80	$\text{GaSe}_{1-x}\text{S}_x$ and $\text{GaSe}_{1-x}\text{Te}_x$ thick crystals for broadband terahertz pulses generation. <i>Applied Physics Letters</i> , 2011 , 99, 081105	3.4	32
79	Study of the dielectric function of aqueous solutions of glucose and albumin by THz time-domain spectroscopy. <i>Quantum Electronics</i> , 2016 , 46, 488-495	1.8	29
78	Eight-Capillary Cladding THz Waveguide With Low Propagation Losses and Dispersion. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2018 , 8, 183-191	3.4	28
77	Excitation and propagation of surface electromagnetic waves studied by terahertz spectrochronography. <i>Laser Physics Letters</i> , 2005 , 2, 471-475	1.5	28
76	Studying of dielectric properties of polymers in the terahertz frequency range 2012 ,		27
75	Analysis of blood plasma at terahertz frequencies. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2016 , 120, 50-57	0.7	25
74	THz monitoring of the dehydration of biological tissues affected by hyperosmotic agents. <i>Physics of Wave Phenomena</i> , 2014 , 22, 169-176	1.2	25
73	Study of terahertz-radiation-induced DNA damage in human blood leukocytes. <i>Quantum Electronics</i> , 2014 , 44, 247-251	1.8	25
72	On the choice of nonlinear optical and semiconductor converters of femtosecond laser pulses into terahertz range. <i>Radiophysics and Quantum Electronics</i> , 2009 , 52, 536-545	0.7	24
71	Propagation of THz plasmon pulse on corrugated and flat metal surface. <i>Surface Science</i> , 2006 , 600, 4771-4776	1.8	24
70	In vitro terahertz monitoring of muscle tissue dehydration under the action of hyperosmotic agents. <i>Quantum Electronics</i> , 2014 , 44, 633-640	1.8	23

69	Noncollinear excitation of surface electromagnetic waves: Enhancement of nonlinear optical surface response. <i>Physical Review B</i> , 2004 , 69,	3.3	21
68	Competition between linear and nonlinear processes during generation of pulsed terahertz radiation in a ZnTe crystal. <i>Quantum Electronics</i> , 2005 , 35, 407-414	1.8	21
67	Ultraviolet-to-millimeter-band supercontinua driven by ultrashort mid-infrared laser pulses. <i>Optica</i> , 2020 , 7, 15	8.6	21
66	Surface plasmon THz waves on gratings. <i>Comptes Rendus Physique</i> , 2008 , 9, 232-247	1.4	18
65	THz Spectroscopy of Bound Water in Glucose: Direct Measurements from Crystalline to Dissolved State. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2020 , 41, 1057-1068	2.2	17
64	Application of time-domain THz spectroscopy for studying blood plasma of rats with experimental diabetes. <i>Physics of Wave Phenomena</i> , 2014 , 22, 185-188	1.2	17
63	THz surface plasmon jump between two metal edges. <i>Optics Communications</i> , 2007 , 277, 33-39	2	16
62	Fibonacci-like photonic structure for femtosecond pulse compression. <i>Physical Review E</i> , 2007 , 75, 036609	2.4	14
61	A Comprehensive Study of Albumin Solutions in the Extended Terahertz Frequency Range. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2018 , 39, 840-853	2.2	14
60	Excitation and focusing of terahertz surface plasmons using a grating coupler with elliptically curved grooves. <i>Applied Physics Letters</i> , 2009 , 94, 231108	3.4	10
59	Characterization of Highly Doped Si Through the Excitation of THz Surface Plasmons. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2015 , 5, 680-686	3.4	9
58	The use of combination of nonlinear optical materials to control terahertz pulse generation and detection. <i>Applied Physics Letters</i> , 2008 , 92, 021114	3.4	9
57	Simultaneous generation of second and third optical harmonics on a metal grating. <i>Physical Review B</i> , 2006 , 74,	3.3	9
56	Terahertz Tissue Spectroscopy and Imaging. <i>Series in Medical Physics and Biomedical Engineering</i> , 2010 , 519-617		9
55	Malignant and benign thyroid nodule differentiation through the analysis of blood plasma with terahertz spectroscopy. <i>Biomedical Optics Express</i> , 2021 , 12, 1020-1035	3.5	9
54	Brenkov radiation excited by an ultrashort laser pulse with oblique amplitude front. <i>Radiophysics and Quantum Electronics</i> , 2007 , 50, 922-928	0.7	8
53	From two-beam surface plasmon interaction to femtosecond surface optics and spectroscopy. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2000 , 276, 127-132	2.3	8
52	Studying human and animal skin optical properties by terahertz time-domain spectroscopy. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2016 , 80, 479-483	0.4	8

51	Dipole antennas based on SI-GaAs:Cr for generation and detection of terahertz radiation. <i>Russian Physics Journal</i> , 2013 , 55, 890-898	0.7	6
50	Structure-sensitive changes in the terahertz absorption spectra of merocyanine dye derivatives. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2009 , 107, 505-514	0.7	6
49	Modification of terahertz pulsed spectrometer to study biological samples 2007 , 6535, 481		6
48	Coherently enhanced microwave pulses from midinfrared-driven laser plasmas. <i>Optics Letters</i> , 2021 , 46, 1081-1084	3	6
47	Terahertz response of a polymer composite with high concentration of silicon micro- and nanoparticles. <i>Nanotechnologies in Russia</i> , 2015 , 10, 247-253	0.6	5
46	A Complex Study of the Peculiarities of Blood Serum Absorption of Rats with Experimental Liver Cancer. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2019 , 126, 721-729	0.7	5
45	A flexible terahertz waveguide for delivery and filtering of quantum-cascade laser radiation. <i>Applied Physics Letters</i> , 2018 , 113, 131107	3.4	5
44	Determination of the Boundary Transition Temperatures in Polypropylene on the Basis of Measurements in the Terahertz Band. <i>Radiophysics and Quantum Electronics</i> , 2017 , 60, 409-416	0.7	4
43	THz and IR Spectroscopy of Molecular Systems That Simulate Function-Related Structural Changes of Proteins. <i>Spectroscopy</i> , 2012 , 27, 429-432		4
42	Study of the properties of nanostructured aluminum oxyhydroxide in the terahertz frequency range. <i>Radiophysics and Quantum Electronics</i> , 2012 , 54, 591-599	0.7	4
41	Electronic properties and influence of doping on GaSe crystal nonlinear optical parameters for the applications in terahertz range 2010 ,		4
40	Peculiarities of excitation of surface plasmons upon noncollinear light scattering. <i>Quantum Electronics</i> , 2005 , 35, 27-32	1.8	4
39	Polarization and Spatial Mode Structure of Mid-Infrared-Driven Terahertz-to-Microwave Radiation. <i>ACS Photonics</i> , 2021 , 8, 1988-1996	6.3	4
38	Formation of channel optical waveguides in polymethylmethacrylate with embedded electro-optic chromophore DR13 by the photoinduced bleaching method. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2017 , 122, 469-474	0.7	3
37	In-vitro terahertz spectroscopy of rat skin under the action of dehydrating agents 2014 ,		3
36	Structure-Sensitive Maxima in the Absorption Spectra of Polymers in the Terahertz Frequency Range. <i>Radiophysics and Quantum Electronics</i> , 2015 , 57, 881-890	0.7	3
35	The investigation of blood and skin THz response at high glucose concentration 2015 ,		3
34	Band gaps in the spectra of terahertz surface plasmons on metallic diffraction gratings. <i>JETP Letters</i> , 2009 , 90, 177-180	1.2	3

33	Obtaining terahertz-range metamaterials by laser engraving. <i>Journal of Optical Technology (A Translation of Opticheskii Zhurnal)</i> , 2012 , 79, 251	0.9	3
32	Free-beam spectral self-compression at supercritical peak powers. <i>Optics Letters</i> , 2018 , 43, 5693-5696	3	3
31	Hybrid x-ray laser-plasma/laser-synchrotron facility for pump-probe studies of the extreme state of matter at NRC "Kurchatov Institute". <i>Review of Scientific Instruments</i> , 2021 , 92, 053101	1.7	3
30	Laser formation of Bragg gratings in polymer nanocomposite materials. <i>Quantum Electronics</i> , 2016 , 46, 29-32	1.8	2
29	Optical Properties of Amorphous Perfluorinated Polymers in the Terahertz Range. <i>Journal of Applied Spectroscopy</i> , 2018 , 85, 374-380	0.7	2
28	Thin and thick dielectric films for THz surface plasmon control. <i>Laser Physics</i> , 2013 , 23, 056008	1.2	2
27	Terahertz image processing for the skin cancer diagnostic 2014 ,		2
26	Surface Plasmon Propagation on a Film with Subwavelength Holes in the Terahertz Frequency Range. <i>Radiophysics and Quantum Electronics</i> , 2013 , 55, 634-647	0.7	2
25	Vibrational spectra of corticosteroid hormones in the terahertz range 2010 ,		2
24	Tooth study by terahertz time-domain spectroscopy 2008 ,		2
23	Time-resolved nonlinear surface plasmon optics. <i>JETP Letters</i> , 2002 , 75, 461-464	1.2	2
22	Effect of Edge Plasmon Excitation at Metal Grating on the Second Harmonic Generation of Light. <i>Physica Scripta</i> , 1999 , 60, 60-62	2.6	2
21	Dielectric properties of albumin and glucose solutions in the THz frequency range 2016 ,		2
20	Investigation of bovine serum albumin glycation by THz spectroscopy 2016 ,		2
19	Study of blood and its components by terahertz pulsed spectroscopy. <i>EPJ Web of Conferences</i> , 2018 , 195, 10003	0.3	2
18	On the Fractal Absorption Spectra of Polymers in the Low-Frequency Part of the Terahertz Range. <i>Radiophysics and Quantum Electronics</i> , 2018 , 61, 374-381	0.7	2
17	High-intensity THz pulse generation by TW laser radiation in ionized gas and nonlinear crystals. <i>Journal of Physics: Conference Series</i> , 2020 , 1556, 012008	0.3	1
16	A Method for Measuring the Electro-optical Response of Chromofore-embedded Polymer Films Using a Prism Coupler. <i>Instruments and Experimental Techniques</i> , 2018 , 61, 106-113	0.5	1

15	Application of THz probe radiation in low-coherent tomographs based on spatially separated counterpropagating beams. <i>Quantum Electronics</i> , 2013 , 43, 958-967	1.8	1
14	Polymer matrix with nanoparticles as a high refraction material for the waveguides 2013 ,		1
13	Characterization of highly doped Si with surface plasmon 2013 ,		1
12	Heavy ions irradiated crystal GaAs as an active non-linear matrix for the generation of THz radiation. <i>Radiation Measurements</i> , 2008 , 43, S591-S593	1.5	1
11	Terahertz time-domain spectroscopy and spectrochronography of amino acids and polypeptides 2006 ,		1
10	Brewster angles for a dissipative film structure 2020 , 63, 672-679	0.2	1
9	Broadband terahertz generation by optical rectification of ultrashort multiterawatt laser pulses near the beam breakup threshold. <i>Optics Letters</i> , 2021 , 46, 5866-5869	3	1
8	Application of terahertz time-domain spectroscopy for blood glucose monitoring 2016 ,		1
7	Sensitivity of Reflecting Terahertz Sensors of Aqueous Solutions. <i>Technical Physics</i> , 2021 , 66, 305-315	0.5	1
6	Spectroscopy of solutions in the low frequency extended THz frequency range. <i>EPJ Web of Conferences</i> , 2018 , 195, 10008	0.3	1
5	Response to Comment on GaSe _{1-x} S _x and GaSe _{1-x} Te _x thick crystals for broadband terahertz pulses generation [Appl. Phys. Lett. 100, 136103 (2012)]. <i>Applied Physics Letters</i> , 2012 , 100, 136104	3-4	0
4	Terahertz pulse plasmon interaction with metal grating 2006 , 6194, 171		
3	Ultrabroadband Characterization of Microwave-to-Terahertz Supercontinua Driven by Ultrashort Pulses in the Mid-Infrared. <i>Journal of Lightwave Technology</i> , 2021 , 1-1	4	
2	Polymer waveguides for THz QCL radiation delivery and filtering. <i>EPJ Web of Conferences</i> , 2018 , 195, 04005	0.3	
1	Photonic crystal fibers formed by air channels with a corrugated boundary. <i>Journal of Physics: Conference Series</i> , 2018 , 1096, 012004	0.3	