Gennadii A Komandin

List of Publications by Year in Descending Order

107 papers	1,080 citations	17 h-index	28 g-index
121 ext. papers	1,345 ext. citations	1.8 avg, IF	4.1 L-index

#	Paper	IF	Citations
107	Optical characteristics of LaNiO3 thin films in the terahertz–infrared frequency range. *Journal of Applied Physics*, **2022**, 131, 025305	2.5	1
106	Quantification of solid-phase chemical reactions using the temperature-dependent terahertz pulsed spectroscopy, sum rule, and Arrhenius theory: thermal decomposition of α-lactose monohydrate.. *Optics Express*, **2022**, 30, 9208-9221	3.3	2
105	Long-wavelength optical properties of the Ca0.33Sr0.33Ba0.33F2 solid solution single crystals. *Optical Materials*, **2022**, 127, 112267	3.3	
104	Terahertz dielectric spectroscopy of human brain gliomas and intact tissues : double-Debye and double-overdamped-oscillator models of dielectric response. *Biomedical Optics Express*, **2021**, 12, 69-83	3.5	18
103	The optical transparency investigation of crystals based on the AgHal – TlHal solid solutions systems in the terahertz range. *Optical Materials*, **2021**, 113, 110870	3.3	3
102	Dielectric contribution of the IR absorption bands of porous organosilicate glass thin films on a platinum sublayer. *Journal Physics D: Applied Physics*, **2021**, 54, 215304	3	3
101	Ultrafast, high modulation depth terahertz modulators based on carbon nanotube thin films. *Carbon*, **2021**, 173, 245-252	10.4	12
100	Diamond diffractive lens with a continuous profile for powerful terahertz radiation. *Optics Letters*, **2021**, 46, 340-343	3	5
99	Moisture adsorption by decellularized bovine pericardium collagen matrices studied by terahertz pulsed spectroscopy and solid immersion microscopy. *Biomedical Optics Express*, **2021**, 12, 5368-5386	3.5	6
98	Terahertz and Infrared Spectroscopy of Dense and Porous Organosilicate Glass Thin Films. *Doklady Physics*, **2020**, 65, 51-56	0.8	1
97	Dielectric Loss of Thin-Film SiO2 Samples on Al in THz–IR Range. *Physics of the Solid State*, **2020**, 62, 267-272	0.8	2
96	Proof of concept for continuously-tunable terahertz bandpass filter based on a gradient metal-hole array. *Optics Express*, **2020**, 28, 26228-26238	3.3	13
95	Nanoporous SiO2 based on annealed artificial opals as a favorable material platform of terahertz optics. *Optical Materials Express*, **2020**, 10, 2100	2.6	8
94	Prospects of terahertz technology in diagnosis of human brain tumors—A review. *Journal of Biomedical Photonics and Engineering*, **2020**, 6,	2.4	13
93	Assessment of the application of paratellurite for the acousto-optical deflection of terahertz rays based on broadband spectroscopy data. *Journal Physics D: Applied Physics*, **2020**, 53, 495102	3	1
92	The progress and perspectives of terahertz technology for diagnosis of neoplasms: a review. *Journal of Optics (United Kingdom)*, **2020**, 22, 013001	1.7	79
91	Silicon kinoform cylindrical lens with low surface roughness for high-power terahertz radiation. *Optics and Laser Technology*, **2020**, 123, 105953	4.2	8

90	Temperature Evolution of the Dielectric Response of α-Lactose Monohydrate in the THz Frequency Range. *Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)*, **2020**, 128, 752-758	0.7	1
89	Determination of Electrodynamic Parameters of In2O3 thin Films by Terahertz and Infrared Spectroscopy. *Journal of Surface Investigation*, **2020**, 14, 544-546	0.5	
88	The Influence of Defects on the Absorption of Terahertz Radiation in a CdSiP2 Single Crystal. *Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)*, **2020**, 128, 1004-1009	0.7	
87	Optical Properties of Hyperosmotic Agents for Immersion Clearing of Tissues in Terahertz Spectroscopy. *Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)*, **2020**, 128, 1026-1035	0.7	4
86	Optimal hyperosmotic agents for tissue immersion optical clearing in terahertz biophotonics. *Journal of Biophotonics*, **2020**, 13, e202000297	3.1	14
85	Broadband spectroscopy of astrophysical ice analogues. *Astronomy and Astrophysics*, **2019**, 629, A112	5.1	21
84	Electrodynamical Characteristics of α-Lactose Monohydrate in the Terahertz Range. *Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)*, **2019**, 126, 514-522	0.7	18
83	Spectral kinetic study of four-component BaF2–ZnF2–CdF2-YbF3 fluoride ceramics by selective laser excitation. *Optical Materials*, **2019**, 94, 113-120	3.3	3
82	Absorption Spectra of Single Crystals and Optical Ceramics of Fluorite in the THz and IR Ranges. *Doklady Physics*, **2019**, 64, 271-275	0.8	2
81	Boron 10B–11B Isotope Substitution as a Probe of the Mechanism Responsible for the Record Thermionic Emission in LaB6 with the Jahn–Teller Instability1. *JETP Letters*, **2019**, 110, 79-84	1.2	1
80	Collective infrared excitation in rare-earth GdxLa1–xB6 hexaborides. *Physical Review B*, **2019**, 100,	3.3	4
79	Terahertz spectroscopy of gelatin-embedded human brain gliomas of different grades: a road toward intraoperative THz diagnosis. *Journal of Biomedical Optics*, **2019**, 24, 1-5	3.5	53
78	Optical cryostat with sample rotating unit for polarization-sensitive terahertz and infrared spectroscopy. *Optical Engineering*, **2019**, 59, 1	1.1	16
77	Differentiation of healthy and malignant brain tissues using terahertz pulsed spectroscopy and optical coherence tomography **2019**,		2
76	A comparison of terahertz optical constants and diffusion coefficients of tissue immersion optical clearing agents **2019**,		3
75	A method for reconstruction of terahertz dielectric response of thin liquid samples **2019**,		1
74	Effect of moisture adsorption on the broadband dielectric response of SiO2-based nanoporous glass. *Journal of Applied Physics*, **2019**, 126, 224303	2.5	11
73	Observation of dynamic charge stripes in TmYbB at the metal-insulator transition. *Journal of Physics Condensed Matter*, **2019**, 31, 065604	1.8	13

72	The optical characteristics of the nonlinear optical single crystal CdSiP2 in the terahertz and infrared ranges. *Materials Research Express*, **2019**, 6, 026204	1.7	2
71	Shaping the spectrum of terahertz photoconductive antenna by frequency-dependent impedance modulation. *Semiconductor Science and Technology*, **2019**, 34, 034005	1.8	24
70	Collective Infrared Excitation in LuB12 Cage-Glass. *JETP Letters*, **2018**, 107, 100-105	1.2	9
69	Fabrication and electrodynamic properties of all-carbon terahertz planar metamaterials by laser direct-write. *Laser Physics Letters*, **2018**, 15, 036201	1.5	9
68	Wide-Aperture Aspheric Optics for Formation of Subwavelength Caustics of a Terahertz Electromagnetic-Radiation Beam. *Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)*, **2018**, 124, 428-436	0.7	6
67	The Mechanisms of Absorption of Terahertz and Infrared Radiation in PZT Films. *Physics of the Solid State*, **2018**, 60, 1226-1234	0.8	1
66	All-carbon diamond/graphite metasurface: Experiment and modeling. *Applied Physics Letters*, **2018**, 113, 041101	3.4	8
65	Sub-wavelength-resolution imaging of biological tissues using THz solid immersion microscopy **2018**,		1
64	Terahertz solid immersion microscopy for sub-wavelength-resolution imaging of biological objects and tissues **2018**,		4
63	In vitro terahertz spectroscopy of gelatin-embedded human brain tumors: a pilot study **2018**,		6
62	Terahertz spectroscopy of immersion optical clearing agents: DMSO, PG, EG, PEG **2018**,		4
61	Terahertz time-domain spectroscopy of astrophysical ice analogs: A pilot study. *EPJ Web of Conferences*, **2018**, 195, 06004	0.3	1
60	Electrodynamic Characteristics of Solid Solutions Pb(Fe1 □xScx)2/3W1/3O3 in a Broad Spectral Range. *Physics of the Solid State*, **2018**, 60, 2440-2449	0.8	
59	Intraoperative diagnosis of malignant brain gliomas using terahertz pulsed spectroscopy and optical coherence tomography. *EPJ Web of Conferences*, **2018**, 195, 10018	0.3	
58	Biomedical applications of terahertz solid immersion microscopy. *EPJ Web of Conferences*, **2018**, 195, 10017	0.3	1
57	Sapphire shaped crystals for waveguiding, sensing and exposure applications. *Progress in Crystal Growth and Characterization of Materials*, **2018**, 64, 133-151	3.5	39
56	Sapphire Photonic Crystal Waveguides for Terahertz Sensing in Aggressive Environments. *Advanced Optical Materials*, **2018**, 6, 1800573	8.1	29
55	Application potential of paratellurite and iodic acid crystals for acousto-optics in the Terahertz range. *Physics of Wave Phenomena*, **2017**, 25, 114-118	1.2	3

54	Electrodynamic response of Ca1 □x Pb x TiO3 two-phase solid solution in a wide frequency range. *Physics of the Solid State*, **2017**, 59, 1094-1102	0.8	2
53	Temperature evolution of the dielectric response function of Pb(Fe0.95Sc0.05)2/3W1/3O3 relaxor ceramics in a wide frequency range. *Physics of the Solid State*, **2017**, 59, 2365-2373	0.8	3
52	Electrodynamic properties of porous PZT-Pt films at terahertz frequency range. *Physica Status Solidi C: Current Topics in Solid State Physics*, **2016**, 14, 1600211		6
51	Terahertz spectroscopy of crystal-field transitions in magnetoelectric TmAl3(BO3)4. *Physical Review B*, **2016**, 94,	3.3	6
50	Dielectric response of SrTiO3–SrMg1/3Nb2/3O3 solid solutions in the terahertz–infrared range. *Physics of the Solid State*, **2016**, 58, 545-550	0.8	1
49	Terahertz-infrared electrodynamics of lead zirconate-titanate films on a platinum sublayer. *Physics of the Solid State*, **2015**, 57, 1155-1159	0.8	1
48	Effect of electron irradiation of ZnGeP2 single crystals on terahertz losses in a wide temperature range. *Physics of the Solid State*, **2015**, 57, 1607-1612	0.8	10
47	Electrodynamic characteristics of berillium oxide in the submillimeter-infrared band. *Physics of the Solid State*, **2015**, 57, 2389-2399	0.8	1
46	Giant LO-TO Frequency Splitting of the Soft Mode in Perovskites. *Ferroelectrics*, **2014**, 463, 1-7	0.6	3
45	Electrodynamic properties of lead Zirconate-Titanate thin films in the terahertz frequency range. *Physics of the Solid State*, **2014**, 56, 2206-2212	0.8	6
44	Analysis of electric properties of ZrO2-Y2O3 single crystals using teraherz IR and impedance spectroscopy techniques. *Russian Journal of Electrochemistry*, **2014**, 50, 690-693	1.2	13
43	Mechanisms of loss formation in nonlinear optical crystals ZnGeP2 in the terahertz frequency range. *Physics of the Solid State*, **2014**, 56, 1391-1396	0.8	7
42	Influence of rare-earth ions on the dielectric response in stillwellite glasses. *Physics of the Solid State*, **2014**, 56, 442-448	0.8	3
41	Temperature evolution of dielectric response spectra of stillwellite-like glasses in the terahertz and infrared ranges. *Physics of the Solid State*, **2014**, 56, 1200-1205	0.8	
40	Terahertz-infrared spectra of the rare-earth scandate DyScO3 single crystal. *Journal of Applied Physics*, **2013**, 114, 024102	2.5	13
39	Dynamic spectral response of solid solutions of the bismuth-strontium ferrite Bi1 □x Sr x FeO3 □□ in the frequency range 0.3–200 THz. *Physics of the Solid State*, **2013**, 55, 1417-1430	0.8	2
38	On the problem of the LO-TO splitting of the soft mode in CaTiO3. *Physics of the Solid State*, **2013**, 55, 1236-1241	0.8	4
37	Dielectric response of (Ba,Sr)TiO3 thin films in a terahertz and IR ranges. *Physics of the Solid State*, **2013**, 55, 288-292	0.8	6

36	BWO Generators for Terahertz Dielectric Measurements. *IEEE Transactions on Terahertz Science and Technology*, **2013**, 3, 440-444	3.4	56
35	Observation of an intersublattice exchange magnon in CoCr2O4 and analysis of magnetic ordering. *Physical Review B*, **2013**, 87,	3.3	23
34	A terahertz radiation spectrum analyzer. *Instruments and Experimental Techniques*, **2012**, 55, 149-150	0.5	
33	Magnetic and dielectric response of cobalt-chromium spinel CoCr2O4 in the terahertz frequency range. *Physics of the Solid State*, **2012**, 54, 350-359	0.8	28
32	Effect of BiFeO3 ceramics morphology on electrodynamic properties in the terahertz frequency range. *Physics of the Solid State*, **2012**, 54, 1191-1198	0.8	6
31	B-T phase diagram of CoCr2O4 in magnetic fields up to 14 T. *Physical Review B*, **2012**, 85,	3.3	33
30	Electrodynamic characteristics of the LaBGeO5 and LaBSiO5 glasses in the terahertz and infrared ranges. *Physics of the Solid State*, **2012**, 54, 2189-2197	0.8	4
29	Terahertz Measurements for Wideband Dielectric Spectral Panoramas. *Ferroelectrics*, **2012**, 441, 48-51	0.6	
28	Wire-grid THz polarizers manufactured by laser micromachining of metal films on a polymer membrane **2011**,		2
27	Polarization modes in the Ba2Mg2Fe12O22 multiferroic. *Physics of the Solid State*, **2011**, 53, 736-744	0.8	4
26	Optical properties of BiFeO3 ceramics in the frequency range 0.3–40.0 THz. *Physics of the Solid State*, **2010**, 52, 734-743	0.8	41
25	Dielectric spectra of Bi0.98Nd0.02FeO3.00 multiferroic thin films in the terahertz frequency range. *Physics of the Solid State*, **2010**, 52, 1842-1849	0.8	8
24	Structure of lanthanum-borogermanate glass with stillwellite composition according to vibrational spectroscopy data. *Glass and Ceramics (English Translation of Steklo I Keramika)*, **2010**, 67, 105-108	0.6	17
23	Experimental observation of configuration modes of bistable centers in CdF2:In crystals **2010**, 106, 326		
22	A unified terahertz radiation source based on a backward-wave tube. *Instruments and Experimental Techniques*, **2009**, 52, 376-379	0.5	1
21	Terahertz dielectric spectra of (Ba,Sr)TiO3 thin films. *Physics of the Solid State*, **2009**, 51, 1351-1355	0.8	14
20	Multiphonon absorption in a MgO single crystal in the terahertz range. *Physics of the Solid State*, **2009**, 51, 2045-2050	0.8	17
19	Experimental observation of configuration modes of bistable centers in CdF2:In crystals. *Journal of Experimental and Theoretical Physics*, **2008**, 106, 326-333	1	1

18	Dielectric properties of nanometer-thick barium-strontium titanate films. *Technical Physics*, **2008**, 53, 1485-1489	0.5	6
17	On relationship of atomic structure, nano-sized inhomogeneities and second-order optical non-linearity of K2O□TiO2□P2O5 glasses. *Journal of Non-Crystalline Solids*, **2006**, 352, 4142-4148	3.9	7
16	Raman and dielectric spectra of the glass and single crystal of Li2Ge7O15 in the frequency range 3□1000 cm□1: I. Comparison of the structures of the crystal and initial glass. *Glass Physics and Chemistry*, **2006**, 32, 296-303	0.7	1
15	Raman and dielectric spectra of the glass and single crystal of the composition Li2Ge7O15 in the frequency range 3□1000 cm□1: II. The influence of phase separation. *Glass Physics and Chemistry*, **2006**, 32, 497-504	0.7	4
14	Correlation between atomic structure, structural nanoinhomogeneity, and quadratic optical nonlinearity in glasses of the K2O-TiO2-P2O5 system. *Glass and Ceramics (English Translation of Steklo I Keramika)*, **2006**, 63, 7-11	0.6	2
13	Soft polar modes and phase states of Ca1□ PbxTiO3 solid solutions. *Physics of the Solid State*, **2004**, 46, 927-941	0.8	10
12	On the Polar Structural Fragments in Glasses from Dielectric Spectroscopic Data. *Glass Physics and Chemistry*, **2003**, 29, 431-437	0.7	3
11	High-power CO 2 laser radiation conversion by means of AgGaSe 2 and AgGa (1-x) In(x)Se 2 crystals **2000**, 3889, 538		
10	BWO-Characterization of Materials and Devices at Frequencies 100-1000 GHz. *Materials Research Society Symposia Proceedings*, **2000**, 631, 291		
9	Dielectric response of antiferroelectric PLZT 2/95/5 ceramics in the range of 10 -1014 Hz and 10 -530K. *Ferroelectrics*, **1999**, 223, 247-254	0.6	8
8	Optical Phonons and Ferroelectric Phase Transition in the LaBGeO5 Crystal. *Physica Status Solidi (B): Basic Research*, **1999**, 214, 423-439	1.3	24
7	Infrared and microwave dielectric response of the disordered antiferroelectric Ag(Ta,Nb)O3 system. *Ferroelectrics*, **1999**, 223, 235-246	0.6	46
6	Infrared dielectric response of the La2/3TiO3□LaAlO3 microwave ceramics system. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **1998**, 57, 40-45	3.1	16
5	Loss spectra of pure and La-doped MgTiO3 microwave ceramics. *Journal of Materials Research*, **1995**, 10, 2301-2305	2.5	14
4	High-frequency dielectric spectra of AgTaO3-AgNbO3mixed ceramics. *Journal of Physics Condensed Matter*, **1995**, 7, 785-793	1.8	57
3	Far-infrared dielectric response of PbTiO3and PbZr1-xTixO3thin ferroelectric films. *Journal of Physics Condensed Matter*, **1995**, 7, 4313-4323	1.8	42
2	Subterahertz BWO spectroscopy: methods and devices		1
1	Quantitative super-resolution solid immersion microscopy via refractive index profile reconstruction. *Optica*,	8.6	6