

# Gennadii A Komandin

## List of Publications by Citations

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107  
papers

1,080  
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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	The progress and perspectives of terahertz technology for diagnosis of neoplasms: a review. <i>Journal of Optics (United Kingdom)</i> , <b>2020</b> , 22, 013001	1.7	79
106	High-frequency dielectric spectra of AgTaO <sub>3</sub> -AgNbO <sub>3</sub> mixed ceramics. <i>Journal of Physics Condensed Matter</i> , <b>1995</b> , 7, 785-793	1.8	57
105	BWO Generators for Terahertz Dielectric Measurements. <i>IEEE Transactions on Terahertz Science and Technology</i> , <b>2013</b> , 3, 440-444	3.4	56
104	Terahertz spectroscopy of gelatin-embedded human brain gliomas of different grades: a road toward intraoperative THz diagnosis. <i>Journal of Biomedical Optics</i> , <b>2019</b> , 24, 1-5	3.5	53
103	Infrared and microwave dielectric response of the disordered antiferroelectric Ag(Ta,Nb)O <sub>3</sub> system. <i>Ferroelectrics</i> , <b>1999</b> , 223, 235-246	0.6	46
102	Far-infrared dielectric response of PbTiO <sub>3</sub> and PbZr <sub>1-x</sub> Ti <sub>x</sub> O <sub>3</sub> thin ferroelectric films. <i>Journal of Physics Condensed Matter</i> , <b>1995</b> , 7, 4313-4323	1.8	42
101	Optical properties of BiFeO <sub>3</sub> ceramics in the frequency range 0.3-0.0 THz. <i>Physics of the Solid State</i> , <b>2010</b> , 52, 734-743	0.8	41
100	Sapphire shaped crystals for waveguiding, sensing and exposure applications. <i>Progress in Crystal Growth and Characterization of Materials</i> , <b>2018</b> , 64, 133-151	3.5	39
99	B-T phase diagram of CoCr <sub>2</sub> O <sub>4</sub> in magnetic fields up to 14 T. <i>Physical Review B</i> , <b>2012</b> , 85,	3.3	33
98	Sapphire Photonic Crystal Waveguides for Terahertz Sensing in Aggressive Environments. <i>Advanced Optical Materials</i> , <b>2018</b> , 6, 1800573	8.1	29
97	Magnetic and dielectric response of cobalt-chromium spinel CoCr <sub>2</sub> O <sub>4</sub> in the terahertz frequency range. <i>Physics of the Solid State</i> , <b>2012</b> , 54, 350-359	0.8	28
96	Optical Phonons and Ferroelectric Phase Transition in the LaBGeO <sub>5</sub> Crystal. <i>Physica Status Solidi (B): Basic Research</i> , <b>1999</b> , 214, 423-439	1.3	24
95	Shaping the spectrum of terahertz photoconductive antenna by frequency-dependent impedance modulation. <i>Semiconductor Science and Technology</i> , <b>2019</b> , 34, 034005	1.8	24
94	Observation of an intersublattice exchange magnon in CoCr <sub>2</sub> O <sub>4</sub> and analysis of magnetic ordering. <i>Physical Review B</i> , <b>2013</b> , 87,	3.3	23
93	Broadband spectroscopy of astrophysical ice analogues. <i>Astronomy and Astrophysics</i> , <b>2019</b> , 629, A112	5.1	21
92	Electrodynamical Characteristics of Lactose Monohydrate in the Terahertz Range. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , <b>2019</b> , 126, 514-522	0.7	18
91	Terahertz dielectric spectroscopy of human brain gliomas and intact tissues : double-Debye and double-overdamped-oscillator models of dielectric response. <i>Biomedical Optics Express</i> , <b>2021</b> , 12, 69-83	3.5	18

90	Multiphonon absorption in a MgO single crystal in the terahertz range. <i>Physics of the Solid State</i> , <b>2009</b> , 51, 2045-2050	0.8	17
89	Structure of lanthanum-borogermanate glass with stillwellite composition according to vibrational spectroscopy data. <i>Glass and Ceramics (English Translation of Steklo I Keramika)</i> , <b>2010</b> , 67, 105-108	0.6	17
88	Infrared dielectric response of the La <sub>2/3</sub> TiO <sub>3</sub> ∕AlO <sub>3</sub> microwave ceramics system. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>1998</b> , 57, 40-45	3.1	16
87	Optical cryostat with sample rotating unit for polarization-sensitive terahertz and infrared spectroscopy. <i>Optical Engineering</i> , <b>2019</b> , 59, 1	1.1	16
86	Terahertz dielectric spectra of (Ba,Sr)TiO <sub>3</sub> thin films. <i>Physics of the Solid State</i> , <b>2009</b> , 51, 1351-1355	0.8	14
85	Loss spectra of pure and La-doped MgTiO <sub>3</sub> microwave ceramics. <i>Journal of Materials Research</i> , <b>1995</b> , 10, 2301-2305	2.5	14
84	Optimal hyperosmotic agents for tissue immersion optical clearing in terahertz biophotonics. <i>Journal of Biophotonics</i> , <b>2020</b> , 13, e202000297	3.1	14
83	Analysis of electric properties of ZrO <sub>2</sub> -Y <sub>2</sub> O <sub>3</sub> single crystals using terahertz IR and impedance spectroscopy techniques. <i>Russian Journal of Electrochemistry</i> , <b>2014</b> , 50, 690-693	1.2	13
82	Terahertz-infrared spectra of the rare-earth scandate DyScO <sub>3</sub> single crystal. <i>Journal of Applied Physics</i> , <b>2013</b> , 114, 024102	2.5	13
81	Proof of concept for continuously-tunable terahertz bandpass filter based on a gradient metal-hole array. <i>Optics Express</i> , <b>2020</b> , 28, 26228-26238	3.3	13
80	Prospects of terahertz technology in diagnosis of human brain tumors [A review]. <i>Journal of Biomedical Photonics and Engineering</i> , <b>2020</b> , 6,	2.4	13
79	Observation of dynamic charge stripes in TmYbB at the metal-insulator transition. <i>Journal of Physics Condensed Matter</i> , <b>2019</b> , 31, 065604	1.8	13
78	Ultrafast, high modulation depth terahertz modulators based on carbon nanotube thin films. <i>Carbon</i> , <b>2021</b> , 173, 245-252	10.4	12
77	Effect of moisture adsorption on the broadband dielectric response of SiO <sub>2</sub> -based nanoporous glass. <i>Journal of Applied Physics</i> , <b>2019</b> , 126, 224303	2.5	11
76	Effect of electron irradiation of ZnGeP <sub>2</sub> single crystals on terahertz losses in a wide temperature range. <i>Physics of the Solid State</i> , <b>2015</b> , 57, 1607-1612	0.8	10
75	Soft polar modes and phase states of Ca <sub>1-x</sub> Pb <sub>x</sub> TiO <sub>3</sub> solid solutions. <i>Physics of the Solid State</i> , <b>2004</b> , 46, 927-941	0.8	10
74	Collective Infrared Excitation in LuB <sub>12</sub> Cage-Glass. <i>JETP Letters</i> , <b>2018</b> , 107, 100-105	1.2	9
73	Fabrication and electrodynamic properties of all-carbon terahertz planar metamaterials by laser direct-write. <i>Laser Physics Letters</i> , <b>2018</b> , 15, 036201	1.5	9

72	All-carbon diamond/graphite metasurface: Experiment and modeling. <i>Applied Physics Letters</i> , <b>2018</b> , 113, 041101	3.4	8
71	Dielectric spectra of Bi <sub>0.98</sub> Nd <sub>0.02</sub> FeO <sub>3.00</sub> multiferroic thin films in the terahertz frequency range. <i>Physics of the Solid State</i> , <b>2010</b> , 52, 1842-1849	0.8	8
70	Dielectric response of antiferroelectric PLZT 2/95/5 ceramics in the range of 10 -10 <sup>14</sup> Hz and 10 -530K. <i>Ferroelectrics</i> , <b>1999</b> , 223, 247-254	0.6	8
69	Nanoporous SiO <sub>2</sub> based on annealed artificial opals as a favorable material platform of terahertz optics. <i>Optical Materials Express</i> , <b>2020</b> , 10, 2100	2.6	8
68	Silicon kinoform cylindrical lens with low surface roughness for high-power terahertz radiation. <i>Optics and Laser Technology</i> , <b>2020</b> , 123, 105953	4.2	8
67	Mechanisms of loss formation in nonlinear optical crystals ZnGeP <sub>2</sub> in the terahertz frequency range. <i>Physics of the Solid State</i> , <b>2014</b> , 56, 1391-1396	0.8	7
66	On relationship of atomic structure, nano-sized inhomogeneities and second-order optical non-linearity of K <sub>2</sub> O-TiO <sub>2</sub> -P <sub>2</sub> O <sub>5</sub> glasses. <i>Journal of Non-Crystalline Solids</i> , <b>2006</b> , 352, 4142-4148	3.9	7
65	Wide-Aperture Aspheric Optics for Formation of Subwavelength Caustics of a Terahertz Electromagnetic-Radiation Beam. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , <b>2018</b> , 124, 428-436	0.7	6
64	Electrodynamic properties of porous PZT-Pt films at terahertz frequency range. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2016</b> , 14, 1600211		6
63	Terahertz spectroscopy of crystal-field transitions in magnetoelectric TmAl <sub>3</sub> (BO <sub>3</sub> ) <sub>4</sub> . <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	6
62	Electrodynamic properties of lead Zirconate-Titanate thin films in the terahertz frequency range. <i>Physics of the Solid State</i> , <b>2014</b> , 56, 2206-2212	0.8	6
61	Effect of BiFeO <sub>3</sub> ceramics morphology on electrodynamic properties in the terahertz frequency range. <i>Physics of the Solid State</i> , <b>2012</b> , 54, 1191-1198	0.8	6
60	Dielectric response of (Ba,Sr)TiO <sub>3</sub> thin films in a terahertz and IR ranges. <i>Physics of the Solid State</i> , <b>2013</b> , 55, 288-292	0.8	6
59	Dielectric properties of nanometer-thick barium-strontium titanate films. <i>Technical Physics</i> , <b>2008</b> , 53, 1485-1489	0.5	6
58	In vitro terahertz spectroscopy of gelatin-embedded human brain tumors: a pilot study <b>2018</b> ,		6
57	Quantitative super-resolution solid immersion microscopy via refractive index profile reconstruction. <i>Optica</i> ,	8.6	6
56	Moisture adsorption by decellularized bovine pericardium collagen matrices studied by terahertz pulsed spectroscopy and solid immersion microscopy. <i>Biomedical Optics Express</i> , <b>2021</b> , 12, 5368-5386	3.5	6
55	Diamond diffractive lens with a continuous profile for powerful terahertz radiation. <i>Optics Letters</i> , <b>2021</b> , 46, 340-343	3	5

54	Collective infrared excitation in rare-earth Gd <sub>1-x</sub> La <sub>x</sub> B <sub>6</sub> hexaborides. <i>Physical Review B</i> , <b>2019</b> , 100, 3-3	4
53	On the problem of the LO-TO splitting of the soft mode in CaTiO <sub>3</sub> . <i>Physics of the Solid State</i> , <b>2013</b> , 55, 1236-1241	0.8 4
52	Electrodynamical characteristics of the LaBGeO <sub>5</sub> and LaBSiO <sub>5</sub> glasses in the terahertz and infrared ranges. <i>Physics of the Solid State</i> , <b>2012</b> , 54, 2189-2197	0.8 4
51	Polarization modes in the Ba <sub>2</sub> Mg <sub>2</sub> Fe <sub>12</sub> O <sub>22</sub> multiferroic. <i>Physics of the Solid State</i> , <b>2011</b> , 53, 736-744	0.8 4
50	Raman and dielectric spectra of the glass and single crystal of the composition Li <sub>2</sub> Ge <sub>7</sub> O <sub>15</sub> in the frequency range 30000 cm <sup>-1</sup> : II. The influence of phase separation. <i>Glass Physics and Chemistry</i> , <b>2006</b> , 32, 497-504	0.7 4
49	Terahertz solid immersion microscopy for sub-wavelength-resolution imaging of biological objects and tissues <b>2018</b> ,	4
48	Terahertz spectroscopy of immersion optical clearing agents: DMSO, PG, EG, PEG <b>2018</b> ,	4
47	Optical Properties of Hyperosmotic Agents for Immersion Clearing of Tissues in Terahertz Spectroscopy. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , <b>2020</b> , 128, 1026-1035	0.7 4
46	Application potential of paratellurite and iodic acid crystals for acousto-optics in the Terahertz range. <i>Physics of Wave Phenomena</i> , <b>2017</b> , 25, 114-118	1.2 3
45	Spectral kinetic study of four-component BaF <sub>2</sub> /ZnF <sub>2</sub> /LaF <sub>3</sub> -YbF <sub>3</sub> fluoride ceramics by selective laser excitation. <i>Optical Materials</i> , <b>2019</b> , 94, 113-120	3-3 3
44	Giant LO-TO Frequency Splitting of the Soft Mode in Perovskites. <i>Ferroelectrics</i> , <b>2014</b> , 463, 1-7	0.6 3
43	Influence of rare-earth ions on the dielectric response in stillwellite glasses. <i>Physics of the Solid State</i> , <b>2014</b> , 56, 442-448	0.8 3
42	Temperature evolution of the dielectric response function of Pb(Fe <sub>0.95</sub> Sc <sub>0.05</sub> ) <sub>2</sub> /3W <sub>1</sub> /3O <sub>3</sub> relaxor ceramics in a wide frequency range. <i>Physics of the Solid State</i> , <b>2017</b> , 59, 2365-2373	0.8 3
41	On the Polar Structural Fragments in Glasses from Dielectric Spectroscopic Data. <i>Glass Physics and Chemistry</i> , <b>2003</b> , 29, 431-437	0.7 3
40	A comparison of terahertz optical constants and diffusion coefficients of tissue immersion optical clearing agents <b>2019</b> ,	3
39	The optical transparency investigation of crystals based on the AgHal /LiHal solid solutions systems in the terahertz range. <i>Optical Materials</i> , <b>2021</b> , 113, 110870	3-3 3
38	Dielectric contribution of the IR absorption bands of porous organosilicate glass thin films on a platinum sublayer. <i>Journal Physics D: Applied Physics</i> , <b>2021</b> , 54, 215304	3 3
37	Electrodynamical response of Ca <sub>1-x</sub> Pb <sub>x</sub> TiO <sub>3</sub> two-phase solid solution in a wide frequency range. <i>Physics of the Solid State</i> , <b>2017</b> , 59, 1094-1102	0.8 2

36	Dielectric Loss of Thin-Film SiO <sub>2</sub> Samples on Al in THz-IR Range. <i>Physics of the Solid State</i> , <b>2020</b> , 62, 267-278		2
35	Absorption Spectra of Single Crystals and Optical Ceramics of Fluorite in the THz and IR Ranges. <i>Doklady Physics</i> , <b>2019</b> , 64, 271-275	0.8	2
34	Dynamic spectral response of solid solutions of the bismuth-strontium ferrite Bi <sub>1-x</sub> Sr <sub>x</sub> FeO <sub>3</sub> in the frequency range 0.3-0.0 THz. <i>Physics of the Solid State</i> , <b>2013</b> , 55, 1417-1430	0.8	2
33	Wire-grid THz polarizers manufactured by laser micromachining of metal films on a polymer membrane <b>2011</b> ,		2
32	Correlation between atomic structure, structural nanoinhomogeneity, and quadratic optical nonlinearity in glasses of the K <sub>2</sub> O-TiO <sub>2</sub> -P <sub>2</sub> O <sub>5</sub> system. <i>Glass and Ceramics (English Translation of Steklo I Keramika)</i> , <b>2006</b> , 63, 7-11	0.6	2
31	Differentiation of healthy and malignant brain tissues using terahertz pulsed spectroscopy and optical coherence tomography <b>2019</b> ,		2
30	The optical characteristics of the nonlinear optical single crystal CdSiP <sub>2</sub> in the terahertz and infrared ranges. <i>Materials Research Express</i> , <b>2019</b> , 6, 026204	1.7	2
29	Quantification of solid-phase chemical reactions using the temperature-dependent terahertz pulsed spectroscopy, sum rule, and Arrhenius theory: thermal decomposition of D-lactose monohydrate.. <i>Optics Express</i> , <b>2022</b> , 30, 9208-9221	3.3	2
28	Terahertz-infrared electrodynamic of lead zirconate-titanate films on a platinum sublayer. <i>Physics of the Solid State</i> , <b>2015</b> , 57, 1155-1159	0.8	1
27	Terahertz and Infrared Spectroscopy of Dense and Porous Organosilicate Glass Thin Films. <i>Doklady Physics</i> , <b>2020</b> , 65, 51-56	0.8	1
26	Dielectric response of SrTiO <sub>3</sub> B <sub>1/3</sub> Mg <sub>1/3</sub> Nb <sub>2/3</sub> O <sub>3</sub> solid solutions in the terahertz-infrared range. <i>Physics of the Solid State</i> , <b>2016</b> , 58, 545-550	0.8	1
25	The Mechanisms of Absorption of Terahertz and Infrared Radiation in PZT Films. <i>Physics of the Solid State</i> , <b>2018</b> , 60, 1226-1234	0.8	1
24	Sub-wavelength-resolution imaging of biological tissues using THz solid immersion microscopy <b>2018</b> ,		1
23	Boron 10B-11B Isotope Substitution as a Probe of the Mechanism Responsible for the Record Thermionic Emission in LaB <sub>6</sub> with the Jahn-Teller Instability <sup>1</sup> . <i>JETP Letters</i> , <b>2019</b> , 110, 79-84	1.2	1
22	Electrodynamic characteristics of berillium oxide in the submillimeter-infrared band. <i>Physics of the Solid State</i> , <b>2015</b> , 57, 2389-2399	0.8	1
21	A unified terahertz radiation source based on a backward-wave tube. <i>Instruments and Experimental Techniques</i> , <b>2009</b> , 52, 376-379	0.5	1
20	Experimental observation of configuration-modes of bistable centers in CdF <sub>2</sub> :In crystals. <i>Journal of Experimental and Theoretical Physics</i> , <b>2008</b> , 106, 326-333	1	1
19	Raman and dielectric spectra of the glass and single crystal of Li <sub>2</sub> Ge <sub>7</sub> O <sub>15</sub> in the frequency range 3-1000 cm <sup>-1</sup> : I. Comparison of the structures of the crystal and initial glass. <i>Glass Physics and Chemistry</i> , <b>2006</b> , 32, 296-303	0.7	1

18	Subterahertz BWO spectroscopy: methods and devices		1
17	Optical characteristics of LaNiO <sub>3</sub> thin films in the terahertz-infrared frequency range. <i>Journal of Applied Physics</i> , <b>2022</b> , 131, 025305	2.5	1
16	A method for reconstruction of terahertz dielectric response of thin liquid samples <b>2019</b> ,		1
15	Assessment of the application of paratellurite for the acousto-optical deflection of terahertz rays based on broadband spectroscopy data. <i>Journal Physics D: Applied Physics</i> , <b>2020</b> , 53, 495102	3	1
14	Temperature Evolution of the Dielectric Response of D-Lactose Monohydrate in the THz Frequency Range. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , <b>2020</b> , 128, 752-758	0.7	1
13	Terahertz time-domain spectroscopy of astrophysical ice analogs: A pilot study. <i>EPJ Web of Conferences</i> , <b>2018</b> , 195, 06004	0.3	1
12	Biomedical applications of terahertz solid immersion microscopy. <i>EPJ Web of Conferences</i> , <b>2018</b> , 195, 10017	0.3	1
11	Temperature evolution of dielectric response spectra of stillwellite-like glasses in the terahertz and infrared ranges. <i>Physics of the Solid State</i> , <b>2014</b> , 56, 1200-1205	0.8	
10	A terahertz radiation spectrum analyzer. <i>Instruments and Experimental Techniques</i> , <b>2012</b> , 55, 149-150	0.5	
9	Terahertz Measurements for Wideband Dielectric Spectral Panoramas. <i>Ferroelectrics</i> , <b>2012</b> , 441, 48-51	0.6	
8	High-power CO <sub>2</sub> laser radiation conversion by means of AgGaSe <sub>2</sub> and AgGa(1-x)In(x)Se <sub>2</sub> crystals <b>2000</b> , 3889, 538		
7	BWO-Characterization of Materials and Devices at Frequencies 100-1000 GHz. <i>Materials Research Society Symposia Proceedings</i> , <b>2000</b> , 631, 291		
6	Experimental observation of configuration-modes of bistable centers in CdF <sub>2</sub> :In crystals <b>2010</b> , 106, 326		
5	Determination of Electrodynamic Parameters of In <sub>2</sub> O <sub>3</sub> thin Films by Terahertz and Infrared Spectroscopy. <i>Journal of Surface Investigation</i> , <b>2020</b> , 14, 544-546	0.5	
4	The Influence of Defects on the Absorption of Terahertz Radiation in a CdSiP <sub>2</sub> Single Crystal. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , <b>2020</b> , 128, 1004-1009	0.7	
3	Electrodynamic Characteristics of Solid Solutions Pb(Fe <sub>1-x</sub> Sc <sub>x</sub> ) <sub>2/3</sub> W <sub>1/3</sub> O <sub>3</sub> in a Broad Spectral Range. <i>Physics of the Solid State</i> , <b>2018</b> , 60, 2440-2449	0.8	
2	Intraoperative diagnosis of malignant brain gliomas using terahertz pulsed spectroscopy and optical coherence tomography. <i>EPJ Web of Conferences</i> , <b>2018</b> , 195, 10018	0.3	
1	Long-wavelength optical properties of the Ca <sub>0.33</sub> Sr <sub>0.33</sub> Ba <sub>0.33</sub> F <sub>2</sub> solid solution single crystals. <i>Optical Materials</i> , <b>2022</b> , 127, 112267	3.3	

