

Olga Cherkasova

List of Publications by Year in descending order

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73
papers

1,379
citations

331538

21
h-index

345118

36
g-index

75
all docs

75
docs citations

75
times ranked

936
citing authors

#	ARTICLE	IF	CITATIONS
1	Study of adsorption of the SARS-CoV-2 virus spike protein by vibrational spectroscopy using terahertz metamaterials. <i>Quantum Electronics</i> , 2022, 52, 2-12.	0.3	2
2	Terahertz radiation and the skin: a review. <i>Journal of Biomedical Optics</i> , 2021, 26, .	1.4	81
3	Cellular effects of terahertz waves. <i>Journal of Biomedical Optics</i> , 2021, 26, .	1.4	44
4	Diagnosis of Glioma Molecular Markers by Terahertz Technologies. <i>Photonics</i> , 2021, 8, 22.	0.9	21
5	Malignant and benign thyroid nodule differentiation through the analysis of blood plasma with terahertz spectroscopy. <i>Biomedical Optics Express</i> , 2021, 12, 1020.	1.5	23
6	Effect of terahertz radiation on intermolecular interactions of albumin under aerobic and anaerobic conditions. <i>Journal of Physics: Conference Series</i> , 2021, 2067, 012015.	0.3	1
7	Raman spectroscopy of blood plasma for cancer diagnosis. , 2021, , .		1
8	A Rat Model of Post-Traumatic Stress Syndrome Causes Phenotype-Associated Morphological Changes and Hypofunction of the Adrenal Gland. <i>International Journal of Molecular Sciences</i> , 2021, 22, 13235.	1.8	11
9	The progress and perspectives of terahertz technology for diagnosis of neoplasms: a review. <i>Journal of Optics (United Kingdom)</i> , 2020, 22, 013001.	1.0	135
10	Effects of Terahertz Radiation on Living Cells: a Review. <i>Optics and Spectroscopy (English Translation)</i> Tj ETQq0 0 0 rgBT /Overlock 10 Tt	0.2	55
11	A Study on Molecular Mechanisms of Terahertz Radiation Interaction with Biopolymers Based on the Example of Bovine Serum Albumin. <i>Biophysics (Russian Federation)</i> , 2020, 65, 410-415.	0.2	2
12	Optical Properties of Hyperosmotic Agents for Immersion Clearing of Tissues in Terahertz Spectroscopy. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2020, 128, 1026-1035.	0.2	8
13	Study of Blood Serum in Rats with Transplanted Cholangiocarcinoma Using Raman Spectroscopy. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2020, 128, 964-971.	0.2	9
14	Hexobarbital Sleep Test for Predicting the Susceptibility or Resistance to Experimental Posttraumatic Stress Disorder. <i>International Journal of Molecular Sciences</i> , 2020, 21, 5900.	1.8	5
15	Optimal hyperosmotic agents for tissue immersion optical clearing in terahertz biophotonics. <i>Journal of Biophotonics</i> , 2020, 13, e202000297.	1.1	24
16	Offensive Behavior, Striatal Glutamate Metabolites, and Limbicâ€“Hypothalamicâ€“Pituitaryâ€“Adrenal Responses to Stress in Chronic Anxiety. <i>International Journal of Molecular Sciences</i> , 2020, 21, 7440.	1.8	10
17	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.	1.2	30
18	Study on the effects of terahertz radiation on gene networks of Escherichia coli by means of fluorescent biosensors. <i>Biomedical Optics Express</i> , 2020, 11, 5258.	1.5	12

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19	The difference in terahertz dielectric properties of DNA solutions in water and ethanol. , 2020, , .		0
20	A Complex Study of the Peculiarities of Blood Serum Absorption of Rats with Experimental Liver Cancer. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2019, 126, 721-729.	0.2	13
21	New approach to terahertz diagnostics of human psychoemotional state. Quantum Electronics, 2019, 49, 70-77.	0.3	7
22	From Allostatic Load to Allostatic State—An Endogenous Sympathetic Strategy to Deal With Chronic Anxiety and Stress?. Frontiers in Behavioral Neuroscience, 2019, 13, 47.	1.0	25
23	Evaluation of the psychoemotional human state via terahertz image of the face. , 2019, , .		1
24	How to Make Water Transparent for THz Radiation?. , 2019, , .		0
25	Terahertz spectroscopy of gelatin-embedded human brain gliomas of different grades: a road toward intraoperative THz diagnosis. Journal of Biomedical Optics, 2019, 24, 1.	1.4	75
26	A comparison of terahertz optical constants and diffusion coefficients of tissue immersion optical clearing agents. , 2019, , .		3
27	Terahertz biophotonics as a tool for studies of dielectric and spectral properties of biological tissues and liquids. Progress in Quantum Electronics, 2018, 62, 1-77.	3.5	204
28	Investigation of glycation products by THz time-domain spectroscopy. , 2018, , .		0
29	The low protein concentration study in an extended THz frequency range. , 2018, , .		0
30	Terahertz sensing of protein solutions. , 2018, , .		0
31	A Comprehensive Study of Albumin Solutions in the Extended Terahertz Frequency Range. Journal of Infrared, Millimeter, and Terahertz Waves, 2018, 39, 840-853.	1.2	21
32	Terahertz time-domain spectroscopy for non-invasive assessment of water content in biological samples. Biomedical Optics Express, 2018, 9, 2266.	1.5	74
33	Prerequisites of human stress states diagnostics with the use of THz radiation. , 2018, , .		0
34	Terahertz spectroscopy of immersion optical clearing agents: DMSO, PG, EG, PEG. , 2018, , .		4
35	Multi-spectral endogenous fluorescence imaging for bacterial differentiation. , 2017, , .		0
36	Study of blood plasma optical properties in mice grafted with Ehrlich carcinoma in the frequency range 0.1–1.0 THz. Quantum Electronics, 2017, 47, 1031-1040.	0.3	17

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37	The influence of terahertz radiation on the cell's genetic apparatus. Journal of Optical Technology (A) Tj ETQq1 1 0.784314 rgBT / Overl	0.2	21
38	Nanoantenna-assisted plasmonic enhancement of IR absorption of vibrational modes of organic molecules. Beilstein Journal of Nanotechnology, 2017, 8, 975-981.	1.5	11
39	Dielectric properties of albumin and glucose solutions in the THz frequency range. , 2016, , .		3
40	Study of the dielectric function of aqueous solutions of glucose and albumin by THz time-domain spectroscopy. Quantum Electronics, 2016, 46, 488-495.	0.3	41
41	Studying human and animal skin optical properties by terahertz time-domain spectroscopy. Bulletin of the Russian Academy of Sciences: Physics, 2016, 80, 479-483.	0.1	10
42	Investigation of bovine serum albumin glycation by THz spectroscopy. Proceedings of SPIE, 2016, , .	0.8	5
43	Application of terahertz time-domain spectroscopy for blood glucose monitoring. , 2016, , .		2
44	Principle component analysis and linear discriminant analysis of multi-spectral autofluorescence imaging data for differentiating basal cell carcinoma and healthy skin. , 2016, , .		2
45	Effects of Intraperitoneal Administration of Mifepristone on Glucocorticoid Status of Experimental Animals. Bulletin of Experimental Biology and Medicine, 2016, 161, 257-260.	0.3	8
46	Application of surface-enhanced infrared spectroscopy for steroids analysis. , 2016, , .		0
47	Analysis of blood plasma at terahertz frequencies. Optics and Spectroscopy (English Translation of) Tj ETQq1 1 0.784314 rgBT / Overl	0.2	32
48	Noninvasive blood glucose monitoring in the terahertz frequency range. Optical and Quantum Electronics, 2016, 48, 1.	1.5	81
49	Temperature effects in low-frequency Raman spectra of corticosteroid hormones. Optics and Spectroscopy (English Translation of Optika i Spektroskopiya), 2015, 118, 214-223.	0.2	10
50	The investigation of blood and skin THz response at high glucose concentration. , 2015, , .		3
51	Native fluorescence spectroscopy of blood plasma of rats with experimental diabetes: identifying fingerprints of glucose-related metabolic pathways. Journal of Biomedical Optics, 2015, 20, 051033.	1.4	22
52	Features of terahertz adsorption and Raman scattering of mineralocorticoid hormones. Bulletin of the Russian Academy of Sciences: Physics, 2015, 79, 1196-1201.	0.1	4
53	Activity of 11 β -Hydroxysteroid Dehydrogenase in the Adrenal Glands, Liver, and Kidneys of Rats with Experimental Diabetes. Bulletin of Experimental Biology and Medicine, 2014, 158, 185-187.	0.3	0
54	Application of time-domain THz spectroscopy for studying blood plasma of rats with experimental diabetes. Physics of Wave Phenomena, 2014, 22, 185-188.	0.3	23

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55	Characteristic responses of biological and nanoscale systems in the terahertz frequency range. Quantum Electronics, 2014, 44, 614-632.	0.3	40
56	Study of terahertz-radiation-induced DNA damage in human blood leukocytes. Quantum Electronics, 2014, 44, 247-251.	0.3	28
57	Adrenocortical and renin-angiotensin systems in dynamics of experimental diabetes. Biochemistry (Moscow) Supplement Series B: Biomedical Chemistry, 2013, 7, 90-94.	0.2	2
58	Application of THz probe radiation in low-coherent tomographs based on spatially separated counterpropagating beams. Quantum Electronics, 2013, 43, 958-967.	0.3	1
59	Analysis of intermolecular interactions in progesterone and 17 α -hydroxyprogesterone crystals. , 2013, , .		0
60	The effect of the nature of hydrogen bonding on THz and Raman spectra of cyclopentaphenanthrene derivatives. , 2011, , .		0
61	Investigation of spectral features of progesterone, 17 α -hydroxyprogesterone and cortisone in THz range. , 2010, , .		0
62	Effects of Dehydroepiandrosterone Sulfate on the Conversion of Corticosterone into 11-Dehydrocorticosterone in Stress: A Regulatory Scheme. Neuroscience and Behavioral Physiology, 2009, 39, 695-699.	0.2	5
63	Terahertz spectroscopy of biological molecules. Radiophysics and Quantum Electronics, 2009, 52, 518-523.	0.1	18
64	Influence of terahertz laser radiation on the spectral characteristics and functional properties of albumin. Optics and Spectroscopy (English Translation of Optika i Spektroskopiya), 2009, 107, 534-537.	0.2	35
65	Functional State of Adrenocortical System in Rats with Manifest Alloxan-Induced Diabetes Mellitus. Bulletin of Experimental Biology and Medicine, 2008, 146, 708-710.	0.3	10
66	Terahertz radiation influence on peptide conformation. , 2007, , .		4
67	Activity of 11 β -hydroxysteroid dehydrogenase of rat kidney and liver in inherited stress-induced arterial hypertension. Biochemistry (Moscow) Supplement Series B: Biomedical Chemistry, 2007, 1, 172-175.	0.2	4
68	Activity of 11 β -hydroxysteroid dehydrogenase in tissues of hypertensive NISAG rats. Bulletin of Experimental Biology and Medicine, 2006, 141, 30-32.	0.3	5
69	Prolonged decrease in stress reactivity caused by dehydroepiandrosterone sulfate. Bulletin of Experimental Biology and Medicine, 2006, 141, 571-573.	0.3	7
70	Activity of Angiotensin-Converting Enzyme in Hereditary Stress-Induced Arterial Hypertension. Bulletin of Experimental Biology and Medicine, 2005, 140, 388-390.	0.3	1
71	Ratio between the Contents of 11-Dehydrocorticosterone and Corticosterone after Acute and Repeated Stress: Effect of Dehydroepiandrosterone Sulfate. Bulletin of Experimental Biology and Medicine, 2004, 138, 137-139.	0.3	4
72	Stress-limiting effect of dehydroepiandrosterone sulfate and its mechanism. Bulletin of Experimental Biology and Medicine, 2003, 135, 231-233.	0.3	8

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73	Laser-induced fluorescence of estrogens. Optics and Spectroscopy (English Translation of Optika i Spektroskopiya) Tj ETQq1 1 0.784314 rgBTJ/Overlock	0.2	10