

# Valery Tuchin

## List of Publications by Year in descending order

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1,146  
papers

18,795  
citations

22153

59  
h-index

25787

108  
g-index

1204  
all docs

1204  
docs citations

1204  
times ranked

12968  
citing authors

#	ARTICLE	IF	CITATIONS
1	Impact of optical clearing on <i>ex vivo</i> human skin optical properties characterized by spatially resolved multimodal spectroscopy. <i>Journal of Biophotonics</i> , 2022, 15, e202100202.	2.3	4
2	Meso-substituted cationic 3- and 4-N-Pyridylporphyrins and their Zn(II) derivatives for antibacterial photodynamic therapy. <i>Journal of Innovative Optical Health Sciences</i> , 2022, 15, .	1.0	8
3	Laser speckle contrast imaging for monitoring of acute pancreatitis at ischemia–reperfusion injury of the pancreas in rats. <i>Journal of Innovative Optical Health Sciences</i> , 2022, 15, .	1.0	4
4	Optical clearing of tissues: Issues of antimicrobial phototherapy and drug delivery. <i>Advanced Drug Delivery Reviews</i> , 2022, 180, 114037.	13.7	19
5	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.	1.0	2
6	Works on laser biophotonics. <i>Quantum Electronics</i> , 2022, 52, 1-1.	1.0	2
7	Introduction to the Special Issue on Advances in Biophotonics and Biomedical Optics: Part II. <i>Journal of Innovative Optical Health Sciences</i> , 2022, 15, .	1.0	0
8	In Vivo Quantification of the Effectiveness of Topical Low-Dose Photodynamic Therapy in Wound Healing Using Two-Photon Microscopy. <i>Pharmaceutics</i> , 2022, 14, 287.	4.5	5
9	MR and fluorescence imaging of gadobutrol-induced optical clearing of red fluorescent protein signal in an in vivo cancer model. <i>NMR in Biomedicine</i> , 2022, 35, e4708.	2.8	5
10	Photothermal and Photodynamic Therapy of Tumors with Plasmonic Nanoparticles: Challenges and Prospects. <i>Materials</i> , 2022, 15, 1606.	2.9	29
11	Fast Estimation of the Spectral Optical Properties of Rabbit Pancreas and Pigment Content Analysis. <i>Photonics</i> , 2022, 9, 122.	2.0	6
12	Continuously tunable middle-IR bandpass filters based on gradient metal-hole arrays for multispectral sensing and thermography. <i>Journal of Applied Physics</i> , 2022, 131, .	2.5	2
13	Terahertz solid immersion microscopy: Recent achievements and challenges. <i>Applied Physics Letters</i> , 2022, 120, .	3.3	17
14	Immersion optical clearing of adipose tissue in rats: ex vivo and in vivo studies. <i>Journal of Biophotonics</i> , 2022, 15, e202100393.	2.3	4
15	Changes in Optical Properties of Model Cholangiocarcinoma after Plasmon-Resonant Photothermal Treatment. <i>Photonics</i> , 2022, 9, 199.	2.0	2
16	Ex vivo confocal Raman microspectroscopy of porcine <i>dura mater</i> supported by optical clearing. <i>Journal of Biophotonics</i> , 2022, 15, e202100332.	2.3	4
17	Integrated binary hologram to monitor cargo release from a drug-eluting film. <i>Light Advanced Manufacturing</i> , 2022, 3, 1.	5.1	2
18	Methods of Studying Ultraweak Photon Emission from Biological Objects: III. Physical Methods. <i>Biophysics (Russian Federation)</i> , 2022, 67, 27-58.	0.7	2

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19	Photoemission of Plasmonic Gold Nanostars in Laser-Controlled Electron Current Devices for Technical and Biomedical Applications. <i>Sensors</i> , 2022, 22, 4127.	3.8	1
20	Shedding light on biology and healthcare” preface to the special issue on Biomedical Optics. <i>Light: Science and Applications</i> , 2022, 11, .	16.6	3
21	A review on terahertz non-destructive applications for wound and diabetic foot screening. <i>Optical and Quantum Electronics</i> , 2022, 54, .	3.3	6
22	Multiplexed spatially-focused localization of light in adipose biological tissues. <i>Scientific Reports</i> , 2022, 12, .	3.3	5
23	Method for tissue clearing: temporal tissue optical clearing. <i>Biomedical Optics Express</i> , 2022, 13, 4222.	2.9	6
24	Transdermal platform for the delivery of the antifungal drug naftifine hydrochloride based on porous vaterite particles. <i>Materials Science and Engineering C</i> , 2021, 119, 111428.	7.3	26
25	Target delivery of drug carriers in mice kidney glomeruli via renal artery. Balance between efficiency and safety. <i>Journal of Controlled Release</i> , 2021, 329, 175-190.	9.9	20
26	Concept of photonic hook scalpel generated by shaped fiber tip with asymmetric radiation. <i>Journal of Biophotonics</i> , 2021, 14, e202000342.	2.3	12
27	Enhanced Ultraviolet Spectroscopy by Optical Clearing for Biomedical Applications. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2021, 27, 1-8.	2.9	20
28	Interaction of laser radiation and complexes of gold nanoparticles linked with proteins. <i>Quantum Electronics</i> , 2021, 51, 52-63.	1.0	0
29	Laser biophotonics. <i>Quantum Electronics</i> , 2021, 51, 1-1.	1.0	0
30	Kinetic parameters of the change of optical properties of the gingiva under immersion in glycerol: ex vivo research. <i>Molekulyarnaya Meditsina (Molecular Medicine)</i> , 2021, 19, 44-50.	0.2	0
31	Development of a personalized approach for determining pathological areas in the oral mucosa based on the determination of the gingiva permeability to methylene blue. <i>Molekulyarnaya Meditsina (Molecular Medicine)</i> , 2021, 19, 47-52.	0.2	0
32	Modeling of Laser-Induced Plasmon Effects in GNS-DLC-Based Material for Application in X-ray Source Array Sensors. <i>Sensors</i> , 2021, 21, 1248.	3.8	1
33	Ex vivo 3-dimensional elemental imaging of mouse brain tissue block by laser-induced breakdown spectroscopy. <i>Journal of Biophotonics</i> , 2021, 14, e202000479.	2.3	12
34	Prospects for multimodal visualisation of biological tissues using fluorescence imaging. <i>Quantum Electronics</i> , 2021, 51, 104-117.	1.0	4
35	Optical clearing and multimodality fluorescence and magnetic resonance imaging in cancer models. , 2021, , .		0
36	Memories of a teacher, colleague and friend Vadim S. Anishchenko (1943–2020). <i>Izvestiya of Saratov University, New Series: Physics</i> , 2021, 21, 88-101.	0.1	1

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37	Sonophoretic acceleration of degradation process for vaterite particles delivered into the hair follicles. <i>Izvestiya of Saratov University, New Series: Physics</i> , 2021, 21, 80-85.	0.1	3
38	Optical properties of porcine oral mucosa at application of iodine preparation based on glycerol. , 2021, , .		0
39	Topical Gadobutrol Application Causes Fluorescence Intensity Change in RFP-expressing Tumor-Bearing Mice. <i>Journal of Biomedical Photonics and Engineering</i> , 2021, 7, 020301.	0.7	4
40	Special Section Guest Editorial: Advances in Terahertz and Infrared Optoelectronics. <i>Optical Engineering</i> , 2021, 60, .	1.0	0
41	Experimental study of the dependence of the distortion of the luminescence spectra of upconversion nanoparticles on the depth of their location in biological tissue. , 2021, , .		0
42	Application of high molecular PEG for optical clearing of skin. , 2021, , .		0
43	Special Section Guest Editorial: Advances in Terahertz Biomedical Science and Applications. <i>Journal of Biomedical Optics</i> , 2021, 26, .	2.6	8
44	<i>Ex-vivo</i> confocal Raman microspectroscopy of porcine skin with 633/785-NM laser excitation and optical clearing with glycerol/water/DMSO solution. <i>Journal of Innovative Optical Health Sciences</i> , 2021, 14, .	1.0	8
45	Diffuse reflectance and machine learning techniques to differentiate colorectal cancer <i>ex vivo</i> . <i>Chaos</i> , 2021, 31, 053118.	2.5	11
46	Estimation of Rabbit Pancreas Dispersion Between 400 and 1000 nm. <i>Journal of Biomedical Photonics and Engineering</i> , 2021, 7, 020303.	0.7	3
47	Optical properties of model cholangiocarcinoma tissues in the spectral range of 350-2250 nm in laser photothermolysis treatment. , 2021, , .		1
48	Physically Reasonable Tissue Properties for Optical Coherence Tomography of Brain Malignancies. , 2021, , .		0
49	Optical coherence microangiography of the mouse kidney for diagnosis of circulatory disorders. <i>Biomedical Optics Express</i> , 2021, 12, 4467.	2.9	6
50	Terahertz dielectric spectroscopy and solid immersion microscopy of ex vivo glioma model 101.8: brain tissue heterogeneity. <i>Biomedical Optics Express</i> , 2021, 12, 5272.	2.9	23
51	Biophotonic Strategies of Measurement and Stimulation of the Cranial and the Extracranial Lymphatic Drainage Function. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2021, 27, 1-13.	2.9	13
52	Refractive Index Matching Efficiency in Colorectal Mucosa Treated With Glycerol. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2021, 27, 1-8.	2.9	5
53	Corrections to "Detection of Melanoma Cells in Whole Blood Samples Using Spectral Imaging and Optical Clearing" [Jul/Aug 21 Art. no. 7200711]. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2021, 27, 1-1.	2.9	0
54	Optical clearing of laser-induced tissue plasma. <i>Laser Physics Letters</i> , 2021, 18, 085603.	1.4	4

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55	Detection of Melanoma Cells in Whole Blood Samples Using Spectral Imaging and Optical Clearing. IEEE Journal of Selected Topics in Quantum Electronics, 2021, 27, 1-11.	2.9	10
56	Impact of osmotic pressure on cancer cells in a three-dimensional cellular lattice and cell spheroid. Izvestiya Vysshikh Uchebnykh Zavedeniy Prikladnaya Nelineynaya Dinamika, 2021, 29, 559-570.	0.2	1
57	3D models of the dynamics of cancer cells under external pressure. Chaos, 2021, 31, 083122.	2.5	5
58	Spectral Optical Properties of Rabbit Brain Cortex between 200 and 1000 nm. Photochem, 2021, 1, 190-208.	2.2	10
59	Cellular effects of terahertz waves. Journal of Biomedical Optics, 2021, 26, .	2.6	44
60	Glycerol effects on optical, weight and geometrical properties of skin tissue. Journal of Innovative Optical Health Sciences, 2021, 14, .	1.0	9
61	Porous Phantoms Mimicking Tissues—Investigation of Optical Parameters Stability Over Time. Materials, 2021, 14, 423.	2.9	7
62	Terahertz dielectric spectroscopy of human brain gliomas and intact tissues ex vivo: double-Debye and double-overdamped-oscillator models of dielectric response. Biomedical Optics Express, 2021, 12, 69.	2.9	40
63	Lightsheet-based flow cytometer for whole blood with the ability for the magnetic retrieval of objects from the blood flow. Biomedical Optics Express, 2021, 12, 380.	2.9	9
64	Introduction to the Special Issue on Advances in Biophotonics and Biomedical Optics. Journal of Innovative Optical Health Sciences, 2021, 14, .	1.0	0
65	Quantitative super-resolution solid immersion microscopy via refractive index profile reconstruction. Optica, 2021, 8, 1471.	9.3	23
66	Call for contributions to the Special Issue on the 9th Congress of the Russian Photobiological Society held in Shepsi, Krasnodar region, Russia, on September 12–19, 2021. Biophysical Reviews, 2021, 13, 815-816.	3.2	2
67	Multimodal Tissue Imaging Supported by Optical Clearing. , 2021, , .		0
68	Molecular modeling of post-diffusion stage of biotissue optical clearing under effect of iohexol aqueous solution. Journal of Physics: Conference Series, 2021, 2103, 012048.	0.4	1
69	Study of the Photocatalytic Antimicrobial Activity of Nanocomposites Based on TiO <sub>2</sub> –Al <sub>2</sub> O <sub>3</sub> under Action of LED Radiation (405 nm) on Staphylococci. Optics and Spectroscopy (English Translation of) Tj ETQq1 1 0o784314 rgBT /Over		
70	Optical Clearing of Biological Tissues with a Number of Disaccharides. Optics and Spectroscopy (English Translation of Optika i Spektroskopiya), 2021, 129, 763-769.	0.6	2
71	Optical coherence tomography of healthy and malignant tissues: physically reasonable differentiation. , 2021, , .		0
72	Proof of concept for the sapphire scalpel combining tissue dissection and optical diagnosis. Lasers in Surgery and Medicine, 2021, , .	2.1	1

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73	The progress and perspectives of terahertz technology for diagnosis of neoplasms: a review. Journal of Optics (United Kingdom), 2020, 22, 013001.	2.2	135
74	Enhanced topical psoralen-ultraviolet A therapy via targeting to hair follicles. British Journal of Dermatology, 2020, 182, 1479-1481.	1.5	17
75	Effect of Systemic Polyelectrolyte Microcapsule Administration on the Blood Flow Dynamics of Vital Organs. ACS Biomaterials Science and Engineering, 2020, 6, 389-397.	5.2	23
76	Control of the optical properties of gum and dentin tissue of a human tooth at laser spectral lines in the range of 200-800 nm. Quantum Electronics, 2020, 50, 47-54.	1.0	2
77	Multispectral sensing of biological liquids with hollow-core microstructured optical fibres. Light: Science and Applications, 2020, 9, 173.	16.6	32
78	Efficiency of Plasmonic Photothermal Therapy of Experimental Tumors. Optics and Spectroscopy (English Translation of Optika i Spektroskopiya), 2020, 128, 849-854.	0.6	1
79	Magnetic resonance contrast agents in optical clearing: Prospects for multimodal tissue imaging. Journal of Biophotonics, 2020, 13, e201960249.	2.3	21
80	Effects of Terahertz Radiation on Living Cells: a Review. Optics and Spectroscopy (English Translation) Tj ETQq0 0 0.8 BT / Overlock 10 Tj	0.8	55
81	The Effectiveness of Glycerol Solutions for Optical Clearing of the Intact Skin as Measured by Confocal Raman Microspectroscopy. Optics and Spectroscopy (English Translation of Optika i) Tj ETQq1 1 0.7843 1.4 BT / Overlock 10 Tj	0.8	55
82	Photothermal Effect of Infrared (808 nm) Laser Radiation and Gold Nanoparticles in Different Modifications on S. aureus. Optics and Spectroscopy (English Translation of Optika i Spektroskopiya), 2020, 128, 843-848.	0.6	0
83	Microfocusing sapphire capillary needle for laser surgery and therapy: Fabrication and characterization. Journal of Biophotonics, 2020, 13, e202000164.	2.3	7
84	Photostimulation of cerebral and peripheral lymphatic functions. Translational Biophotonics, 2020, 2, e201900036.	2.7	28
85	Lipofuscin-Type Pigment as a Marker of Colorectal Cancer. Electronics (Switzerland), 2020, 9, 1805.	3.1	8
86	Prospective Nanotechnology-Based Strategies for Enhanced Intra- and Transdermal Delivery of Antifungal Drugs. Skin Pharmacology and Physiology, 2020, 33, 261-269.	2.5	17
87	Diagnosis of Diabetes Based on Analysis of Exhaled Air by Terahertz Spectroscopy and Machine Learning. Optics and Spectroscopy (English Translation of Optika i Spektroskopiya), 2020, 128, 809-814.	0.6	9
88	Determination of the Diffusion Coefficient of 40%-Glucose in Human Gum Tissue by Optical Method. Optics and Spectroscopy (English Translation of Optika i Spektroskopiya), 2020, 128, 766-770.	0.6	1
89	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.	0.6	8
90	Study of Blood Serum in Rats with Transplanted Cholangiocarcinoma Using Raman Spectroscopy. Optics and Spectroscopy (English Translation of Optika i Spektroskopiya), 2020, 128, 964-971.	0.6	9

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91	Optimal hyperosmotic agents for tissue immersion optical clearing in terahertz biophotonics. Journal of Biophotonics, 2020, 13, e202000297.	2.3	24
92	In vivo detection of human cutaneous beta-carotene using computational optical clearing. Journal of Biophotonics, 2020, 13, e202000124.	2.3	2
93	Overcoming the Abbe Diffraction Limit Using a Bundle of Metal-Coated High-Refractive-Index Sapphire Optical Fibers. Advanced Optical Materials, 2020, 8, 2000307.	7.3	18
94	Optical clearing for photoacoustic lympho- and angiography beyond conventional depth limit in vivo. Photoacoustics, 2020, 20, 100186.	7.8	19
95	Functionalized Microstructured Optical Fibers: Materials, Methods, Applications. Materials, 2020, 13, 921.	2.9	15
96	Determination of the kinetic parameters of glycerol diffusion in the gingival and dentinal tissue of a human tooth using optical method: in vitro studies. Optical and Quantum Electronics, 2020, 52, 1.	3.3	4
97	Optimized skin optical clearing for optical coherence tomography monitoring of encapsulated drug delivery through the hair follicles. Journal of Biophotonics, 2020, 13, e201960020.	2.3	16
98	Topical problems of biophotonics. Quantum Electronics, 2020, 50, 1-1.	1.0	1
99	Laser-triggered drug release from polymeric 3-D micro-structured films via optical fibers. Materials Science and Engineering C, 2020, 110, 110664.	7.3	19
100	Optimization of power used in liver cancer microwave therapy by injection of Magnetic Nanoparticles (MNPs). Computers in Biology and Medicine, 2020, 120, 103741.	7.0	10
101	Rapid Ultrasound Optical Clearing of Human Light and Dark Skin. IEEE Transactions on Medical Imaging, 2020, 39, 3198-3206.	8.9	13
102	Integrated effects of fractional laser microablation and sonophoresis on skin immersion optical clearing in vivo. Journal of Biophotonics, 2020, 13, e202000101.	2.3	2
103	Kinetics of optical clearing of human skin studied in vivo using portable Raman spectroscopy. Laser Physics Letters, 2020, 17, 105601.	1.4	13
104	Roadmap on holography. Journal of Optics (United Kingdom), 2020, 22, 123002.	2.2	54
105	Phenomenon of music-induced opening of the blood-brain barrier in healthy mice. Proceedings of the Royal Society B: Biological Sciences, 2020, 287, 20202337.	2.6	17
106	Infrared neurostimulation of earthworm: from modeling to experiment. Optical Engineering, 2020, 59, 1.	1.0	1
107	Numerical modeling of plasmonic properties of gold nanostars to prove the threshold nature of their modification under laser pulse. Optical Engineering, 2020, 59, 1.	1.0	4
108	Measurement of optical properties of normal and pathological human liver tissue from deep-UV to NIR., 2020, , .		4

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109	Measurement and modeling of optical properties of heated adipose tissue in the terahertz range. , 2020, , .		1
110	Low-cost measurement of the dermal beta-carotene in the context of optical clearing. , 2020, , .		1
111	Analysis of image features for the characterization of skin optical clearing kinetics performed on in vivo and ex vivo human skin using Linefield-Confocal Optical Coherence Tomography (LC-OCT). , 2020, , .		1
112	Improved biomedical imaging over a wide spectral range from UV to THz towards multimodality. , 2020, , .		4
113	Photodynamic therapy of brain tumors and novel optical coherence tomography strategies for <i>in vivo</i> monitoring of cerebral fluid dynamics. Journal of Innovative Optical Health Sciences, 2020, 13, .	1.0	18
114	Photobiomodulation of lymphatic drainage and clearance: perspective strategy for augmentation of meningeal lymphatic functions. Biomedical Optics Express, 2020, 11, 725.	2.9	44
115	Capability of physically reasonable OCT-based differentiation between intact brain tissues, human brain gliomas of different WHO grades, and glioma model 101.8 from rats. Biomedical Optics Express, 2020, 11, 6780.	2.9	11
116	Prospects of terahertz technology in diagnosis of human brain tumors – A review. Journal of Biomedical Photonics and Engineering, 2020, 6, .	0.7	27
117	UV-NIR efficiency of the refractive index matching mechanism on colorectal muscle during treatment with different glycerol osmolarities. Journal of Biomedical Photonics and Engineering, 2020, 6, .	0.7	7
118	Trapping of Magnetic Nanoparticles in the Blood Stream under the Influence of a Magnetic Field. Izvestiya of Saratov University, New Series: Physics, 2020, 20, 72-79.	0.1	1
119	Optical properties of human dentin when it is immersed in glucose in vitro and the kinetics of this process. Journal of Optical Technology (A Translation of Opticheskii Zhurnal), 2020, 87, 168.	0.4	1
120	Sapphire-based medical instruments for diagnosis, surgery and therapy. , 2020, , .		1
121	Differential diagnostics of paraffin-embedded tissues by IR-THz spectroscopy and machine learning. , 2020, , .		0
122	Pilot study of glycerol diffusion in ex vivo skin: a comparison of alloxan and streptozotocin diabetes models. , 2020, , .		0
123	Digital processing of laser speckle images of flows. , 2020, , .		0
124	Determination of the diffusion coefficient of rivanol in dentin of a human tooth in vitro. , 2020, , .		1
125	Cellular Uptake Study of Antimycotic-Loaded Carriers Using Imaging Flow Cytometry and Confocal Laser Scanning Microscopy. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2020, 128, 799-808.	0.6	6
126	Special Section Guest Editorial: Terahertz and Infrared Optics: Towards Biophotonics. Optical Engineering, 2020, 59, 1.	1.0	0



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127	Optical Clearing of Human Skin Using Polyethylene Glycols. Journal of Biomedical Photonics and Engineering, 2020, 6, .	0.7	2
128	Magnetic Particle Trapping in a Branched Blood Vessel in the Presence of Magnetic Field. Journal of Biomedical Photonics and Engineering, 2020, 6, 040302.	0.7	3
129	Recent Advances in the Laser Radiation Transport through the Head Tissues of Humans and Animals – A Review. Journal of Biomedical Photonics and Engineering, 2020, 6, 040201.	0.7	7
130	New Gypsum-Titanium Composites for Antimicrobial Photocatalytic Action on Staphylococcus aureus. Izvestiya of Saratov University New Series Series: Chemistry Biology Ecology, 2020, 20, 324-331.	0.1	0
131	Terahertz Spectroscopy and Imaging of Brain Tumors. , 2020, , 551-574.		1
132	ÐˆÐˆ¼¼ÐµÑ€Ðµ¼¼Ðµ Ð³¼¼Ñ,Ð,Ñ¼¼ÑÐ°Ñ... Ñ²Ð³¼¼ÑÑ,Ð² ÐˆµÑ¼¼Ñ¼, Ð, Ðˆµ¼¼Ñ,Ð¼¼¼Ð° Ñ¼¼Ð»Ð¼¼¼Ð° Ð² Ñ¼¼		
133	Optical Clearing of Biological Tissues: Prospects of Application for Multimodal Malignancy Diagnostics. , 2020, , 107-131.		5
134	The Study of Lymphatic Drainage Function of the Brain After Opening the Blood-Brain Barrier and During Drugged Sleep. Izvestiya of Saratov University New Series Series: Chemistry Biology Ecology, 2020, 20, 339-351.	0.1	1
135	Malignant Tissue Optical Properties. , 2020, , 3-106.		2
136	Optical properties of human gums after photodynamic therapy with methylene blue (in vitro). , 2020, , .		0
137	Towards registration of optical and MR signal changes in subcutaneous tumor volume in vivo after optical skin clearing. , 2020, , .		2
138	Confocal Raman microspectroscopy for evaluation of optical clearing efficiency of the skin ex vivo. , 2020, , .		0
139	Optical spectroscopy as an effective tool for skin cancer features analysis: applicability investigation. , 2020, , .		0
140	Mobile system for early diagnosis of the parameters of pigmented skin lesions. , 2020, , .		1
141	Nanosecond laser-induced photomodification of gold nanostars of various sizes. , 2020, , .		0
142	Front Matter: Volume 11457. , 2020, , .		0
143	The study of spectral changes in THz range in normal and pathological skin in vivo depending on the dehydration methods used. , 2020, , .		0
144	Numerical simulation of magnetic nanoparticles in the blood stream. , 2020, , .		2

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145	Speckle-contrast imaging of pathological tissue microhemodynamics in the development of various diabetes models. , 2020, , .		0
146	Binding of ceruloplasmin with cationic porphyrins: pH and salt composition of a medium. , 2020, , .		0
147	Study of wound healing by terahertz spectroscopy. , 2020, , .		0
148	THz spectroscopy of skin pathologies associated with water migration and content. , 2020, , .		0
149	Optical coherence tomography of brains: ex vivo study of healthy and malignant tissues. , 2020, , .		0
150	The evaluation of tumor vascularization as a prognostic factor of plasmonic photothermal therapy efficiency. , 2020, , .		0
151	Study of the impact of optical clearing on skin absorption, scattering and autofluorescence properties. , 2020, , .		0
152	Kinetics of Optical Properties of Colorectal Muscle During Optical Clearing. IEEE Journal of Selected Topics in Quantum Electronics, 2019, 25, 1-8.	2.9	16
153	Optical Digital Registration of Erythrocyte Sedimentation and Its Modeling in the Form of the Collective Process. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2019, 126, 595-606.	0.6	1
154	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.	0.6	13
155	Depth-Resolved Enhanced Spectral-Domain OCT Imaging of Live Mammalian Embryos Using Gold Nanoparticles as Contrast Agent. Small, 2019, 15, e1902346.	10.0	16
156	Photoinduced Enhancement of Evans Blue Dye Fluorescence in Water Solution of Albumin. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2019, 126, 554-559.	0.6	4
157	Effect of light scattering on biological tissue thermometry from photoluminescence spectra of up-conversion nanoparticles. Quantum Electronics, 2019, 49, 59-62.	1.0	2
158	Laser biophotonics. Quantum Electronics, 2019, 49, 1-1.	1.0	1
159	An Experimentally Trained Noise Filtration Method of Optical Coherence Tomography Signals. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2019, 126, 587-594.	0.6	2
160	Differentiation of Pigmented Skin Lesions Based on Digital Processing of Optical Images. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2019, 126, 503-513.	0.6	5
161	Moving tissue spectral window to the deep-ultraviolet via optical clearing. Journal of Biophotonics, 2019, 12, e201900181.	2.3	15
162	Skin and subcutaneous fat morphology alterations under the LED or laser treatment in rats in vivo. Journal of Biophotonics, 2019, 12, e201900117.	2.3	4

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163	Determination of the Diffusion Coefficient of Methylene Blue Solutions in Dentin of a Human Tooth using Reflectance Spectroscopy and Their Antibacterial Activity during Laser Exposure. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2019, 126, 758-768.	0.6	18
164	Optical Clearing of Human Skin Using Some Monosaccharides in vivo. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2019, 127, 352-358.	0.6	5
165	Full-Field Optical Coherence Tomography Based on a MII-4 Microprofilometer Using Microlenses with Air Immersion. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2019, 127, 368-373.	0.6	0
166	Spectral Monitoring of Naftifine Immobilization into Submicron Vaterite Particles. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2019, 126, 539-544.	0.6	7
167	Measuring optical properties of human liver between 400 and 1000 nm. Quantum Electronics, 2019, 49, 13-19.	1.0	13
168	Multimodal Optical Diagnostics of Glycated Biological Tissues. Biochemistry (Moscow), 2019, 84, 124-143.	1.5	16
169	Methods for Optical Skin Clearing in Molecular Optical Imaging in Dermatology. Biochemistry (Moscow), 2019, 84, 144-158.	1.5	14
170	Microstructured Optical Waveguide-Based Endoscopic Probe Coated with Silica Submicron Particles. Materials, 2019, 12, 1424.	2.9	10
171	A Simple Non-Invasive Approach toward Efficient Transdermal Drug Delivery Based on Biodegradable Particulate System. ACS Applied Materials & Interfaces, 2019, 11, 17270-17282.	8.0	51
172	In vivo optical clearing of human skin under the effect of aqueous solutions of some monosaccharides. Journal of Physics: Conference Series, 2019, 1400, 033018.	0.4	2
173	The Optical Clearing Method. SpringerBriefs in Physics, 2019, , .	0.7	37
174	A robust <i>ex vivo</i> method to evaluate the diffusion properties of agents in biological tissues. Journal of Biophotonics, 2019, 12, e201800333.	2.3	23
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