Valery Tuchin

List of Publications by Year
in descending order

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1,146	18,795	22153	25787
papers	citations	59 h-index	108 g-index

1204	1204	1204	12968
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Optical properties of human skin, subcutaneous and mucous tissues in the wavelength range from 400 to 2000â€‰nm. Journal Physics D: Applied Physics, 2005, 38, 2543-2555.	2.8	1,340
2	A Review of Indocyanine Green Fluorescent Imaging in Surgery. International Journal of Biomedical Imaging, 2012, 2012, 1-26.	3.9	972
3	OPTICAL PROPERTIES OF SKIN, SUBCUTANEOUS, AND MUSCLE TISSUES: A REVIEW. Journal of Innovative Optical Health Sciences, 2011, 04, 9-38.	1.0	551
4	Tissue Optics: Light Scattering Methods and Instruments for Medical Diagnosis. , 2015, , .		434
5	Recent progress in tissue optical clearing. Laser and Photonics Reviews, 2013, 7, 732-757.	8.7	425
6	Light propagation in tissues with controlled optical properties. Journal of Biomedical Optics, 1997, 2, 401.	2.6	383
7	Optical amplification of photothermal therapy with gold nanoparticles and nanoclusters. Nanotechnology, 2006, 17, 5167-5179.	2.6	368
8	Polarized light interaction with tissues. Journal of Biomedical Optics, 2016, 21, 071114.	2.6	254
9	In vivo photoacoustic flow cytometry for monitoring of circulating single cancer cells and contrast agents. Optics Letters, 2006, 31, 3623.	3.3	211
10	Optical clearing of tissues and blood using the immersion method. Journal Physics D: Applied Physics, 2005, 38, 2497-2518.	2.8	209
11	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.	7.0	204
12	Tissue optical immersion clearing. Expert Review of Medical Devices, 2010, 7, 825-842.	2.8	195
13	Concurrent enhancement of imaging depth and contrast for optical coherence tomography by hyperosmotic agents. Journal of the Optical Society of America B: Optical Physics, 2001, 18, 948.	2.1	187
14	Laser-induced tissue hyperthermia mediated by gold nanoparticles: toward cancer phototherapy. Journal of Biomedical Optics, 2009, 14, 021016.	2.6	181
15	The refractive index of human hemoglobin in the visible range. Physics in Medicine and Biology, 2011, 56, 4013-4021.	3.0	155
16	Optical Clearing of Tissues and Blood. , 2005, , .		155
17	Photoacoustic flow cytometry: principle and application for real-time detection of circulating single nanoparticles, pathogens, and contrast dyes in vivo. Journal of Biomedical Optics, 2007, 12, 051503.	2.6	151
18	Dynamic optical coherence tomography in studies of optical clearing, sedimentation, and aggregation of immersed blood. Applied Optics, 2002, 41, 258.	2.1	145

#	Article	IF	Citations
19	Circulation and distribution of gold nanoparticles and induced alterations of tissue morphology at intravenous particle delivery. Journal of Biophotonics, 2009, 2, 292-302.	2.3	144
20	Glucose and Mannitol Diffusion in Human Dura Mater. Biophysical Journal, 2003, 85, 3310-3318.	0.5	142
21	Gold nanorods with a hematoporphyrin-loaded silica shell for dual-modality photodynamic and photothermal treatment of tumors in vivo. Nano Research, 2014, 7, 325-337.	10.4	136
22	The progress and perspectives of terahertz technology for diagnosis of neoplasms: a review. Journal of Optics (United Kingdom), 2020, 22, 013001.	2.2	135
23	In vivo flow cytometry: A horizon of opportunities. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2011, 79A, 737-745.	1.5	124
24	In vivo skin optical clearing by glycerol solutions: mechanism. Journal of Biophotonics, 2010, 3, 44-52.	2.3	123
25	A pilot study of ICG laser therapy ofacne vulgaris: Photodynamic and photothermolysis treatment. Lasers in Surgery and Medicine, 2003, 33, 296-310.	2.1	114
26	In vivo multispectral, multiparameter, photoacoustic lymph flow cytometry with natural cell focusing, labelâ€free detection and multicolor nanoparticle probes. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2008, 73A, 884-894.	1.5	113
27	Towards Effective Photothermal/Photodynamic Treatment Using Plasmonic Gold Nanoparticles. International Journal of Molecular Sciences, 2016, 17, 1295.	4.1	113
28	Optical Properties of the Subcutaneous Adipose Tissue in the Spectral Range 400â€“2500 nm. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2005, 99, 836.	0.6	107
29	In vivo fiberâ€based multicolor photoacoustic detection and photothermal purging of metastasis in sentinel lymph nodes targeted by nanoparticles. Journal of Biophotonics, 2009, 2, 528-539.	2.3	107
30	Tissue optics, light distribution, and spectroscopy. Optical Engineering, 1994, 33, 3178.	1.0	104
31	Tissue Optics and Photonics: Light-Tissue Interaction. Journal of Biomedical Photonics and Engineering, 0, , 98-134.	0.7	104
32	In Vitro and in Vivo Visualization and Trapping of Fluorescent Magnetic Microcapsules in a Bloodstream. ACS Applied Materials & Interfaces, 2017, 9, 6885-6893.	8.0	102
33	Terahertz time-domain spectroscopy of biological tissues. Quantum Electronics, 2008, 38, 647-654.	1.0	100
34	Nondestructive Quantification of Analyte Diffusion in Cornea and Sclera Using Optical Coherence Tomography. , 2007, 48, 2726.		91
35	Measurement of tissue optical properties in the context of tissue optical clearing. Journal of Biomedical Optics, 2018, 23, 1.	2.6	90
36	Low-intensity indocyanine-green laser phototherapy of acne vulgaris: Pilot study. Journal of Biomedical Optics, 2004, 9, 828.	2.6	86

#	Article	IF	Citations
37	Quantitative analysis of dehydration in porcine skin for assessing mechanism of optical clearing. Journal of Biomedical Optics, 2011, 16, 095002.	2.6	86
38	Optical Clearing for OCT Image Enhancement and In-Depth Monitoring of Molecular Diffusion. IEEE Journal of Selected Topics in Quantum Electronics, 2012, 18, 1244-1259.	2.9	84
39	Enhanced optical clearing of skin in vivo and optical coherence tomography in-depth imaging. Journal of Biomedical Optics, 2012, 17, 066022.	2.6	83
40	Optical clearing of biological tissues: prospects of application in medical diagnostics and phototherapy. Journal of Biomedical Photonics and Engineering, 2015, 1, 22-58.	0.7	81
41	Enhanced OCT imaging of embryonic tissue with optical clearing. Laser Physics Letters, 2008, 5, 476-479.	1.4	80
42	Reflection-mode continuous-wave 0.15Î»-resolution terahertz solid immersion microscopy of soft biological tissues. Applied Physics Letters, 2018, 113, .	3.3	80
43	Recent progress in tissue optical clearing for spectroscopic application. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2018, 197, 216-229.	3.9	79
44	Terahertz spectroscopy of gelatin-embedded human brain gliomas of different grades: a road toward intraoperative THz diagnosis. Journal of Biomedical Optics, 2019, 24, 1.	2.6	75
45	Skin backreflectance and microvascular system functioning at the action of osmotic agents. Journal Physics D: Applied Physics, 2003, 36, 1739-1746.	2.8	74
46	Optical Clearing of Cranial Bone. Advances in Optical Technologies, 2008, 2008, 1-8.	0.8	74
47	Optical tomography of tissues. Quantum Electronics, 2002, 32, 849-867.	1.0	72
48	Depth-resolved monitoring of glucose diffusion in tissues by using optical coherence tomography. Optics Letters, 2006, 31, 2314.	3.3	72
49	Effect of dextran-induced changes in refractive index and aggregation on optical properties of whole blood. Physics in Medicine and Biology, 2003, 48, 1205-1221.	3.0	71
50	Optical clearing of skin using flashlamp-induced enhancement of epidermal permeability. Lasers in Surgery and Medicine, 2006, 38, 824-836.	2.1	71
51	Tissue Optics and Photonics: Biological Tissue Structures. Journal of Biomedical Photonics and Engineering, 2015, 1, 3-21.	0.7	71
52	Photothermal image flow cytometry in vivo. Optics Letters, 2005, 30, 628.	3.3	70
53	Optical properties of human stomach mucosa in the spectral range from 400 to 2000nm: Prognosis for gastroenterology. Medical Laser Application: International Journal for Laser Treatment and Research, 2007, 22, 95-104.	0.3	69
54	Near-infrared laser photothermal therapy of cancer by using gold nanoparticles: Computer simulations and experiment. Medical Laser Application: International Journal for Laser Treatment and Research, 2007, 22, 199-206.	0.3	67

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55	In vitro and in vivo study of dye diffusion into the human skin and hair follicles. Journal of Biomedical Optics, 2002, 7, 471.	2.6	66
56	In vivo photothermal flow cytometry: Imaging and detection of individual cells in blood and lymph flow. Journal of Cellular Biochemistry, 2006, 97, 916-932.	2.6	66
57	Optical clearing of human skin: comparative study of permeability and dehydration of intact and photothermally perforated skin. Journal of Biomedical Optics, 2008, 13, 021102.	2.6	66
58	Coherent Optical Techniques for the Analysis of Tissue Structure and Dynamics. Journal of Biomedical Optics, 1999, 4, 106.	2.6	65
59	In vivo investigation of the immersion-liquid-induced human skin clearing dynamics. Technical Physics Letters, 2001, 27, 489-490.	0.7	62
60	Gold nanoshell photomodification under a single-nanosecond laser pulse accompanied by color-shifting and bubble formation phenomena. Nanotechnology, 2008, 19, 015701.	2.6	62
61	Measurement of refractive index of hemoglobin in the visible/NIR spectral range. Journal of Biomedical Optics, 2018, 23, 1.	2.6	62
62	Tissue Optics and Photonics: Light-Tissue Interaction II. Journal of Biomedical Photonics and Engineering, 2016, 2, 030201.	0.7	62
63	A Clear Vision for Laser Diagnostics (Review). IEEE Journal of Selected Topics in Quantum Electronics, 2007, 13, 1621-1628.	2.9	61
64	Glycerol dehydration of native and diabetic animal tissues studied by THz-TDS and NMR methods. Biomedical Optics Express, 2018, 9, 1198.	2.9	60
65	Controling the scattering of Intralipid by using optical clearing agents. Physics in Medicine and Biology, 2009, 54, 6917-6930.	3.0	59
66	Design and evaluation of a novel portable erythema-melanin-meter. Lasers in Surgery and Medicine, 2004, 34, 127-135.	2.1	58
67	<title>Optical properties of human cranial bone in the spectral range from 800 to 2000 nm</title>. , 2006, , .		57
68	Optical clearing in photoacoustic flow cytometry. Biomedical Optics Express, 2013, 4, 3030.	2.9	57
69	Pilot study of transcranial photobiomodulation of lymphatic clearance of beta-amyloid from the mouse brain: breakthrough strategies for non-pharmacologic therapy of Alzheimerâ€™s disease. Biomedical Optics Express, 2019, 10, 4003.	2.9	56
70	Refractive index of solutions of human hemoglobin from the near-infrared to the ultraviolet range: Kramers-Kronig analysis. Journal of Biomedical Optics, 2012, 17, 115002.	2.6	55
71	Effects of Terahertz Radiation on Living Cells: a Review. Optics and Spectroscopy (English Translation) Tj ETQq1 1 0.784314 rgBT /Ov	0.6	55
72	Roadmap on holography. Journal of Optics (United Kingdom), 2020, 22, 123002.	2.2	54

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73	Monitoring of blood proteins glycation by refractive index and spectral measurements. Laser Physics Letters, 2008, 5, 460-464.	1.4	53
74	Differential permeability rate and percent clearing of glucose in different regions in rabbit sclera. Journal of Biomedical Optics, 2008, 13, 021110.	2.6	53
75	Optical properties of human colon tissues in the 350 â€“ 2500 nm spectral range. Quantum Electronics, 2014, 44, 779-784.	1.0	53
76	Accessing to arteriovenous blood flow dynamics response using combined laser speckle contrast imaging and skin optical clearing. Biomedical Optics Express, 2015, 6, 1977.	2.9	53
77	Study of the possibility of increasing the probing depth by the method of reflection confocal microscopy upon immersion clearing of near-surface human skin layers. Quantum Electronics, 2002, 32, 875-882.	1.0	52
78	Laser Light Scattering in Biomedical Diagnostics and Therapy. Journal of Laser Applications, 1993, 5, 43-60.	1.7	51
79	Enhanced photoinactivation of Staphylococcus aureus with nanocomposites containing plasmonic particles and hematoporphyrin. Journal of Biophotonics, 2013, 6, 338-351.	2.3	51
80	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
81	Advances in small animal mesentery models for in vivo flow cytometry, dynamic microscopy, and drug screening. World Journal of Gastroenterology, 2007, 13, 192.	3.3	51
82	Monitoring of glucose permeability in monkey skin in vivo using Optical Coherence Tomography. Journal of Biophotonics, 2010, 3, 25-33.	2.3	50
83	Theoretical study of immersion optical clearing of blood in vessels at local hemolysis. Optics Express, 2004, 12, 2966.	3.4	49
84	Multi-layered tissue head phantoms for noninvasive optical diagnostics. Journal of Innovative Optical Health Sciences, 2015, 08, 1541005.	1.0	49
85	Measurements of fundamental properties of homogeneous tissue phantoms. Journal of Biomedical Optics, 2015, 20, 045004.	2.6	48
86	Hydrogen bound water profiles in the skin influenced by optical clearing molecular agentsâ€”Quantitative analysis using confocal Raman microscopy. Journal of Biophotonics, 2019, 12, e201800283.	2.3	48
87	Functional imaging and assessment of the glucose diffusion rate in epithelial tissues in optical coherence tomography. Quantum Electronics, 2008, 38, 551-556.	1.0	46
88	ASSESSMENT OF TISSUE OPTICAL CLEARING AS A FUNCTION OF GLUCOSE CONCENTRATION USING OPTICAL COHERENCE TOMOGRAPHY. Journal of Innovative Optical Health Sciences, 2010, 03, 169-176.	1.0	45
89	Photonic crystal fibres in biomedical investigations. Quantum Electronics, 2011, 41, 284-301.	1.0	45
90	Ex vivo optical measurements of glucose diffusion kinetics in native and diabetic mouse skin. Journal of Biophotonics, 2015, 8, 332-346.	2.3	44

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91	Cellular effects of terahertz waves. Journal of Biomedical Optics, 2021, 26, .	2.6	44
92	Photobiomodulation of lymphatic drainage and clearance: perspective strategy for augmentation of meningeal lymphatic functions. Biomedical Optics Express, 2020, 11, 725.	2.9	44
93	Light scattering effects of gold nanoparticles in cells: FDTD modeling. Laser Physics Letters, 2006, 3, 594-598.	1.4	43
94	Optical properties of human sclera in spectral range 370â€“2500 nm. Optics and Spectroscopy (English) Tj ETQq0 0 0 rgBT /Overlock 10	0.6	43
95	Application of optical coherence tomography for in vivo monitoring of the meningeal lymphatic vessels during opening of bloodâ€“brain barrier: mechanisms of brain clearing. Journal of Biomedical Optics, 2017, 22, 1.	2.6	43
96	Skin optical clearing potential of disaccharides. Journal of Biomedical Optics, 2016, 21, 081207.	2.6	42
97	Confocal Raman microscopy supported by optical clearing treatment of the skinâ€”influence on collagen hydration. Journal Physics D: Applied Physics, 2017, 50, 285401.	2.8	42
98	Photodynamic opening of the blood-brain barrier and pathways of brain clearing. Journal of Biophotonics, 2018, 11, e201700287.	2.3	42
99	Optical properties of brain tissues at the different stages of glioma development in rats: pilot study. Biomedical Optics Express, 2019, 10, 5182.	2.9	42
100	Optical clearing of the eye sclerain vivocaused by glucose. Quantum Electronics, 2006, 36, 1119-1124.	1.0	41
101	Optical coherence tomography monitoring of enhanced skin optical clearing in ratsin vivo. Journal of Biomedical Optics, 2013, 19, 021109.	2.6	41
102	Imaging of subchondral bone by optical coherence tomography upon optical clearing of articular cartilage. Journal of Biophotonics, 2016, 9, 270-275.	2.3	41
103	Optical clearing of human dura mater. Optics and Spectroscopy (English Translation of Optika I) Tj ETQq1 1 0.784314 rgBT /Overlock 10	0.6	40
104	Immersion Clearing of Human Blood in the Visible and Near-Infrared Spectral Regions. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2005, 98, 638.	0.6	40
105	Visible and near-infrared spectroscopy for distinguishing malignant tumor tissue from benign tumor and normal breast tissuesin vitro. Journal of Biomedical Optics, 2013, 18, 077003.	2.6	40
106	Multifunctional Au nanoclusters for targeted bioimaging and enhanced photodynamic inactivation of Staphylococcus aureus. RSC Advances, 2015, 5, 61639-61649.	3.6	40
107	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
108	Blood refractive index modelling in the visible and near infrared spectral regions. Journal of Biomedical Photonics and Engineering, 2018, 4, 010503.	0.7	40

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109	<title>Estimation of wavelength dependence of refractive index of collagen fibers of scleral tissue</title>. Proceedings of SPIE, 2000, , .	0.8	39
110	In vivo high-speed imaging of individual cells in fast blood flow. Journal of Biomedical Optics, 2006, 11, 054034.	2.6	39
111	TiO2 nanoparticle enhanced photodynamic inhibition of pathogens. Laser Physics Letters, 0, 7, 607-612.	1.4	39
112	Enhancement of skin optical clearing efficacy using photoâ€irradiation. Lasers in Surgery and Medicine, 2010, 42, 132-140.	2.1	38
113	The characteristic time of glucose diffusion measured for muscle tissue at optical clearing. Laser Physics, 2013, 23, 075606.	1.2	38
114	Flow cytometry with gold nanoparticles and their clusters as scattering contrast agents: FDTD simulation of lightâ€“cell interaction. Journal of Biophotonics, 2009, 2, 505-520.	2.3	37
115	Diffusion characteristics of ethylene glycol in skeletal muscle. Journal of Biomedical Optics, 2014, 20, 051019.	2.6	37
116	Estimation of vessel diameter and blood flow dynamics from laser speckle images. Biomedical Optics Express, 2016, 7, 2759.	2.9	37
117	The Optical Clearing Method. SpringerBriefs in Physics, 2019, , .	0.7	37
118	In vivo optical monitoring of transcutaneous delivery of calcium carbonate microcontainers. Biomedical Optics Express, 2016, 7, 2082.	2.9	36
119	Mueller matrix polarimetry for characterizing microstructural variation of nude mouse skin during tissue optical clearing. Biomedical Optics Express, 2017, 8, 3559.	2.9	36
120	Optical Clearing of Tissues and Cells. Journal of Biomedical Optics, 2008, 13, 021101.	2.6	35
121	Special Section Guest Editorial: Polarized Light for Biomedical Applications. Journal of Biomedical Optics, 2016, 21, 071001.	2.6	35
122	A comparative study of ex vivo skin optical clearing using twoâ€photon microscopy. Journal of Biophotonics, 2017, 10, 1115-1123.	2.3	35
123	Glucose diffusion in colorectal mucosaâ€”a comparative study between normal and cancer tissues. Journal of Biomedical Optics, 2017, 22, 091506.	2.6	35
124	<title>In-vivo and in-vitro study of control of rat skin optical properties by action of osmotical liquid</title>. , 2000, 4224, 300.		34
125	Integrated photothermal flow cytometry in vivo. Journal of Biomedical Optics, 2005, 10, 051502.	2.6	34
126	Transfer of cells with uptaken nanocomposite, magnetite-nanoparticle functionalized capsules with electromagnetic tweezers. Biomaterials Science, 2018, 6, 2219-2229.	5.4	34

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127	<title>Optical properties of melanin in the skin and skinlike phantoms</title>. , 2000, , .		33
128	In vivo integrated flow image cytometry and lymph/blood vessels dynamic microscopy. Journal of Biomedical Optics, 2005, 10, 054018.	2.6	33
129	Photocatalytic activity of TiO₂nanoparticles: effect of thermal annealing under various gaseous atmospheres. Nanotechnology, 2012, 23, 475711.	2.6	33
130	Nanoparticle-free tissue-mimicking phantoms with intrinsic scattering. Biomedical Optics Express, 2016, 7, 2088.	2.9	33
131	Optical properties of peritoneal biological tissues in the spectral range of 350â€“2500 nm. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2016, 120, 1-8.	0.6	33
132	Refractive index of adipose tissue and lipid droplet measured in wide spectral and temperature ranges. Applied Optics, 2018, 57, 4839.	1.8	33
133	Photothermal flow cytometry in vitro for detection and imaging of individual moving cells. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2007, 71A, 191-206.	1.5	32
134	Multispectral sensing of biological liquids with hollow-core microstructured optical fibres. Light: Science and Applications, 2020, 9, 173.	16.6	32
135	Current status, pitfalls and future directions in the diagnosis and therapy of lymphatic malformation. Journal of Biophotonics, 2018, 11, e201700124.	2.3	31
136	Fundamentals and applications of dynamic speckles induced by focused laser beam scattering. Optical Engineering, 1994, 33, 3189.	1.0	30
137	Speckle interferometry for biotissue vibration measurement. Optical Engineering, 1994, 33, 908.	1.0	30
138	Transcutaneous delivery of micro- and nanoparticles with laser microporation. Journal of Biomedical Optics, 2013, 18, 111406.	2.6	30
139	Effect of a Controlled Release of Epinephrine Hydrochloride from PLGA Microchamber Array: In Vivo Studies. ACS Applied Materials & Interfaces, 2018, 10, 37855-37864.	8.0	30
140	Optical characterization and composition of abdominal wall muscle from rat. Optics and Lasers in Engineering, 2009, 47, 667-672.	3.8	29
141	THz monitoring of the dehydration of biological tissues affected by hyperosmotic agents. Physics of Wave Phenomena, 2014, 22, 169-176.	1.1	29
142	Photothermal and Photodynamic Therapy of Tumors with Plasmonic Nanoparticles: Challenges and Prospects. Materials, 2022, 15, 1606.	2.9	29
143	The response of tissue to laser light. , 2013, , 47-109.		28
144	Histogram analysis of laser speckle contrast image for cerebral blood flow monitoring. Frontiers of Optoelectronics, 2015, 8, 187-194.	3.7	28

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145	Optical clearing of skin tissue ex vivo with polyethylene glycol. Optics and Spectroscopy (English) Tj ETQq1 1 0.784314 rgBT /Overloc	0.6	28
146	Photostimulation of cerebral and peripheral lymphatic functions. Translational Biophotonics, 2020, 2, e201900036.	2.7	28
147	Optical clearing of skin under action of glycerol: Ex vivo and in vivo investigations. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2010, 109, 225-231.	0.6	27
148	Phototoxic effect of conjugates of plasmon-resonance nanoparticles with indocyanine green dye onStaphylococcus aureusinduced by IR laser radiation. Quantum Electronics, 2011, 41, 354-359.	1.0	27
149	In vitro terahertz monitoring of muscle tissue dehydration under the action of hyperosmotic agents. Quantum Electronics, 2014, 44, 633-640.	1.0	27
150	Quantification of laser local hyperthermia induced by gold plasmonic nanoparticles. Journal of Biomedical Optics, 2015, 20, 051030.	2.6	27
151	Optical clearing mechanisms characterization in muscle. Journal of Innovative Optical Health Sciences, 2016, 09, 1650035.	1.0	27
152	Skeletal muscle dispersion (400â€1000 nm) and kinetics at optical clearing. Journal of Biophotonics, 2018, 11, e201700094.	2.3	27
153	Photothermal imaging of moving cells in lymph and blood flow in vivo. , 2004, , .		27
154	Prospects of terahertz technology in diagnosis of human brain tumors â€“ A review. Journal of Biomedical Photonics and Engineering, 2020, 6, .	0.7	27
155	Effect of the scattering delay on time-dependent photon migration in turbid media. Applied Optics, 1997, 36, 6529.	2.1	26
156	Effect of red blood cell aggregation and sedimentation on optical coherence tomography signals from blood samples. Journal Physics D: Applied Physics, 2005, 38, 2582-2589.	2.8	26
157	In vivo dynamic light scattering imaging of blood coagulation. Journal of Biomedical Optics, 2007, 12, 052002.	2.6	26
158	Finger tissue model and blood perfused skin tissue phantom. , 2011, , .		26
159	Improved detectability of microcirculatory dynamics by laser speckle flowmetry. Journal of Biophotonics, 2015, 8, 790-794.	2.3	26
160	Transdermal platform for the delivery of the antifungal drug naftifine hydrochloride based on porous vaterite particles. Materials Science and Engineering C, 2021, 119, 111428.	7.3	26
161	Human sclera dynamic spectra: in-vitro and in-vivo measurements. , 1999, , .		25
162	Spectral Characteristics of Indocyanine Green upon Its Interaction with Biological Tissues. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2005, 99, 560.	0.6	25

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163	New closed-form approximation for skin chromophore mapping. Journal of Biomedical Optics, 2011, 16, 046012.	2.6	25
164	Fat tissue histological study at indocyanine green-mediated photothermal/photodynamic treatment of the skin in vivo. Journal of Biomedical Optics, 2012, 17, 058002.	2.6	25
165	Use of optical skin phantoms for preclinical evaluation of laser efficiency for skin lesion therapy. Journal of Biomedical Optics, 2015, 20, 085003.	2.6	25
166	Pulse-wave monitoring by means of focused laser beams scattered by skin surface and membranes. , 1993, 1884, 160.		24
167	Optimal hyperosmotic agents for tissue immersion optical clearing in terahertz biophotonics. Journal of Biophotonics, 2020, 13, e202000297.	2.3	24
168	Simple multimodal optical technique for evaluation of free/bound water and dispersion of human liver tissue. Journal of Biomedical Optics, 2017, 22, 1.	2.6	24
169	Wavelength dependence of the refractive index of human colorectal tissues: comparison between healthy mucosa and cancer. Journal of Biomedical Photonics and Engineering, 2016, 2, 040307.	0.7	24
170	<title>Light propagation in tissues with controlled optical properties</title>. , 1996, , .		23
171	Rat muscle opacity decrease due to the osmosis of a simple mixture. Journal of Biomedical Optics, 2010, 15, 055004.	2.6	23
172	Plasmon-Resonant Gold Nanostars With Variable Size as Contrast Agents for Imaging Applications. IEEE Journal of Selected Topics in Quantum Electronics, 2016, 22, 13-20.	2.9	23
173	A robust ex vivo method to evaluate the diffusion properties of agents in biological tissues. Journal of Biophotonics, 2019, 12, e201800333.	2.3	23
174	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
175	Terahertz dielectric spectroscopy and solid immersion microscopy of ex vivo glioma model 101.8: brain tissue heterogeneity. Biomedical Optics Express, 2021, 12, 5272.	2.9	23
176	Quantitative super-resolution solid immersion microscopy via refractive index profile reconstruction. Optica, 2021, 8, 1471.	9.3	23
177	Spatial speckle correlometry in applications to tissue structure monitoring. Applied Optics, 1997, 36, 5594.	2.1	22
178	Skin optical clearing for improvement of laser tattoo removal. Laser Physics, 2009, 19, 1312-1322.	1.2	22
179	The use of hollow-core photonic crystal fibres as biological sensors. Quantum Electronics, 2011, 41, 302-307.	1.0	22
180	Plasmonic photothermal therapy: Approaches to advanced strategy. Lasers in Surgery and Medicine, 2018, 50, 1025-1033.	2.1	22

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181	Light interaction with biological tissues: overview. , 1993, 1884, 234.		21
182	Optical properties of plasmon-resonant bare and silica-coated nanostars used for cell imaging. Journal of Biomedical Optics, 2015, 20, 076017.	2.6	21
183	The Role of Scattering in Quasi-Ordered Structures for Terahertz Imaging: Local Order Can Increase an Image Quality. IEEE Transactions on Terahertz Science and Technology, 2018, 8, 403-409.	3.1	21
184	Magnetic resonance contrast agents in optical clearing: Prospects for multimodal tissue imaging. Journal of Biophotonics, 2020, 13, e201960249.	2.3	21
185	Controlling optical properties of sclera. , 1995, , .		20
186	The application of speckle interferometry for the monitoring of blood and lymph flow in microvessels. Lasers in Medical Science, 1997, 12, 31-41.	2.1	20
187	Concentration effect on the diffusion of glucose in ocular tissues. Optics and Lasers in Engineering, 2008, 46, 911-914.	3.8	20
188	Towards the nature of biological zero in the dynamic light scattering diagnostic modalities. Doklady Physics, 2013, 58, 323-326.	0.7	20
189	Optical clearing at cellular level. Journal of Biomedical Optics, 2014, 19, 071409.	2.6	20
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