

# Valery Tuchin

## List of Publications by Citations

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761  
papers

13,357  
citations

55  
h-index

97  
g-index

1,202  
ext. papers

16,038  
ext. citations

2.3  
avg, IF

6.9  
L-index

#	Paper	IF	Citations
761	Optical properties of human skin, subcutaneous and mucous tissues in the wavelength range from 400 to 2000 nm. <i>Journal Physics D: Applied Physics</i> , <b>2005</b> , 38, 2543-2555	3	1009
760	A review of indocyanine green fluorescent imaging in surgery. <i>International Journal of Biomedical Imaging</i> , <b>2012</b> , 2012, 940585	5.2	664
759	OPTICAL PROPERTIES OF SKIN, SUBCUTANEOUS, AND MUSCLE TISSUES: A REVIEW. <i>Journal of Innovative Optical Health Sciences</i> , <b>2011</b> , 04, 9-38	1.2	377
758	Recent progress in tissue optical clearing. <i>Laser and Photonics Reviews</i> , <b>2013</b> , 7, 732-757	8.3	352
757	Optical amplification of photothermal therapy with gold nanoparticles and nanoclusters. <i>Nanotechnology</i> , <b>2006</b> , 17, 5167-5179	3.4	314
756	Light propagation in tissues with controlled optical properties. <i>Journal of Biomedical Optics</i> , <b>1997</b> , 2, 401-17	3.5	304
755	Tissue Optics <b>2007</b> ,		263
754	In vivo photoacoustic flow cytometry for monitoring of circulating single cancer cells and contrast agents. <i>Optics Letters</i> , <b>2006</b> , 31, 3623-5	3	172
753	Optical clearing of tissues and blood using the immersion method. <i>Journal Physics D: Applied Physics</i> , <b>2005</b> , 38, 2497-2518	3	165
752	Concurrent enhancement of imaging depth and contrast for optical coherence tomography by hyperosmotic agents. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2001</b> , 18, 948	1.7	155
751	Tissue Optics: Light Scattering Methods and Instruments for Medical Diagnosis <b>2015</b> ,		148
750	Tissue optical immersion clearing. <i>Expert Review of Medical Devices</i> , <b>2010</b> , 7, 825-42	3.5	146
749	Laser-induced tissue hyperthermia mediated by gold nanoparticles: toward cancer phototherapy. <i>Journal of Biomedical Optics</i> , <b>2009</b> , 14, 021016	3.5	145
748	Polarized light interaction with tissues. <i>Journal of Biomedical Optics</i> , <b>2016</b> , 21, 71114	3.5	142
747	Circulation and distribution of gold nanoparticles and induced alterations of tissue morphology at intravenous particle delivery. <i>Journal of Biophotonics</i> , <b>2009</b> , 2, 292-302	3.1	121
746	Photoacoustic flow cytometry: principle and application for real-time detection of circulating single nanoparticles, pathogens, and contrast dyes in vivo. <i>Journal of Biomedical Optics</i> , <b>2007</b> , 12, 051503	3.5	120
745	Gold nanorods with a hematoporphyrin-loaded silica shell for dual-modality photodynamic and photothermal treatment of tumors in vivo. <i>Nano Research</i> , <b>2014</b> , 7, 325-337	10	119

744	The refractive index of human hemoglobin in the visible range. <i>Physics in Medicine and Biology</i> , <b>2011</b> , 56, 4013-21	3.8	118
743	Dynamic optical coherence tomography in studies of optical clearing, sedimentation, and aggregation of immersed blood. <i>Applied Optics</i> , <b>2002</b> , 41, 258-71	1.7	118
742	Optical Polarization in Biomedical Applications <b>2006</b> ,		115
741	Terahertz biophotonics as a tool for studies of dielectric and spectral properties of biological tissues and liquids. <i>Progress in Quantum Electronics</i> , <b>2018</b> , 62, 1-77	9.1	113
740	Glucose and mannitol diffusion in human dura mater. <i>Biophysical Journal</i> , <b>2003</b> , 85, 3310-8	2.9	109
739	Optical Clearing of Tissues and Blood <b>2005</b> ,		102
738	In vivo skin optical clearing by glycerol solutions: mechanism. <i>Journal of Biophotonics</i> , <b>2010</b> , 3, 44-52	3.1	96
737	A pilot study of ICG laser therapy of acne vulgaris: photodynamic and photothermolysis treatment. <i>Lasers in Surgery and Medicine</i> , <b>2003</b> , 33, 296-310	3.6	96
736	In vivo multispectral, multiparameter, photoacoustic lymph flow cytometry with natural cell focusing, label-free detection and multicolor nanoparticle probes. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , <b>2008</b> , 73, 884-94	4.6	95
735	In vivo flow cytometry: a horizon of opportunities. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , <b>2011</b> , 79, 737-45	4.6	94
734	Towards Effective Photothermal/Photodynamic Treatment Using Plasmonic Gold Nanoparticles. <i>International Journal of Molecular Sciences</i> , <b>2016</b> , 17,	6.3	94
733	In vivo fiber-based multicolor photoacoustic detection and photothermal purging of metastasis in sentinel lymph nodes targeted by nanoparticles. <i>Journal of Biophotonics</i> , <b>2009</b> , 2, 528-39	3.1	92
732	Tissue optics, light distribution, and spectroscopy. <i>Optical Engineering</i> , <b>1994</b> , 33, 3178	1.1	85
731	Terahertz time-domain spectroscopy of biological tissues. <i>Quantum Electronics</i> , <b>2008</b> , 38, 647-654	1.8	83
730	Optical properties of the subcutaneous adipose tissue in the spectral range 400-500 nm. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , <b>2005</b> , 99, 836	0.7	79
729	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
728	In Vitro and in Vivo Visualization and Trapping of Fluorescent Magnetic Microcapsules in a Bloodstream. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 6885-6893	9.5	77
727	Nondestructive quantification of analyte diffusion in cornea and sclera using optical coherence tomography. <i>Investigative Ophthalmology and Visual Science</i> , <b>2007</b> , 48, 2726-33		71

726	Low-intensity indocyanine-green laser phototherapy of acne vulgaris: pilot study. <i>Journal of Biomedical Optics</i> , <b>2004</b> , 9, 828-34	3.5	69
725	Enhanced OCT imaging of embryonic tissue with optical clearing. <i>Laser Physics Letters</i> , <b>2008</b> , 5, 476-479	1.5	66
724	. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2012</b> , 18, 1244-1259	3.8	64
723	Enhanced optical clearing of skin in vivo and optical coherence tomography in-depth imaging. <i>Journal of Biomedical Optics</i> , <b>2012</b> , 17, 066022	3.5	63
722	Optical clearing of skin using flash lamp-induced enhancement of epidermal permeability. <i>Lasers in Surgery and Medicine</i> , <b>2006</b> , 38, 824-36	3.6	62
721	Photothermal image flow cytometry in vivo. <i>Optics Letters</i> , <b>2005</b> , 30, 628-30	3	61
720	Skin backreflectance and microvascular system functioning at the action of osmotic agents. <i>Journal Physics D: Applied Physics</i> , <b>2003</b> , 36, 1739-1746	3	61
719	Optical clearing of biological tissues: prospects of application in medical diagnostics and phototherapy. <i>Journal of Biomedical Photonics and Engineering</i> , <b>2015</b> , 1, 22-58	2.4	60
718	Recent progress in tissue optical clearing for spectroscopic application. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2018</b> , 197, 216-229	4.4	58
717	Quantitative analysis of dehydration in porcine skin for assessing mechanism of optical clearing. <i>Journal of Biomedical Optics</i> , <b>2011</b> , 16, 095002	3.5	58
716	Gold nanoshell photomodification under a single-nanosecond laser pulse accompanied by color-shifting and bubble formation phenomena. <i>Nanotechnology</i> , <b>2008</b> , 19, 015701	3.4	58
715	A Clear Vision for Laser Diagnostics (Review). <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2007</b> , 13, 1621-1628	3.8	57
714	Depth-resolved monitoring of glucose diffusion in tissues by using optical coherence tomography. <i>Optics Letters</i> , <b>2006</b> , 31, 2314-6	3	57
713	Optical Clearing of Cranial Bone. <i>Advances in Optical Technologies</i> , <b>2008</b> , 2008, 1-8		56
712	Effect of dextran-induced changes in refractive index and aggregation on optical properties of whole blood. <i>Physics in Medicine and Biology</i> , <b>2003</b> , 48, 1205-21	3.8	56
711	In vitro and in vivo study of dye diffusion into the human skin and hair follicles. <i>Journal of Biomedical Optics</i> , <b>2002</b> , 7, 471-7	3.5	56
710	Reflection-mode continuous-wave 0.15 $\mu$ m resolution terahertz solid immersion microscopy of soft biological tissues. <i>Applied Physics Letters</i> , <b>2018</b> , 113, 111102	3.4	56
709	Optical clearing of human skin: comparative study of permeability and dehydration of intact and photothermally perforated skin. <i>Journal of Biomedical Optics</i> , <b>2008</b> , 13, 021102	3.5	55

708	Near-infrared laser photothermal therapy of cancer by using gold nanoparticles: Computer simulations and experiment. <i>Medical Laser Application: International Journal for Laser Treatment and Research</i> , <b>2007</b> , 22, 199-206			55
707	Optical tomography of tissues. <i>Quantum Electronics</i> , <b>2002</b> , 32, 849-867	1.8		55
706	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
705	Controlling the scattering of intralipid by using optical clearing agents. <i>Physics in Medicine and Biology</i> , <b>2009</b> , 54, 6917-30	3.8		52
704	Optical properties of human stomach mucosa in the spectral range from 400 to 2000nm: Prognosis for gastroenterology. <i>Medical Laser Application: International Journal for Laser Treatment and Research</i> , <b>2007</b> , 22, 95-104			52
703	In vivo photothermal flow cytometry: imaging and detection of individual cells in blood and lymph flow. <i>Journal of Cellular Biochemistry</i> , <b>2006</b> , 97, 916-32	4.7		51
702	Tissue Optics and Photonics: Light-Tissue Interaction. <i>Journal of Biomedical Photonics and Engineering</i> , 98-134	2.4		51
701	Optical clearing in photoacoustic flow cytometry. <i>Biomedical Optics Express</i> , <b>2013</b> , 4, 3030-41	3.5		50
700	Measurement of tissue optical properties in the context of tissue optical clearing. <i>Journal of Biomedical Optics</i> , <b>2018</b> , 23, 1-31	3.5		50
699	Optical properties of human colon tissues in the 350-500 nm spectral range. <i>Quantum Electronics</i> , <b>2014</b> , 44, 779-784	1.8		49
698	Coherent optical techniques for the analysis of tissue structure and dynamics. <i>Journal of Biomedical Optics</i> , <b>1999</b> , 4, 106-24	3.5		49
697	Monitoring of blood proteins glycation by refractive index and spectral measurements. <i>Laser Physics Letters</i> , <b>2008</b> , 5, 460-464	1.5		47
696	Tissue Optics and Photonics: Biological Tissue Structures. <i>Journal of Biomedical Photonics and Engineering</i> , <b>2015</b> , 1, 3-21	2.4		47
695	Design and evaluation of a novel portable erythema-melanin-meter. <i>Lasers in Surgery and Medicine</i> , <b>2004</b> , 34, 127-35	3.6		46
694	Laser light scattering in biomedical diagnostics and therapy. <i>Journal of Laser Applications</i> , <b>1993</b> , 5, 43-60	2.1		46
693	Accessing to arteriovenous blood flow dynamics response using combined laser speckle contrast imaging and skin optical clearing. <i>Biomedical Optics Express</i> , <b>2015</b> , 6, 1977-89	3.5		45
692	Glycerol dehydration of native and diabetic animal tissues studied by THz-TDS and NMR methods. <i>Biomedical Optics Express</i> , <b>2018</b> , 9, 1198-1215	3.5		45
691	In vivo investigation of the immersion-liquid-induced human skin clearing dynamics. <i>Technical Physics Letters</i> , <b>2001</b> , 27, 489-490	0.7		45

690	Differential permeability rate and percent clearing of glucose in different regions in rabbit sclera. <i>Journal of Biomedical Optics</i> , <b>2008</b> , 13, 021110	3.5	44
689	Monitoring of glucose permeability in monkey skin in vivo using Optical Coherence Tomography. <i>Journal of Biophotonics</i> , <b>2010</b> , 3, 25-33	3.1	42
688	Advances in small animal mesentery models for in vivo flow cytometry, dynamic microscopy, and drug screening. <i>World Journal of Gastroenterology</i> , <b>2007</b> , 13, 192-218	5.6	42
687	Enhanced photoinactivation of Staphylococcus aureus with nanocomposites containing plasmonic particles and hematoporphyrin. <i>Journal of Biophotonics</i> , <b>2013</b> , 6, 338-51	3.1	41
686	Theoretical study of immersion optical clearing of blood in vessels at local hemolysis. <i>Optics Express</i> , <b>2004</b> , 12, 2966-71	3.3	41
685	Refractive index of solutions of human hemoglobin from the near-infrared to the ultraviolet range: Kramers-Kronig analysis. <i>Journal of Biomedical Optics</i> , <b>2012</b> , 17, 115002	3.5	39
684	Functional imaging and assessment of the glucose diffusion rate in epithelial tissues in optical coherence tomography. <i>Quantum Electronics</i> , <b>2008</b> , 38, 551-556	1.8	38
683	Light scattering effects of gold nanoparticles in cells: FDTD modeling. <i>Laser Physics Letters</i> , <b>2006</b> , 3, 594-598		38
682	Optical properties of human cranial bone in the spectral range from 800 to 2000 nm <b>2006</b> ,		38
681	Tissue Optics and Photonics: Light-Tissue Interaction II. <i>Journal of Biomedical Photonics and Engineering</i> , <b>2016</b> , 2, 030201	2.4	37
680	A Simple Non-Invasive Approach toward Efficient Transdermal Drug Delivery Based on Biodegradable Particulate System. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 17270-17282	9.5	36
679	TiO <sub>2</sub> nanoparticle enhanced photodynamic inhibition of pathogens. <i>Laser Physics Letters</i> , <b>2010</b> , 7, 607-612		36
678	Optical clearing of the eye sclera in vivo caused by glucose. <i>Quantum Electronics</i> , <b>2006</b> , 36, 1119-1124	1.8	36
677	Measurement of refractive index of hemoglobin in the visible/NIR spectral range. <i>Journal of Biomedical Optics</i> , <b>2018</b> , 23, 1-9	3.5	36
676	Ex vivo optical measurements of glucose diffusion kinetics in native and diabetic mouse skin. <i>Journal of Biophotonics</i> , <b>2015</b> , 8, 332-46	3.1	35
675	Confocal Raman microscopy supported by optical clearing treatment of the skin: Influence on collagen hydration. <i>Journal Physics D: Applied Physics</i> , <b>2017</b> , 50, 285401	3	34
674	Multifunctional Au nanoclusters for targeted bioimaging and enhanced photodynamic inactivation of Staphylococcus aureus. <i>RSC Advances</i> , <b>2015</b> , 5, 61639-61649	3.7	34
673	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. <i>Quantum Electronics</i> , <b>2002</b> , 32, 875-882	1.8	34

672	Skin optical clearing potential of disaccharides. <i>Journal of Biomedical Optics</i> , <b>2016</b> , 21, 081207	3.5	33
671	Photonic crystal fibres in biomedical investigations. <i>Quantum Electronics</i> , <b>2011</b> , 41, 284-301	1.8	32
670	In vivo high-speed imaging of individual cells in fast blood flow. <i>Journal of Biomedical Optics</i> , <b>2006</b> , 11, 054034	3.5	32
669	Optical clearing of human dura mater. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , <b>2005</b> , 98, 470-476	0.7	32
668	Application of optical coherence tomography for in vivo monitoring of the meningeal lymphatic vessels during opening of blood-brain barrier: mechanisms of brain clearing. <i>Journal of Biomedical Optics</i> , <b>2017</b> , 22, 1-9	3.5	32
667	Optical coherence tomography monitoring of enhanced skin optical clearing in rats in vivo. <i>Journal of Biomedical Optics</i> , <b>2014</b> , 19, 21109	3.5	31
666	Measurements of fundamental properties of homogeneous tissue phantoms. <i>Journal of Biomedical Optics</i> , <b>2015</b> , 20, 045004	3.5	31
665	Multi-layered tissue head phantoms for noninvasive optical diagnostics. <i>Journal of Innovative Optical Health Sciences</i> , <b>2015</b> , 08, 1541005	1.2	31
664	Photocatalytic activity of TiO <sub>2</sub> nanoparticles: effect of thermal annealing under various gaseous atmospheres. <i>Nanotechnology</i> , <b>2012</b> , 23, 475711	3.4	31
663	Integrated photothermal flow cytometry in vivo. <i>Journal of Biomedical Optics</i> , <b>2005</b> , 10, 051502	3.5	31
662	Hydrogen bound water profiles in the skin influenced by optical clearing molecular agents-Quantitative analysis using confocal Raman microscopy. <i>Journal of Biophotonics</i> , <b>2019</b> , 12, e201800283	3.1	31
661	In vivo optical monitoring of transcutaneous delivery of calcium carbonate microcontainers. <i>Biomedical Optics Express</i> , <b>2016</b> , 7, 2082-7	3.5	30
660	Optical properties of human sclera in spectral range 370-500 nm. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , <b>2010</b> , 109, 197-204	0.7	30
659	Flow cytometry with gold nanoparticles and their clusters as scattering contrast agents: FDTD simulation of light-cell interaction. <i>Journal of Biophotonics</i> , <b>2009</b> , 2, 505-20	3.1	30
658	Estimation of wavelength dependence of refractive index of collagen fibers of scleral tissue <b>2000</b> ,		30
657	Photodynamic opening of the blood-brain barrier and pathways of brain clearing. <i>Journal of Biophotonics</i> , <b>2018</b> , 11, e201700287	3.1	29
656	Enhancement of skin optical clearing efficacy using photo-irradiation. <i>Lasers in Surgery and Medicine</i> , <b>2010</b> , 42, 132-40	3.6	29
655	Blood refractive index modelling in the visible and near infrared spectral regions. <i>Journal of Biomedical Photonics and Engineering</i> , <b>2018</b> , 4, 010503	2.4	29

654	A comparative study of ex vivo skin optical clearing using two-photon microscopy. <i>Journal of Biophotonics</i> , <b>2017</b> , 10, 1115-1123	3.1	28
653	Glucose diffusion in colorectal mucosa-a comparative study between normal and cancer tissues. <i>Journal of Biomedical Optics</i> , <b>2017</b> , 22, 91506	3.5	28
652	The characteristic time of glucose diffusion measured for muscle tissue at optical clearing. <i>Laser Physics</i> , <b>2013</b> , 23, 075606	1.2	28
651	Diffusion characteristics of ethylene glycol in skeletal muscle. <i>Journal of Biomedical Optics</i> , <b>2015</b> , 20, 051019	3.5	28
650	ASSESSMENT OF TISSUE OPTICAL CLEARING AS A FUNCTION OF GLUCOSE CONCENTRATION USING OPTICAL COHERENCE TOMOGRAPHY. <i>Journal of Innovative Optical Health Sciences</i> , <b>2010</b> , 3, 169-176	1.2	28
649	Photothermal flow cytometry in vitro for detection and imaging of individual moving cells. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , <b>2007</b> , 71, 191-206	4.6	28
648	Immersion clearing of human blood in the visible and near-infrared spectral regions. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , <b>2005</b> , 98, 638	0.7	28
647	In vivo integrated flow image cytometry and lymph/blood vessels dynamic microscopy. <i>Journal of Biomedical Optics</i> , <b>2005</b> , 10, 054018	3.5	28
646	Effects of Terahertz Radiation on Living Cells: a Review. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , <b>2020</b> , 128, 855-866	0.7	28
645	Optical properties of peritoneal biological tissues in the spectral range of 350-500 nm. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , <b>2016</b> , 120, 1-8	0.7	27
644	Transfer of cells with uptaken nanocomposite, magnetite-nanoparticle functionalized capsules with electromagnetic tweezers. <i>Biomaterials Science</i> , <b>2018</b> , 6, 2219-2229	7.4	26
643	Transcutaneous delivery of micro- and nanoparticles with laser microporation. <i>Journal of Biomedical Optics</i> , <b>2013</b> , 18, 111406	3.5	26
642	Phototoxic effect of conjugates of plasmon-resonance nanoparticles with indocyanine green dye on <i>Staphylococcus aureus</i> induced by IR laser radiation. <i>Quantum Electronics</i> , <b>2011</b> , 41, 354-359	1.8	26
641	Fundamentals and applications of dynamic speckles induced by focused laser beam scattering. <i>Optical Engineering</i> , <b>1994</b> , 33, 3189	1.1	26
640	Imaging of subchondral bone by optical coherence tomography upon optical clearing of articular cartilage. <i>Journal of Biophotonics</i> , <b>2016</b> , 9, 270-5	3.1	26
639	THz monitoring of the dehydration of biological tissues affected by hyperosmotic agents. <i>Physics of Wave Phenomena</i> , <b>2014</b> , 22, 169-176	1.2	25
638	Estimation of vessel diameter and blood flow dynamics from laser speckle images. <i>Biomedical Optics Express</i> , <b>2016</b> , 7, 2759-68	3.5	25
637	Optical properties of brain tissues at the different stages of glioma development in rats: pilot study. <i>Biomedical Optics Express</i> , <b>2019</b> , 10, 5182-5197	3.5	24



636	Refractive index of adipose tissue and lipid droplet measured in wide spectral and temperature ranges. <i>Applied Optics</i> , <b>2018</b> , 57, 4839-4848	1.7	23
635	Mueller matrix polarimetry for characterizing microstructural variation of nude mouse skin during tissue optical clearing. <i>Biomedical Optics Express</i> , <b>2017</b> , 8, 3559-3570	3.5	23
634	In vitro terahertz monitoring of muscle tissue dehydration under the action of hyperosmotic agents. <i>Quantum Electronics</i> , <b>2014</b> , 44, 633-640	1.8	23
633	Optical clearing of skin under action of glycerol: Ex vivo and in vivo investigations. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , <b>2010</b> , 109, 225-231	0.7	23
632	Optical properties of melanin in the skin and skinlike phantoms <b>2000</b> ,		23
631	Speckle interferometry for biotissue vibration measurement. <i>Optical Engineering</i> , <b>1994</b> , 33, 908	1.1	23
630	Pilot study of transcranial photobiomodulation of lymphatic clearance of beta-amyloid from the mouse brain: breakthrough strategies for non-pharmacologic therapy of Alzheimer's disease. <i>Biomedical Optics Express</i> , <b>2019</b> , 10, 4003-4017	3.5	23
629	Skeletal muscle dispersion (400-1000 nm) and kinetics at optical clearing. <i>Journal of Biophotonics</i> , <b>2018</b> , 11, e201700094	3.1	23
628	Optical clearing mechanisms characterization in muscle. <i>Journal of Innovative Optical Health Sciences</i> , <b>2016</b> , 09, 1650035	1.2	22
627	Optical clearing of skin tissue ex vivo with polyethylene glycol. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , <b>2016</b> , 120, 28-37	0.7	22
626	The Optical Clearing Method. <i>SpringerBriefs in Physics</i> , <b>2019</b> ,	0.6	22
625	Effect of a Controlled Release of Epinephrine Hydrochloride from PLGA Microchamber Array: In Vivo Studies. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 37855-37864	9.5	22
624	Optical properties of plasmon-resonant bare and silica-coated nanostars used for cell imaging. <i>Journal of Biomedical Optics</i> , <b>2015</b> , 20, 76017	3.5	21
623	Improved detectability of microcirculatory dynamics by laser speckle flowmetry. <i>Journal of Biophotonics</i> , <b>2015</b> , 8, 790-4	3.1	21
622	Optical characterization and composition of abdominal wall muscle from rat. <i>Optics and Lasers in Engineering</i> , <b>2009</b> , 47, 667-672	4.6	21
621	Fat tissue histological study at indocyanine green-mediated photothermal/photodynamic treatment of the skin in vivo. <i>Journal of Biomedical Optics</i> , <b>2012</b> , 17, 058002	3.5	21
620	Histogram analysis of laser speckle contrast image for cerebral blood flow monitoring. <i>Frontiers of Optoelectronics</i> , <b>2015</b> , 8, 187-194	2.8	20
619	Visible and near-infrared spectroscopy for distinguishing malignant tumor tissue from benign tumor and normal breast tissues in vitro. <i>Journal of Biomedical Optics</i> , <b>2013</b> , 18, 077003	3.5	20

618	New closed-form approximation for skin chromophore mapping. <i>Journal of Biomedical Optics</i> , <b>2011</b> , 16, 046012	3.5	20
617	Effect of the scattering delay on time-dependent photon migration in turbid media. <i>Applied Optics</i> , <b>1997</b> , 36, 6529-38	1.7	20
616	In vivo dynamic light scattering imaging of blood coagulation. <i>Journal of Biomedical Optics</i> , <b>2007</b> , 12, 052002	3.5	20
615	Effect of red blood cell aggregation and sedimentation on optical coherence tomography signals from blood samples. <i>Journal Physics D: Applied Physics</i> , <b>2005</b> , 38, 2582-2589	3	20
614	Quantification of laser local hyperthermia induced by gold plasmonic nanoparticles. <i>Journal of Biomedical Optics</i> , <b>2015</b> , 20, 051030	3.5	19
613	Nanoparticle-free tissue-mimicking phantoms with intrinsic scattering. <i>Biomedical Optics Express</i> , <b>2016</b> , 7, 2088-94	3.5	19
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445	Optimization of power used in liver cancer microwave therapy by injection of Magnetic Nanoparticles (MNPs). <i>Computers in Biology and Medicine</i> , <b>2020</b> , 120, 103741	7	5
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436	Effect of storage conditions of skin samples on their optical characteristics. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , <b>2009</b> , 107, 934-938	0.7	5
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393	Controlling of tissue optical properties <b>2000</b> ,	4
392	Estimation of glucose diffusion coefficient in scleral tissue <b>2000</b> , 4001, 345	4
391	Osmotical liquid diffusion within sclera <b>2000</b> ,	4
390	Refractive index matching of tissue components as a new technology for correlation and diffusing-photon spectroscopy and imaging <b>1999</b> , 3598, 111	4
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388	Modeling of temperature distribution in the skin irradiated by visible laser-light <b>1994</b> ,	4
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363	The action of NIR (808nm) laser radiation and gold nanorods labeled with IgA and IgG human antibodies on methicillin-resistant and methicillin sensitive strains ofStaphylococcus aureus <b>2015</b> ,		3
362	Monitoring of temperature-mediated adipose tissue phase transitions by refractive-index measurements <b>2014</b> ,		3
361	Plasmon-resonant gold nanoparticles with variable morphology as optical labels and drug carriers for cytological research <b>2013</b> ,		3
360	Bioflow Measuring: Laser Doppler and Speckle Techniques <b>2013</b> , 487-563		3
359	Laser Speckle Imaging of Cerebral Blood Flow <b>2013</b> , 167-211		3
358	In vivo Image Flow Cytometry <b>2011</b> , 387-431		3
357	Optics of White Blood Cells: Optical Models, Simulations, and Experiments <b>2011</b> , 63-93		3
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341	Investigation of skin water loss and glycerol delivery through stratum corneum <b>2007</b> ,		3
340	In vitro study of indocyanine green solution interaction with skin <b>2007</b> ,		3
339	Estimation of melanin content in iris of human eye: Prognosis for glaucoma diagnostics <b>2006</b> ,		3
338	Optical clearing of human cranial bone by administration of immersion agents <b>2006</b> ,		3
337	Fluctuation of probe beam in thermolens schematics as potential indicator of cell metabolism, apoptosis, necrosis and laser impact <b>2006</b> ,		3
336	Thermal action on the lipocells <b>2003</b> ,		3
335	Possible mechanisms for optical clearing of whole blood by dextrans <b>2003</b> ,		3
334	Methylene blue diffusion in skin tissue <b>2004</b> ,		3
333	Double-wavelength laser scanning microphotometer (DWLSM) for in-vitro hair shaft and surrounding tissue imaging <b>2001</b> , 4244, 152		3
332	Whole blood and RBC sedimentation and aggregation study using OCT <b>2001</b> ,		3
331	Scleral tissue clearing effects <b>2002</b> ,		3

330	In-vitro study of methylene blue diffusion through the skin tissue <b>2002</b> , 4609, 29	3
329	Optical properties of hair shafts estimated using the digital video microscopic system and inverse Monte Carlo method <b>2002</b> , 4609, 1	3
328	Tissue image contrasting using optical immersion technique <b>2000</b> , 4224, 351	3
327	Diffusion of glucose solution through fibrous tissues: in-vitro optical and weight measurements <b>2000</b> , 4001, 255	3
326	Measurement of an optical anisotropy of biotissues <b>2000</b> ,	3
325	Analysis of the penetration process of drugs and cosmetic products into the skin by tape stripping in combination with spectroscopic measurements <b>2000</b> , 3915, 194	3
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321	Lasers and fiber optics in medicine <b>1993</b> ,	3
320	A comparison of terahertz optical constants and diffusion coefficients of tissue immersion optical clearing agents <b>2019</b> ,	3
319	Modeling of hyperthermia induced by functionalized gold nanorods bound to <i>Staphylococcus aureus</i> under NIR laser radiation <b>2019</b> ,	3
318	Measurement of optical properties of normal and pathological human liver tissue from deep-UV to NIR <b>2020</b> ,	3
317	Improved biomedical imaging over a wide spectral range from UV to THz towards multimodality <b>2020</b> ,	3
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311	Optical Clearing of Biological Tissues: Prospects of Application for Multimodal Malignancy Diagnostics <b>2020</b> , 107-131		3
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292	Investigation of photothermolysis therapy of human skin diseases using optical phantoms <b>2015</b> ,		2
291	Review of Indocyanine Green Imaging in Surgery <b>2015</b> , 35-53		2
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278	Terahertz image processing for the skin cancer diagnostic <b>2014</b> ,		2
277	Iron oxide nanoparticles in different modifications for antimicrobial phototherapy <b>2014</b> ,		2

276	Effect of bacterial lectin on acceleration of fat cell lipolysis at in vitro diode laser treatment using encapsulated ICG <b>2012</b> ,		2
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272	Microfluidic Flow Cytometry: Advancements toward Compact, Integrated Systems <b>2011</b> , 273-310		2
271	Instrumentation for In vivo Flow Cytometry in Sickle Cell Anemia Case Study <b>2011</b> , 433-461		2
270	Biomedical optics and spectroscopy. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , <b>2010</b> , 109, 151-153	0.7	2
269	Laser-induced thermal dynamics and temperature localization phenomenon in tissues and cells doped with nanoshells <b>2012</b> ,		2
268	Front Matter: Volume 8337 <b>2012</b> ,		2
267	Tooth study by terahertz time-domain spectroscopy <b>2008</b> ,		2
266	FDTD simulation of optical phase contrast microscope imaging <b>2008</b> ,		2
265	Simulation and modeling of optical phase contrast microscope cellular nanobioimaging <b>2008</b> ,		2
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263	Optical phase contrast microscope imaging: a FDTD modeling approach <b>2008</b> ,		2
262	Mechanisms of in vivo optical clearing of human skin at application of glycerol and lattice-like photothermal damage of stratum corneum <b>2006</b> ,		2
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236	Differentiation of healthy and malignant brain tissues using terahertz pulsed spectroscopy and optical coherence tomography <b>2019</b> ,		2
235	Medical diagnosis using NIR and THz tissue imaging and machine learning methods <b>2019</b> ,		2
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