Valery Tuchin

List of Publications by Year in Descending Order

Source: https://exaly.com/author-pdf/1186974/valery-tuchin-publications-by-year.pdf
Version: 2024-04-23

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.
The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	MR and fluorescence imaging of gadobutrol-induced optical clearing of red fluorescent protein signal in an in vivo cancer model.. *NMR in Biomedicine*, **2022**, e4708	4.4	0
760	Study of adsorption of the SARS-CoV-2 virus spike protein by vibrational spectroscopy using terahertz metamaterials. *Quantum Electronics*, **2022**, 52, 2-12	1.8	0
759	Photothermal and Photodynamic Therapy of Tumors with Plasmonic Nanoparticles: Challenges and Prospects.. *Materials*, **2022**, 15,	3.5	2
758	Fast Estimation of the Spectral Optical Properties of Rabbit Pancreas and Pigment Content Analysis. *Photonics*, **2022**, 9, 122	2.2	1
757	Continuously tunable middle-IR bandpass filters based on gradient metal-hole arrays for multispectral sensing and thermography. *Journal of Applied Physics*, **2022**, 131, 123103	2.5	
756	Terahertz solid immersion microscopy: Recent achievements and challenges. *Applied Physics Letters* , **2022**, 120, 110501	3.4	3
755	Immersion optical clearing of adipose tissue in rats: ex vivo and in vivo studies.. *Journal of Biophotonics*, **2022**, e202100393	3.1	0
754	Changes in Optical Properties of Model Cholangiocarcinoma after Plasmon-Resonant Photothermal Treatment. *Photonics*, **2022**, 9, 199	2.2	
753	Integrated binary hologram to monitor cargo release from a drug-eluting film. *Light Advanced Manufacturing*, **2022**, 3, 1	1	0
752	Methods of Studying Ultraweak Photon Emission from Biological Objects: III. Physical Methods. *Biophysics (Russian Federation)*, **2022**, 67, 27-58	0.7	
751	Photodynamic Therapy of Brain Diseases **2022**, 125-145		
750	Photoemission of Plasmonic Gold Nanostars in Laser-Controlled Electron Current Devices for Technical and Biomedical Applications. *Sensors*, **2022**, 22, 4127	3.8	
749	Molecular modeling of post-diffusion stage of biotissue optical clearing under effect of iohexol aqueous solution. *Journal of Physics: Conference Series*, **2021**, 2103, 012048	0.3	
748	Study of the Photocatalytic Antimicrobial Activity of Nanocomposites Based on TiO2–Al2O3 under Action of LED Radiation (405 nm) on Staphylococci. *Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)*, **2021**, 129, 846	0.7	
747	Terahertz dielectric spectroscopy of human brain gliomas and intact tissues : double-Debye and double-overdamped-oscillator models of dielectric response. *Biomedical Optics Express*, **2021**, 12, 69-83	3.5	18
746	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, 380-394	3.5	4
745	Optical clearing of tissues: Issues of antimicrobial phototherapy and drug delivery. *Advanced Drug Delivery Reviews*, **2021**, 180, 114037	18.5	3

744	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	3.7	0
743	Diffuse reflectance and machine learning techniques to differentiate colorectal cancer ex vivo. *Chaos*, **2021**, 31, 053118	3.3	5
742	Estimation of Rabbit Pancreas Dispersion Between 400 and 1000 nm. *Journal of Biomedical Photonics and Engineering*, **2021**, 7, 020303	2.4	3
741	Optical coherence microangiography of the mouse kidney for diagnosis of circulatory disorders. *Biomedical Optics Express*, **2021**, 12, 4467-4477	3.5	3
740	Terahertz dielectric spectroscopy and solid immersion microscopy of glioma model 101.8: brain tissue heterogeneity. *Biomedical Optics Express*, **2021**, 12, 5272-5289	3.5	8
739	Biophotonic Strategies of Measurement and Stimulation of the Cranial and the Extracranial Lymphatic Drainage Function. *IEEE Journal of Selected Topics in Quantum Electronics*, **2021**, 27, 1-13	3.8	3
738	Refractive Index Matching Efficiency in Colorectal Mucosa Treated With Glycerol. *IEEE Journal of Selected Topics in Quantum Electronics*, **2021**, 27, 1-8	3.8	3
737	Corrections to Detection of Melanoma Cells in Whole Blood Samples Using Spectral Imaging and Optical Clearing[Jul/Aug 21 Art. no. 7200711]. *IEEE Journal of Selected Topics in Quantum Electronics*, **2021**, 27, 1-1	3.8	
736	Transdermal platform for the delivery of the antifungal drug naftifine hydrochloride based on porous vaterite particles. *Materials Science and Engineering C*, **2021**, 119, 111428	8.3	12
735	Target delivery of drug carriers in mice kidney glomeruli via renal artery. Balance between efficiency and safety. *Journal of Controlled Release*, **2021**, 329, 175-190	11.7	11
734	Concept of photonic hook scalpel generated by shaped fiber tip with asymmetric radiation. *Journal of Biophotonics*, **2021**, 14, e202000342	3.1	7
733	. *IEEE Journal of Selected Topics in Quantum Electronics*, **2021**, 27, 1-8	3.8	11
732	Interaction of laser radiation and complexes of gold nanoparticles linked with proteins. *Quantum Electronics*, **2021**, 51, 52-63	1.8	
731	Kinetic parameters of the change of optical properties of the gingiva under immersion in glycerol: ex vivo research. *Molekulyarnaya Meditsina (Molecular Medicine)*, **2021**, 19, 44-50	0.1	
730	Development of a personalized approach for determining pathological areas in the oral mucosa based on the determination of the gingiva permeability to methylene blue. *Molekulyarnaya Meditsina (Molecular Medicine)*, **2021**, 19, 47-52	0.1	
729	Modeling of Laser-Induced Plasmon Effects in GNS-DLC-Based Material for Application in X-ray Source Array Sensors. *Sensors*, **2021**, 21,	3.8	1
728	Ex vivo three-dimensional elemental imaging of mouse brain tissue block by laser-induced breakdown spectroscopy. *Journal of Biophotonics*, **2021**, 14, e202000479	3.1	3
727	Prospects for multimodal visualisation of biological tissues using fluorescence imaging. *Quantum Electronics*, **2021**, 51, 104-117	1.8	0

726	Optical clearing of laser-induced tissue plasma. *Laser Physics Letters*, **2021**, 18, 085603	1.5	1
725	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	3.8	5
724	3D models of the dynamics of cancer cells under external pressure. *Chaos*, **2021**, 31, 083122	3.3	0
723	Spectral Optical Properties of Rabbit Brain Cortex between 200 and 1000 nm. *Photochem*, **2021**, 1, 190-208		2
722	Cellular effects of terahertz waves. *Journal of Biomedical Optics*, **2021**, 26,	3.5	18
721	Impact of optical clearing on ex vivo human skin optical properties characterized by spatially resolved multimodal spectroscopy. *Journal of Biophotonics*, **2021**, e202100202	3.1	1
720	Porous Phantoms Mimicking Tissues-Investigation of Optical Parameters Stability Over Time. *Materials*, **2021**, 14,	3.5	2
719	Optical Clearing of Biological Tissues with a Number of Disaccharides. *Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)*, **2021**, 129, 763-769	0.7	1
718	Ex vivo confocal Raman microspectroscopy of porcine dura mater supported by optical clearing.. *Journal of Biophotonics*, **2021**, e202100332	3.1	0
717	In vivo detection of human cutaneous beta-carotene using computational optical clearing. *Journal of Biophotonics*, **2020**, 13, e202000124	3.1	
716	Overcoming the Abbe Diffraction Limit Using a Bundle of Metal-Coated High-Refractive-Index Sapphire Optical Fibers. *Advanced Optical Materials*, **2020**, 8, 2000307	8.1	11
715	Optical clearing for photoacoustic lympho- and angiography beyond conventional depth limit. *Photoacoustics*, **2020**, 20, 100186	9	10
714	Functionalized Microstructured Optical Fibers: Materials, Methods, Applications. *Materials*, **2020**, 13,	3.5	9
713	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	2.4	2
712	Optimized skin optical clearing for optical coherence tomography monitoring of encapsulated drug delivery through the hair follicles. *Journal of Biophotonics*, **2020**, 13, e201960020	3.1	7
711	Laser-triggered drug release from polymeric 3-D micro-structured films via optical fibers. *Materials Science and Engineering C*, **2020**, 110, 110664	8.3	10
710	Optimization of power used in liver cancer microwave therapy by injection of Magnetic Nanoparticles (MNPs). *Computers in Biology and Medicine*, **2020**, 120, 103741	7	5
709	Rapid Ultrasound Optical Clearing of Human Light and Dark Skin. *IEEE Transactions on Medical Imaging*, **2020**, 39, 3198-3206	11.7	5

708	Integrated effects of fractional laser microablation and sonophoresis on skin immersion optical clearing in vivo. *Journal of Biophotonics*, **2020**, 13, e202000101	3.1	1
707	Infrared neurostimulation of earthworm: from modeling to experiment. *Optical Engineering*, **2020**, 59, 1	1.1	1
706	Numerical modeling of plasmonic properties of gold nanostars to prove the threshold nature of their modification under laser pulse. *Optical Engineering*, **2020**, 59, 1	1.1	4
705	Measurement of optical properties of normal and pathological human liver tissue from deep-UV to NIR **2020**,		3
704	Improved biomedical imaging over a wide spectral range from UV to THz towards multimodality **2020**,		3
703	Photodynamic therapy of brain tumors and novel optical coherence tomography strategies forin vivomonitoring of cerebral fluid dynamics. *Journal of Innovative Optical Health Sciences*, **2020**, 13, 2030004	1.2	9
702	Photobiomodulation of lymphatic drainage and clearance: perspective strategy for augmentation of meningeal lymphatic functions. *Biomedical Optics Express*, **2020**, 11, 725-734	3.5	13
701	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, 6780-6798	3.5	6
700	Prospects of terahertz technology in diagnosis of human brain tumors □A review. *Journal of Biomedical Photonics and Engineering*, **2020**, 6,	2.4	13
699	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,	2.4	5
698	Terahertz Spectroscopy and Imaging of Brain Tumors **2020**, 551-574		1
697	Optical Clearing of Biological Tissues: Prospects of Application for Multimodal Malignancy Diagnostics **2020**, 107-131		3
696	Malignant Tissue Optical Properties **2020**, 3-106		0
695	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	0.7	1
694	Special Section Guest Editorial: Terahertz and Infrared Optics: Towards Biophotonics. *Optical Engineering*, **2020**, 59, 1	1.1	
693	Kinetics of optical clearing of human skin studied in vivo using portable Raman spectroscopy. *Laser Physics Letters*, **2020**, 17, 105601	1.5	7
692	Roadmap on holography. *Journal of Optics (United Kingdom)*, **2020**, 22, 123002	1.7	16
691	Phenomenon of music-induced opening of the blood-brain barrier in healthy mice. *Proceedings of the Royal Society B: Biological Sciences*, **2020**, 287, 20202337	4.4	8

690	The progress and perspectives of terahertz technology for diagnosis of neoplasms: a review. *Journal of Optics (United Kingdom)*, **2020**, 22, 013001	1.7	79
689	Enhanced topical psoralen-ultraviolet A therapy via targeting to hair follicles. *British Journal of Dermatology*, **2020**, 182, 1479-1481	4	9
688	Effect of Systemic Polyelectrolyte Microcapsule Administration on the Blood Flow Dynamics of Vital Organs. *ACS Biomaterials Science and Engineering*, **2020**, 6, 389-397	5.5	11
687	Control of the optical properties of gum and dentin tissue of a human tooth at laser spectral lines in the range of 200800 nm. *Quantum Electronics*, **2020**, 50, 47-54	1.8	2
686	Multispectral sensing of biological liquids with hollow-core microstructured optical fibres. *Light: Science and Applications*, **2020**, 9, 173	16.7	13
685	Efficiency of Plasmonic Photothermal Therapy of Experimental Tumors. *Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)*, **2020**, 128, 849-854	0.7	
684	Magnetic resonance contrast agents in optical clearing: Prospects for multimodal tissue imaging. *Journal of Biophotonics*, **2020**, 13, e201960249	3.1	10
683	Effects of Terahertz Radiation on Living Cells: a Review. *Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)*, **2020**, 128, 855-866	0.7	28
682	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 Spektroskopiya)*, **2020**, 128, 759-765	0.7	1
681	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	0.7	
680	Microfocusing sapphire capillary needle for laser surgery and therapy: Fabrication and characterization. *Journal of Biophotonics*, **2020**, 13, e202000164	3.1	1
679	Photostimulation of cerebral and peripheral lymphatic functions. *Translational Biophotonics*, **2020**, 2, e201900036	2.2	6
678	Lipofuscin-Type Pigment as a Marker of Colorectal Cancer. *Electronics (Switzerland)*, **2020**, 9, 1805	2.6	5
677	Prospective Nanotechnology-Based Strategies for Enhanced Intra- and Transdermal Delivery of Antifungal Drugs. *Skin Pharmacology and Physiology*, **2020**, 33, 261-269	3	6
676	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	0.7	5
675	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	0.7	0
674	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	0.7	4
673	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	0.7	3

672	Optimal hyperosmotic agents for tissue immersion optical clearing in terahertz biophotonics. *Journal of Biophotonics*, **2020**, 13, e202000297	3.1	14
671	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	0.7	7
670	Optical Clearing of Human Skin Using Some Monosaccharides in vivo. *Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)*, **2019**, 127, 352-358	0.7	3
669	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	0.7	
668	Spectral Monitoring of Naftifine Immobilization into Submicron Vaterite Particles. *Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)*, **2019**, 126, 539-544	0.7	4
667	Measuring optical properties of human liver between 400 and 1000 nm. *Quantum Electronics*, **2019**, 49, 13-19	1.8	11
666	Multimodal Optical Diagnostics of Glycated Biological Tissues. *Biochemistry (Moscow)*, **2019**, 84, S124-S143	1.9	9
665	Methods for Optical Skin Clearing in Molecular Optical Imaging in Dermatology. *Biochemistry (Moscow)*, **2019**, 84, S144-S158	2.9	10
664	Microstructured Optical Waveguide-Based Endoscopic Probe Coated with Silica Submicron Particles. *Materials*, **2019**, 12,	3.5	8
663	A Simple Non-Invasive Approach toward Efficient Transdermal Drug Delivery Based on Biodegradable Particulate System. *ACS Applied Materials & Interfaces*, **2019**, 11, 17270-17282	9.5	36
662	Kinetics of Optical Properties of Colorectal Muscle During Optical Clearing. *IEEE Journal of Selected Topics in Quantum Electronics*, **2019**, 25, 1-8	3.8	13
661	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	0.7	
660	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	0.7	5
659	Depth-Resolved Enhanced Spectral-Domain OCT Imaging of Live Mammalian Embryos Using Gold Nanoparticles as Contrast Agent. *Small*, **2019**, 15, e1902346	11	12
658	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	0.7	3
657	Effect of light scattering on biological tissue thermometry from photoluminescence spectra of up-conversion nanoparticles. *Quantum Electronics*, **2019**, 49, 59-62	1.8	2
656	An Experimentally Trained Noise Filtration Method of Optical Coherence Tomography Signals. *Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)*, **2019**, 126, 587-594	0.7	1
655	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	0.7	1

654	Moving tissue spectral window to the deep-ultraviolet via optical clearing. *Journal of Biophotonics*, **2019**, 12, e201900181	3.1	9
653	Skin and subcutaneous fat morphology alterations under the LED or laser treatment in rats in vivo. *Journal of Biophotonics*, **2019**, 12, e201900117	3.1	3
652	Optimization of sapphire capillary needles for interstitial and percutaneous laser medicine. *Journal of Biomedical Optics*, **2019**, 24, 1-7	3.5	5
651	Terahertz spectroscopy of gelatin-embedded human brain gliomas of different grades: a road toward intraoperative THz diagnosis. *Journal of Biomedical Optics*, **2019**, 24, 1-5	3.5	53
650	Differentiation of healthy and malignant brain tissues using terahertz pulsed spectroscopy and optical coherence tomography **2019**,		2
649	Medical diagnosis using NIR and THz tissue imaging and machine learning methods **2019**,		2
648	Terahertz pulse time-domain holography method for phase imaging of breast tissue **2019**,		2
647	A comparison of terahertz optical constants and diffusion coefficients of tissue immersion optical clearing agents **2019**,		3
646	A method for reconstruction of terahertz dielectric response of thin liquid samples **2019**,		1
645	The peculiarities of localized laser heating of a tissue doped by gold nanostars **2019**,		1
644	Modeling of hyperthermia induced by functionalized gold nanorods bound to Staphylococcus aureus under NIR laser radiation **2019**,		3
643	Head model based on the shape of the subject's head for optical brain imaging. *Biomedical Optics Express*, **2019**, 10, 2795-2808	3.5	3
642	Study on the tissue clearing process using different agents by Mueller matrix microscope. *Biomedical Optics Express*, **2019**, 10, 3269-3280	3.5	7
641	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. *Biomedical Optics Express*, **2019**, 10, 4003-4017	3.5	23
640	Optical properties of brain tissues at the different stages of glioma development in rats: pilot study. *Biomedical Optics Express*, **2019**, 10, 5182-5197	3.5	24
639	Enabling magnetic resonance imaging of hollow-core microstructured optical fibers via nanocomposite coating. *Optics Express*, **2019**, 27, 9868-9878	3.3	9
638	Differentiation of basal cell carcinoma and healthy skin using multispectral modulation autofluorescence imaging: A pilot study. *Journal of Biomedical Photonics and Engineering*, **2019**, 5, 010302	2.4	2
637	Optical Clearing of the Gastric Mucosa Using 40%-glucose Solution. *Journal of Biomedical Photonics and Engineering*, **2019**, 5,	2.4	2

636	Targeted photosensitizer delivery: A prospective approach to vitiligo photochemotherapy. *Vestnik Dermatologii I Venerologii*, **2019**, 95, 21-29	0.4	3
635	Major Optical Clearing Mechanisms. *SpringerBriefs in Physics*, **2019**, 49-59	0.6	
634	Other Applications of Optical Clearing Agents. *SpringerBriefs in Physics*, **2019**, 139-161	0.6	
633	Optical Clearing and Tissue Imaging. *SpringerBriefs in Physics*, **2019**, 107-138	0.6	
632	Typical Optical Clearing Agents. *SpringerBriefs in Physics*, **2019**, 35-48	0.6	
631	Tissue Optics. *SpringerBriefs in Physics*, **2019**, 1-15	0.6	1
630	Data that Can Be Acquired from Optical Clearing Studies. *SpringerBriefs in Physics*, **2019**, 79-105	0.6	
629	Measurements During Optical Clearing. *SpringerBriefs in Physics*, **2019**, 61-77	0.6	0
628	Future Perspectives of the Optical Clearing Method. *SpringerBriefs in Physics*, **2019**, 163-172	0.6	
627	Speckle-contrast imaging of pathological tissue microhemodynamics at optical clearing **2019**,		1
626	Estimation of dehydration of skin by refractometric method using optical clearing agents. *Journal of Biomedical Photonics and Engineering*, **2019**, 5,	2.4	2
625	Effect of ethanol on the transport of methylene blue through the rat skin ex vivo **2019**,		1
624	Diffusion of methylene blue in human dentin in the presence of glucose: in vitro study **2019**,		1
623	Source separation approach for the analysis of spatially resolved multiply excited autofluorescence spectra during optical clearing of skin. *Biomedical Optics Express*, **2019**, 10, 3410-3424	3.5	4
622	Clinical studies of the combined action of ultraviolet and laser (662 nm) radiation with methylene blue for local therapy of defects of oral mucosa in chronic recurrent aphthous stomatitis **2019**,		1
621	Optical coherence tomography of human brain glioma as a promising tool for intraoperative diagnostics in neurosurgery **2019**,		2
620	Study of malignant brain gliomas using optical coherence tomography and terahertz pulsed spectroscopy aimed on advanced intraoperative neurodiagnosis **2019**,		1
619	APPLICATION OF THERAHERTZ TECHNOLOGIES IN BIOPHOTONICS. Part 2: Spectroscopy and imaging of malignant neoplasms [illegible]. [illegible] 2: [illegible] *Photonics Russia*, **2019**, 13, 736-742	0.5	

618	Controlling the Optical Properties of Biological Materials. *SpringerBriefs in Physics*, **2019**, 17-34	0.6	1
617	In vivo optical clearing of human skin under the effect of aqueous solutions of some monosaccharides. *Journal of Physics: Conference Series*, **2019**, 1400, 033018	0.3	1
616	The Optical Clearing Method. *SpringerBriefs in Physics*, **2019**,	0.6	22
615	A robust ex vivo method to evaluate the diffusion properties of agents in biological tissues. *Journal of Biophotonics*, **2019**, 12, e201800333	3.1	14
614	Hydrogen bound water profiles in the skin influenced by optical clearing molecular agents-Quantitative analysis using confocal Raman microscopy. *Journal of Biophotonics*, **2019**, 12, e201800283	3.1	31
613	Kinetics of Rat Skin Optical Clearing at Topical Application of 40%Glucose: Ex Vivo and In Vivo Studies. *IEEE Journal of Selected Topics in Quantum Electronics*, **2019**, 25, 1-8	3.8	9
612	Intravital molecular tagging velocimetry of cerebral blood flow using Evans Blue. *Journal of Biophotonics*, **2018**, 11, e201700343	3.1	7
611	Recent progress in tissue optical clearing for spectroscopic application. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2018**, 197, 216-229	4.4	58
610	Molecular modeling of immersion optical clearing of biological tissues. *Journal of Molecular Modeling*, **2018**, 24, 45	2	12
609	Photodynamic opening of the blood-brain barrier and pathways of brain clearing. *Journal of Biophotonics*, **2018**, 11, e201700287	3.1	29
608	Controlling the near-infrared transparency of costal cartilage by impregnation with clearing agents and magnetite nanoparticles. *Journal of Biophotonics*, **2018**, 11, e201700105	3.1	10
607	Current status, pitfalls and future directions in the diagnosis and therapy of lymphatic malformation. *Journal of Biophotonics*, **2018**, 11, e201700124	3.1	18
606	A robust model of an OCT signal in a spectral domain. *Laser Physics Letters*, **2018**, 15, 086201	1.5	4
605	Opticalin vivoandex vivoimaging of glioma cells migration via the cerebral vessels: Prospective clinical application of the beta2-adrenoreceptors blockade for glioma treatment. *Journal of Innovative Optical Health Sciences*, **2018**, 11, 1850025	1.2	3
604	Control of optical transparency and infrared laser heating of costal cartilage via injection of iohexol. *Journal of Biophotonics*, **2018**, 11, e201800195	3.1	9
603	Transfer of cells with uptaken nanocomposite, magnetite-nanoparticle functionalized capsules with electromagnetic tweezers. *Biomaterials Science*, **2018**, 6, 2219-2229	7.4	26
602	Glycerol dehydration of native and diabetic animal tissues studied by THz-TDS and NMR methods. *Biomedical Optics Express*, **2018**, 9, 1198-1215	3.5	45
601	Plasmonic photothermal therapy: Approaches to advanced strategy. *Lasers in Surgery and Medicine*, **2018**, 50, 1025-1033	3.6	16

600	Refractive properties of human adipose tissue at hyperthermic temperatures **2018**,		1
599	Refractive index of adipose tissue and lipid droplet measured in wide spectral and temperature ranges. *Applied Optics*, **2018**, 57, 4839-4848	1.7	23
598	Sub-wavelength-resolution imaging of biological tissues using THz solid immersion microscopy **2018**,		1
597	Estimation of beta-carotene using calibrated reflection spectroscopy method: phantom study **2018**,		1
596	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	3.4	12
595	Optical monitoring of adipose tissue destruction under encapsulated lipase action. *Journal of Biophotonics*, **2018**, 11, e201800058	3.1	7
594	Nanolayers in Fiber-Optic Biosensing **2018**, 395-426		2
593	Monitoring of temperature-mediated phase transitions of adipose tissue by combined optical coherence tomography and Abbe refractometry. *Journal of Biomedical Optics*, **2018**, 23, 1-9	3.5	5
592	Kinetics of optical properties of human colorectal tissues during optical clearing: a comparative study between normal and pathological tissues. *Journal of Biomedical Optics*, **2018**, 23, 1	3.5	13
591	Delivery and reveal of localization of upconversion luminescent microparticles and quantum dots in the skin in vivo by fractional laser microablation, multimodal imaging, and optical clearing. *Journal of Biomedical Optics*, **2018**, 23, 1-11	3.5	7
590	Measurement of refractive index of hemoglobin in the visible/NIR spectral range. *Journal of Biomedical Optics*, **2018**, 23, 1-9	3.5	36
589	Nanoparticle-enabled experimentally trained wavelet-domain denoising method for optical coherence tomography. *Journal of Biomedical Optics*, **2018**, 23, 1-9	3.5	9
588	Measurement of tissue optical properties in the context of tissue optical clearing. *Journal of Biomedical Optics*, **2018**, 23, 1-31	3.5	50
587	Combination of analytical and experimental optical clearing of rodent specimen for detecting beta-carotene: phantom study. *Journal of Biomedical Optics*, **2018**, 23, 1-7	3.5	6
586	Effect of luminescence transport through adipose tissue on measurement of tissue temperature by using ZnCdS nanothermometers **2018**,		1
585	Sapphire shaped crystals for laser-assisted cryodestruction of biological tissues **2018**,		1
584	Refraction, fluorescence, and Raman spectroscopy of normal and glycated hemoglobin **2018**,		1
583	Molecular modeling of the process of reversible dissolution of the collagen protein under the action of tissue-clearing agents **2018**,		1

582	Terahertz solid immersion microscopy for sub-wavelength-resolution imaging of biological objects and tissues **2018**,		4
581	Wavelet-domain de-noising of OCT images of human brain malignant glioma **2018**,		5
580	Colloidal suspensions in external rotating electric field: experimental studies and prospective applications in physics, material science, and biomedicine **2018**,		2
579	In vitro terahertz spectroscopy of gelatin-embedded human brain tumors: a pilot study **2018**,		6
578	Terahertz spectroscopy of immersion optical clearing agents: DMSO, PG, EG, PEG **2018**,		4
577	Blood refractive index modelling in the visible and near infrared spectral regions. *Journal of Biomedical Photonics and Engineering*, **2018**, 4, 010503	2.4	29
576	Optical and structural properties of biological tissues under diabetes mellitus. *Journal of Biomedical Photonics and Engineering*, **2018**, 4, 020201	2.4	3
575	Optical Clearing as Method to Increase the Depth of Nanoparticles Detection in the Skin with OCT-Visualization. *Izvestiya of Saratov University, New Series: Physics*, **2018**, 18, 275-284	0.5	2
574	Estimation of Glucose Diffusion Coefficient in Human Dura Mater. *Izvestiya of Saratov University, New Series: Physics*, **2018**, 18, 32-45	0.5	
573	Comparison of temperature sensing of the luminescent upconversion and ZnCdS nanoparticles **2018**,		1
572	Blood flow velocity measurements in chicken embryo vascular network via PIV approach **2018**,		2
571	Optical properties of colorectal muscle in visible/NIR range **2018**,		3
570	Optical UV-VIS-NIR spectroscopy of benign, dysplastic and malignant cutaneous lesions ex vivo **2018**,		1
569	Skeletal muscle dispersion (400-1000 nm) and kinetics at optical clearing. *Journal of Biophotonics*, **2018**, 11, e201700094	3.1	23
568	The Effect of Immersion Agents on the Weight and Geometric Parameters of Myocardial Tissue in Vitro. *Biophysics (Russian Federation)*, **2018**, 63, 791-797	0.7	3
567	Investigation of the Diffusion of Methylene Blue through Dentin from a Human Tooth. *Biophysics (Russian Federation)*, **2018**, 63, 981-988	0.7	4
566	Intraoperative diagnosis of malignant brain gliomas using terahertz pulsed spectroscopy and optical coherence tomography. *EPJ Web of Conferences*, **2018**, 195, 10018	0.3	
565	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	9.1	113

564	Biomedical applications of terahertz solid immersion microscopy. *EPJ Web of Conferences*, **2018**, 195, 10017	0.3	1
563	Interaction of terahertz radiation with tissue phantoms: numerical and experimental studies. *EPJ Web of Conferences*, **2018**, 195, 10012	0.3	
562	Effect of a Controlled Release of Epinephrine Hydrochloride from PLGA Microchamber Array: In Vivo Studies. *ACS Applied Materials & Interfaces*, **2018**, 10, 37855-37864	9.5	22
561	Molecular Modeling of the Post-Diffusion Stage of Surface Bio-Tissue Layers Immersion Optical Clearing. *Journal of Surface Investigation*, **2018**, 12, 961-967	0.5	2
560	Effect of laser intensity and exposure time on photothermal therapy with nanoparticles heated by a 793-nm diode laser and tissue optical clearing. *Quantum Electronics*, **2018**, 48, 559-564	1.8	8
559	Reflection-mode continuous-wave 0.15□resolution terahertz solid immersion microscopy of soft biological tissues. *Applied Physics Letters*, **2018**, 113, 111102	3.4	56
558	Gold Nanoparticle-Based Technologies in Photothermal/Photodynamic Treatment: The Challenges and Prospects **2018**, 151-173		2
557	A comparative study of ex vivo skin optical clearing using two-photon microscopy. *Journal of Biophotonics*, **2017**, 10, 1115-1123	3.1	28
556	Temperature sensing of adipose tissue heating with the luminescent upconversion nanoparticles as nanothermometer: in vitro study **2017**,		3
555	Ultralong-range optical coherence tomography-based angiography by akinetic swept source **2017**,		1
554	In Vitro and in Vivo Visualization and Trapping of Fluorescent Magnetic Microcapsules in a Bloodstream. *ACS Applied Materials & Interfaces*, **2017**, 9, 6885-6893	9.5	77
553	Stress plays provoking role in hypertension-related stroke: injuries of blood-brain barrier function **2017**,		1
552	Fluorescent angiography of chicken embryo and photobleaching velocimetry **2017**,		1
551	Laser speckle contrast imaging of cerebral blood flow of newborn mice at optical clearing **2017**,		5
550	Off-axis holographic laser speckle contrast imaging of blood vessels in tissues. *Journal of Biomedical Optics*, **2017**, 22, 91514	3.5	6
549	Morphology alterations of skin and subcutaneous fat at NIR laser irradiation combined with delivery of encapsulated indocyanine green. *Journal of Biomedical Optics*, **2017**, 22, 55008	3.5	6
548	Confocal Raman microscopy supported by optical clearing treatment of the skin□influence on collagen hydration. *Journal Physics D: Applied Physics*, **2017**, 50, 285401	3	34
547	Comparative study of the optical properties of colon mucosa and colon precancerous polyps between 400 and 1000 nm **2017**,		7

546	Laser-induced generation of singlet oxygen and its role in the cerebrovascular physiology. *Progress in Quantum Electronics*, **2017**, 55, 112-128	9.1	14
545	The assesment of effectiveness of plasmonic resonance photothermal therapy in tumor-bearing rats after multiple intravenous administration of gold nanorods **2017**,		1
544	Shape-dependent interaction of gold nanoparticles with cultured cells at laser exposure. *Laser Physics Letters*, **2017**, 14, 055901	1.5	10
543	Studying the mechanism of tissue optical clearing using the method of molecular dynamics **2017**,		2
542	Glucose diffusion in colorectal mucosa-a comparative study between normal and cancer tissues. *Journal of Biomedical Optics*, **2017**, 22, 91506	3.5	28
541	The effects of prolonged oral administration of gold nanoparticles on the morphology of hematopoietic and lymphoid organs **2017**,		1
540	Plasmonic Photothermal Therapy of Transplanted Tumors in Rats at Multiple Intravenous Injection of Gold Nanorods. *BioNanoScience*, **2017**, 7, 216-221	3.4	8
539	Mueller matrix polarimetry for characterizing microstructural variation of nude mouse skin during tissue optical clearing. *Biomedical Optics Express*, **2017**, 8, 3559-3570	3.5	23
538	Application of optical coherence tomography for in vivo monitoring of the meningeal lymphatic vessels during opening of blood-brain barrier: mechanisms of brain clearing. *Journal of Biomedical Optics*, **2017**, 22, 1-9	3.5	32
537	Simple multimodal optical technique for evaluation of free/bound water and dispersion of human liver tissue. *Journal of Biomedical Optics*, **2017**, 22, 1-10	3.5	19
536	Optical clearing of human dura mater by glucose solutions. *Journal of Biomedical Photonics and Engineering*, **2017**, 3, 010309	2.4	11
535	Study of blood microcirculation of pancreas in rats with alloxan diabetes by Laser Speckle Contrast Imaging. *Journal of Biomedical Photonics and Engineering*, **2017**, 3, 020301	2.4	11
534	Study of glycerol diffusion in skin and myocardium ex vivo under the conditions of developing alloxan-induced diabetes. *Journal of Biomedical Photonics and Engineering*, **2017**, 3, 020302	2.4	14
533	OCT study of skin optical clearing with preliminary laser ablation of epidermis. *Journal of Biomedical Photonics and Engineering*, **2017**, 3, 020307	2.4	2
532	Water Content and Scatterers Dispersion Evaluation in Colorectal Tissues. *Journal of Biomedical Photonics and Engineering*, **2017**, 3, 040301	2.4	12
531	Laser speckle imaging and wavelet analysis of cerebral blood flow associated with the opening of the bloodBrain barrier by sound. *Chinese Optics Letters*, **2017**, 15, 090002	2.2	10
530	Study of the epidermis ablation effect on the efficiency of optical clearing of skin in vivo. *Quantum Electronics*, **2017**, 47, 561-566	1.8	3
529	Optical Clearing of Cranial Bone by Multicomponent Immersion Solutions and Cerebral Venous Blood Flow Visualization. *Izvestiya of Saratov University, New Series: Physics*, **2017**, 17, 98-110	0.5	1

528	To the Jubilee of Alexander Vasil□evich Priezzhev. *Izvestiya of Saratov University, New Series: Physics*, **2017**, 17, 121-126	0.5	
527	Special Section Guest Editorial: Advanced Laser Technologies for Biophotonics. *Journal of Biomedical Optics*, **2017**, 22, 091501	3.5	
526	Hypoxia and Neonatal Haemorrhagic Stroke: Experimental Study of Mechanisms. *Advances in Experimental Medicine and Biology*, **2016**, 923, 173-179	3.6	
525	The temperature dependence of refractive index of hemoglobin at the wavelengths 930 and 1100 nm **2016**,		2
524	Study of optical clearing in polarization measurements by Monte Carlo simulations with anisotropic tissue-mimicking models. *Journal of Biomedical Optics*, **2016**, 21, 081209	3.5	9
523	Photodynamic effect of radiation with the wavelength 405 nm on the cells of microorganisms sensitised by metalloporphyrin compounds. *Quantum Electronics*, **2016**, 46, 521-527	1.8	4
522	Collaborative effects of wavefront shaping and optical clearing agent in optical coherence tomography. *Journal of Biomedical Optics*, **2016**, 21, 121510	3.5	5
521	In vivo optical monitoring of transcutaneous delivery of calcium carbonate microcontainers. *Biomedical Optics Express*, **2016**, 7, 2082-7	3.5	30
520	Increasing the penetration depth for ultrafast laser tissue ablation using glycerol based optical clearing **2016**,		2
519	Nanoparticle-free tissue-mimicking phantoms with intrinsic scattering. *Biomedical Optics Express*, **2016**, 7, 2088-94	3.5	19
518	The morphological changes in the internal organs of laboratory animals after prolonged oral administration of gold nanoparticles. *Journal of Innovative Optical Health Sciences*, **2016**, 09, 1642004	1.2	
517	Optical clearing mechanisms characterization in muscle. *Journal of Innovative Optical Health Sciences*, **2016**, 09, 1650035	1.2	22
516	Cancer Cell Damage at Laser-Induced Plasmon-Resonant Photothermal Treatment of Transplanted Liver Tumor. *BioNanoScience*, **2016**, 6, 256-260	3.4	2
515	Special Section Guest Editorial: Antonello De Martino (1954□2014): in memoriam. *Journal of Biomedical Optics*, **2016**, 21, 071101	3.5	3
514	Optical properties of peritoneal biological tissues in the spectral range of 350□2500 nm. *Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)*, **2016**, 120, 1-8	0.7	27
513	Silent Vascular Catastrophes in the Brain in Term Newborns: Strategies for Optical Imaging. *IEEE Journal of Selected Topics in Quantum Electronics*, **2016**, 22, 88-101	3.8	6
512	OCT Study of Optical Clearing of Muscle Tissue in vitro with 40% Glucose Solution. *Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)*, **2016**, 120, 20-27	0.7	3
511	Ex vivo investigation of glycerol diffusion in skin tissue. *Journal of Biomedical Photonics and Engineering*, **2016**, 2, 010303-1-010303-5	2.4	10

510	Tissue Optics and Photonics: Light-Tissue Interaction II. *Journal of Biomedical Photonics and Engineering*, **2016**, 2, 030201	2.4	37
509	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	2.4	18
508	Sensors for Rapid Detection of Environmental Toxicity in Blood of Poisoned People. *Advanced Sciences and Technologies for Security Applications*, **2016**, 413-430	0.6	
507	Estimation of vessel diameter and blood flow dynamics from laser speckle images. *Biomedical Optics Express*, **2016**, 7, 2759-68	3.5	25
506	The Stress and Vascular Catastrophes in Newborn Rats: Mechanisms Preceding and Accompanying the Brain Hemorrhages. *Frontiers in Physiology*, **2016**, 7, 210	4.6	6
505	Towards Effective Photothermal/Photodynamic Treatment Using Plasmonic Gold Nanoparticles. *International Journal of Molecular Sciences*, **2016**, 17,	6.3	94
504	Alterations of morphology of lymphoid organs and peripheral blood indicators under the influence of gold nanoparticles in rats. *Journal of Innovative Optical Health Sciences*, **2016**, 09, 1640004	1.2	2
503	Imaging of subchondral bone by optical coherence tomography upon optical clearing of articular cartilage. *Journal of Biophotonics*, **2016**, 9, 270-5	3.1	26
502	Fractional laser microablation of skin: increasing the efficiency of transcutaneous delivery of particles. *Quantum Electronics*, **2016**, 46, 502-509	1.8	4
501	Laser speckle contrast imaging of cerebral autoregulation in rats at a macro- and microcirculation level. *Quantum Electronics*, **2016**, 46, 496-501	1.8	3
500	Quantification of tissue optical properties: perspectives for precise optical diagnostics, phototherapy and laser surgery. *Journal Physics D: Applied Physics*, **2016**, 49, 501001	3	3
499	Peroxide dental bleaching via laser microchannels and tooth color measurements. *Journal of Biomedical Optics*, **2016**, 21, 125001	3.5	2
498	. *IEEE Journal of Selected Topics in Quantum Electronics*, **2016**, 22, 13-20	3.8	19
497	Polarized light interaction with tissues. *Journal of Biomedical Optics*, **2016**, 21, 71114	3.5	142
496	Micro-PIV quantification of capillary blood flow redistribution caused by laser-assisted vascular occlusion **2016**,		1
495	Enhancement of OCT imaging by blood optical clearing in vessels □A feasibility study. *Photonics & Lasers in Medicine*, **2016**, 5,		4
494	Skin optical clearing potential of disaccharides. *Journal of Biomedical Optics*, **2016**, 21, 081207	3.5	33
493	Simple technique of Fourier-transform holographic microscope with compensation of phase aberration **2016**,		1

492	Optical clearing of skin tissue ex vivo with polyethylene glycol. *Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)*, **2016**, 120, 28-37	0.7	22
491	The modeling of local distribution of the temperature photo-induced by ensemble of nanoparticles **2016**,		1
490	Investigation of photothermolysis therapy of human skin diseases using optical phantoms **2015**,		2
489	Blood typing using microstructured waveguide smart cuvette. *Journal of Biomedical Optics*, **2015**, 20, 040503	3.5	6
488	Optical properties of plasmon-resonant bare and silica-coated nanostars used for cell imaging. *Journal of Biomedical Optics*, **2015**, 20, 76017	3.5	21
487	Multifunctional Au nanoclusters for targeted bioimaging and enhanced photodynamic inactivation of Staphylococcus aureus. *RSC Advances*, **2015**, 5, 61639-61649	3.7	34
486	Enhancement of upconversion deep-tissue imaging using optical clearing **2015**,		1
485	Ex vivo optical measurements of glucose diffusion kinetics in native and diabetic mouse skin. *Journal of Biophotonics*, **2015**, 8, 332-46	3.1	35
484	Analysis of the optical characteristics of adipose tissue in vitro sensitized by indocyanine green and exposed to IR-laser irradiation. *Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)*, **2015**, 118, 494-500	0.7	1
483	Histogram analysis of laser speckle contrast image for cerebral blood flow monitoring. *Frontiers of Optoelectronics*, **2015**, 8, 187-194	2.8	20
482	Changes in the cerebral blood flow in newborn rats assessed by LSCI and DOCT before and after the hemorrhagic stroke **2015**,		1
481	Quantification of laser local hyperthermia induced by gold plasmonic nanoparticles. *Journal of Biomedical Optics*, **2015**, 20, 051030	3.5	19
480	Accessing to arteriovenous blood flow dynamics response using combined laser speckle contrast imaging and skin optical clearing. *Biomedical Optics Express*, **2015**, 6, 1977-89	3.5	45
479	Advanced digital methods for blood flow flux analysis using μPIV approach **2015**,		1
478	Luminescence monitoring of particle delivery into rat skinin vivo **2015**,		1
477	Measurement of diffusion coefficient of propylene glycol in skin tissue **2015**,		1
476	Optical monitoring of stress-related changes in the brain tissues and vessels associated with hemorrhagic stroke in newborn rats. *Biomedical Optics Express*, **2015**, 6, 4088-97	3.5	13
475	Laser Doppler anemometer signal processing for blood flow velocity measurements. *Quantum Electronics*, **2015**, 45, 275-282	1.8	7

474	Use of optical skin phantoms for preclinical evaluation of laser efficiency for skin lesion therapy. *Journal of Biomedical Optics*, **2015**, 20, 85003	3.5	17
473	Review of Indocyanine Green Imaging in Surgery **2015**, 35-53		2
472	Multi-beam laser-induced hydrodynamic shock waves used for delivery of microparticles and liquids in skin. *Lasers in Surgery and Medicine*, **2015**, 47, 723-36	3.6	8
471	Polyethylene glycol diffusion in ex vivo skin tissue **2015**,		1
470	Improved detectability of microcirculatory dynamics by laser speckle flowmetry. *Journal of Biophotonics*, **2015**, 8, 790-4	3.1	21
469	Blood-brain barrier and cerebral blood flow: Age differences in hemorrhagic stroke. *Journal of Innovative Optical Health Sciences*, **2015**, 08, 1550045	1.2	2
468	Hidden stage of intracranial hemorrhage in newborn rats studied with laser speckle contrast imaging and wavelets. *Journal of Innovative Optical Health Sciences*, **2015**, 08, 1550041	1.2	7
467	The effect of laser irradiation on living cells incubated with gold nanoparticles **2015**,		2
466	Experimental studies with selected light sources for NIRS of brain tissue: quantifying tissue chromophore concentration **2015**,		3
465	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 **2015**,		3
464	Measurements of fundamental properties of homogeneous tissue phantoms. *Journal of Biomedical Optics*, **2015**, 20, 045004	3.5	31
463	Adjunctive dental therapy via tooth plaque reduction and gingivitis treatment by blue light-emitting diodes tooth brushing. *Journal of Biomedical Optics*, **2015**, 20, 128004	3.5	15
462	Multi-layered tissue head phantoms for noninvasive optical diagnostics. *Journal of Innovative Optical Health Sciences*, **2015**, 08, 1541005	1.2	31
461	Quantification of glucose and glycerol diffusion in myocardium. *Journal of Innovative Optical Health Sciences*, **2015**, 08, 1541006	1.2	4
460	The morpho-functional assessment of plasmonic photothermal therapy effects on transplanted liver tumor. *Journal of Innovative Optical Health Sciences*, **2015**, 08, 1541004	1.2	9
459	Diffusion characteristics of ethylene glycol in skeletal muscle. *Journal of Biomedical Optics*, **2015**, 20, 051019	3.5	28
458	The dynamics of some human skin biophysical parameters in the process of optical clearing after hyperosmotic solutions topical application. *Vestnik Dermatologii I Venerologii*, **2015**, 91, 60-68	0.4	4
457	Tissue Optics: Light Scattering Methods and Instruments for Medical Diagnosis **2015**,		148

456	Quantitative Assessment of Hyaline Cartilage Elasticity During Optical Clearing Using Optical Coherence Elastography. *Sovremennye Tehnologii V Medicine*, **2015**, 7, 44-51	1.2	5
455	Dynamic analysis of optical cell trapping in the ray optics regime. *Computer Optics*, **2015**, 39, 694-701	1.4	2
454	Optical clearing of biological tissues: prospects of application in medical diagnostics and phototherapy. *Journal of Biomedical Photonics and Engineering*, **2015**, 1, 22-58	2.4	60
453	Tissue Optics and Photonics: Biological Tissue Structures. *Journal of Biomedical Photonics and Engineering*, **2015**, 1, 3-21	2.4	47
452	Optical Tissue Clearing to Enhance Imaging Performance for OCT **2015**, 1455-1487		1
451	Hybrid application of complex wavefront shaping optical coherence tomography and optical clearing agents for the penetration depth enhancement **2015**,		1
450	. *IEEE Journal of Selected Topics in Quantum Electronics*, **2014**, 20, 4-7	3.8	3
449	. *IEEE Journal of Selected Topics in Quantum Electronics*, **2014**, 20, 133-140	3.8	2
448	Titania nanofibers in gypsum composites: an antibacterial and cytotoxicology study. *Journal of Materials Chemistry B*, **2014**, 2, 1307-1316	7.3	15
447	In-vitro terahertz spectroscopy of rat skin under the action of dehydrating agents **2014**,		3
446	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	119
445	Comparative study of the physical, chemical, and multimodal approaches to enhancing nanoparticle transport in the skin with model dermatitis. *Nanotechnologies in Russia*, **2014**, 9, 559-570	0.6	1
444	THz monitoring of the dehydration of biological tissues affected by hyperosmotic agents. *Physics of Wave Phenomena*, **2014**, 22, 169-176	1.2	25
443	Optical properties of human colon tissues in the 350 2500 nm spectral range. *Quantum Electronics* , **2014**, 44, 779-784	1.8	49
442	Multiresolution analysis of pathological changes in cerebral venous dynamics in newborn mice with intracranial hemorrhage: adrenorelated vasorelaxation. *Physiological Measurement*, **2014**, 35, 1983-99	2.9	15
441	Dermal Component Based Optical Modeling of Skin Translucency: Impact on Skin Color **2014**, 25-61		3
440	Optical Properties of Tissue **2014**, 23-122		
439	Light Tissue Interactions **2014**, 123-168		1

438	Optical coherence tomography monitoring of enhanced skin optical clearing in rats in vivo. *Journal of Biomedical Optics*, **2014**, 19, 21109	3.5	31
437	WAVELET-BASED ANALYSIS OF CEREBROVASCULAR DYNAMICS IN NEWBORN RATS WITH INTRACRANIAL HEMORRHAGES. *Journal of Innovative Optical Health Sciences*, **2014**, 07, 1350055	1.2	6
436	Using gold nanorods labelled with antibodies under the photothermal action of NIR laser radiation on Staphylococcus aureus. *Quantum Electronics*, **2014**, 44, 683-688	1.8	11
435	In vitro terahertz monitoring of muscle tissue dehydration under the action of hyperosmotic agents. *Quantum Electronics*, **2014**, 44, 633-640	1.8	23
434	Monitoring of interaction of low-frequency electric field with biological tissues upon optical clearing with optical coherence tomography. *Journal of Biomedical Optics*, **2014**, 19, 086002	3.5	5
433	Monitoring of temperature-mediated adipose tissue phase transitions by refractive-index measurements **2014**,		3
432	Gold nanostructures for OCT imaging of capillary flow **2014**,		2
431	Terahertz image processing for the skin cancer diagnostic **2014**,		2
430	Iron oxide nanoparticles in different modifications for antimicrobial phototherapy **2014**,		2
429	Optical clearing at cellular level. *Journal of Biomedical Optics*, **2014**, 19, 71409	3.5	11
428	Study of diffusion of indocyanine green as a photodynamic dye into skin using backscattering spectroscopy. *Quantum Electronics*, **2014**, 44, 689-695	1.8	7
427	Enhanced photoinactivation of Staphylococcus aureus with nanocomposites containing plasmonic particles and hematoporphyrin. *Journal of Biophotonics*, **2013**, 6, 338-51	3.1	41
426	Optical digital microscopy for cyto- and hematological studies in vitro. *Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)*, **2013**, 115, 212-217	0.7	3
425	Recent progress in tissue optical clearing. *Laser and Photonics Reviews*, **2013**, 7, 732-757	8.3	352
424	Dynamics of the brain: Mathematical models and non-invasive experimental studies. *European Physical Journal: Special Topics*, **2013**, 222, 2607-2622	2.3	6
423	Comparison of the efficiency of titanium(IV) and iron(III) oxide nanoparticles as mediators in suppression of bacterial growth by radiation of a blue (405 nm) light-emitting diode. *Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)*, **2013**, 115, 161-165	0.7	2
422	Photoinduced cell morphology alterations quantified within adipose tissues by spectral optical coherence tomography. *Journal of Biomedical Optics*, **2013**, 18, 111407	3.5	10
421	High-resolution deep-tissue optical imaging using anti-Stokes phosphors **2013**,		4

420	THE EXPERIMENTAL STUDY OF STRESS-RELATED PATHOLOGICAL CHANGES IN CEREBRAL VENOUS BLOOD FLOW IN NEWBORN RATS ASSESSED BY DOCT. *Journal of Innovative Optical Health Sciences*, **2013**, 06, 1350023	1.2	8
419	Modeling of optimal conditions for oxyhemoglobin photodissociation in laser-irradiated biotissue. *Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)*, **2013**, 115, 201-206	0.7	2
418	Optical detection of pores in adipocyte membrane. *Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)*, **2013**, 115, 207-211	0.7	1
417	Determination of glucose concentration in biological liquids using photonic crystal waveguides. *Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)*, **2013**, 115, 228-232	0.7	1
416	Towards the nature of biological zero in the dynamic light scattering diagnostic modalities. *Doklady Physics*, **2013**, 58, 323-326	0.8	12
415	Cancer laser therapy using gold nanoparticles **2013**, 659-703		4
414	The characteristic time of glucose diffusion measured for muscle tissue at optical clearing. *Laser Physics*, **2013**, 23, 075606	1.2	28
413	PHOTONIC CRYSTAL WAVEGUIDE BIOSENSOR. *Journal of Innovative Optical Health Sciences*, **2013**, 06, 1350008	1.2	7
412	Plasmon-resonant gold nanoparticles with variable morphology as optical labels and drug carriers for cytological research **2013**,		3
411	Optical Coherence Tomography: Light Scattering and Imaging Enhancement **2013**, 665-742		6
410	Bioflow Measuring: Laser Doppler and Speckle Techniques **2013**, 487-563		3
409	Diffusing Wave Spectroscopy: Application for Blood Diagnostics **2013**, 149-166		1
408	Laser Speckle Imaging of Cerebral Blood Flow **2013**, 167-211		3
407	Scaling of photothermal effects accounting for localization of CW and pulse laser radiation within plasmonic nanoparticles **2013**,		1
406	Features of the kinetics of the immersion clarification of biological tissue. *Journal of Optical Technology (A Translation of Opticheskii Zhurnal)*, **2013**, 80, 119	0.9	
405	Optical clearing in photoacoustic flow cytometry. *Biomedical Optics Express*, **2013**, 4, 3030-41	3.5	50
404	Visible and near-infrared spectroscopy for distinguishing malignant tumor tissue from benign tumor and normal breast tissues in vitro. *Journal of Biomedical Optics*, **2013**, 18, 077003	3.5	20
403	Transcutaneous delivery of micro- and nanoparticles with laser microporation. *Journal of Biomedical Optics*, **2013**, 18, 111406	3.5	26

402	The response of tissue to laser light **2013**, 47-109		16
401	Blood optical clearing studied by optical coherence tomography. *Journal of Biomedical Optics*, **2013**, 18, 26014	3.5	13
400	The assessment of pathological changes in cerebral blood flow in hypertensive rats with stress-induced intracranial hemorrhage using Doppler OCT: Particularities of arterial and venous alterations/Die Beurteilung von pathologischen Ver□derungen der Hirndurchblutung bei hypertensiven Ratten mit Stress-induzierten intrakraniellen Blutungen mittels Doppler-OCT:		2
399	Medical use of lasers and photonics in Russia □Therapeutic applications. *Photonics & Lasers in Medicine*, **2013**, 2,		1
398	INTRODUCTION: SPECIAL ISSUE ON ADVANCES IN BIOPHOTONICS AND BIOMEDICAL OPTICS □ PART II. *Journal of Innovative Optical Health Sciences*, **2013**, 06, 1302002	1.2	
397	OPTICAL COHERENCE TOMOGRAPHY OF ADIPOSE TISSUE AT PHOTODYNAMIC/PHOTOTHERMAL TREATMENT IN VITRO. *Journal of Innovative Optical Health Sciences*, **2013**, 06, 1350010	1.2	6
396	OPTICAL MEASUREMENTS OF RAT MUSCLE SAMPLES UNDER TREATMENT WITH ETHYLENE GLYCOL AND GLUCOSE. *Journal of Innovative Optical Health Sciences*, **2013**, 06, 1350012	1.2	13
395	INTRODUCTION: SPECIAL ISSUE ON ADVANCES IN BIOPHOTONICS AND BIOMEDICAL OPTICS □ PART I. *Journal of Innovative Optical Health Sciences*, **2013**, 06, 1302001	1.2	
394	Sensing Glucose and Other Metabolites in Skin **2013**, 835		
393	. *IEEE Journal of Selected Topics in Quantum Electronics*, **2012**, 18, 1244-1259	3.8	64
392	Effect of bacterial lectin on acceleration of fat cell lipolysis at in vitro diode laser treatment using encapsulated ICG **2012**,		2
391	Laser speckle-imaging of blood microcirculation in the brain cortex of laboratory rats in stress. *Quantum Electronics*, **2012**, 42, 489-494	1.8	6
390	Enhanced optical clearing of skin in vivo and optical coherence tomography in-depth imaging. *Journal of Biomedical Optics*, **2012**, 17, 066022	3.5	63
389	Photonic crystal fibers for food quality analysis **2012**,		14
388	Photocatalytic activity of TiO2 nanoparticles: effect of thermal annealing under various gaseous atmospheres. *Nanotechnology*, **2012**, 23, 475711	3.4	31
387	Thermal energy transfer by plasmon-resonant composite nanoparticles at pulse laser irradiation. *Applied Optics*, **2012**, 51, C88-94	1.7	10
386	Novel thermal effect at nanoshell heating by pulsed laser irradiation: hoop-shaped hot zone formation. *Journal of Biophotonics*, **2012**, 5, 734-44	3.1	14
385	Kinetics of changes in the coefficient of transmission of the adipose tissue in vitro as a result of photodynamic action. *Biophysics (Russian Federation)*, **2012**, 57, 94-97	0.7	9

384	Use of fractional laser microablation and ultrasound to facilitate the delivery of gold nanoparticles into skin in vivo. *Quantum Electronics*, **2012**, 42, 471-477	1.8	13
383	Laser-induced thermal dynamics and temperature localization phenomenon in tissues and cells doped with nanoshells **2012**,		2
382	A review of indocyanine green fluorescent imaging in surgery. *International Journal of Biomedical Imaging*, **2012**, 2012, 940585	5.2	664
381	Fat tissue histological study at indocyanine green-mediated photothermal/photodynamic treatment of the skin in vivo. *Journal of Biomedical Optics*, **2012**, 17, 058002	3.5	21
380	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	3.5	39
379	Laser technologies in biophotonics. *Quantum Electronics*, **2012**, 42, 379-379	1.8	3
378	Two-photon-excited autofluorescence and second-harmonic generation microscopy for the visualization of penetration of TiO 2 and ZnO nanoparticles into human tooth tissue ex vivo **2012**,		1
377	Introduction to the BIOMED 2012 Feature Issue. *Biomedical Optics Express*, **2012**, 3, 2771	3.5	
376	Visualisation of distribution of gold nanoparticles in liver tissues ex vivo and in vitro using the method of optical coherence tomography. *Quantum Electronics*, **2012**, 42, 478-483	1.8	11
375	The development of skin immersion clearing method for increasing of laser exposure efficiency on subcutaneous objects **2012**,		3
374	Front Matter: Volume 8337 **2012**,		2
373	Time variation of adipose tissue refractive index under photodynamic treatment: in vitro study using OCT **2012**,		1
372	Dictionary of Biomedical Optics and Biophotonics **2012**,		3
371	Dictionary of Biomedical Optics and Biophotonics **2012**,		2
370	The refractive index of human hemoglobin in the visible range. *Physics in Medicine and Biology*, **2011** , 56, 4013-21	3.8	118
369	Specific features of diffuse reflection of human face skin for laser and non-laser sources of visible and near-IR light. *Quantum Electronics*, **2011**, 41, 329-334	1.8	2
368	Finger tissue model and blood perfused skin tissue phantom **2011**,		17
367	OPTICAL PROPERTIES OF SKIN, SUBCUTANEOUS, AND MUSCLE TISSUES: A REVIEW. *Journal of Innovative Optical Health Sciences*, **2011**, 04, 9-38	1.2	377

366	Combined near infrared photothermolysis and photodynamic therapy by association of gold nanoparticles and an organic dye **2011**,		4
365	Phototoxic effect of conjugates of plasmon-resonance nanoparticles with indocyanine green dye onStaphylococcus aureusinduced by IR laser radiation. *Quantum Electronics*, **2011**, 41, 354-359	1.8	26
364	Speckle-correlation analysis of the microcapillary blood circulation in nail bed. *Quantum Electronics*, **2011**, 41, 324-328	1.8	8
363	Fractional laser microablation of skin aimed at enhancing its permeability for nanoparticles. *Quantum Electronics*, **2011**, 41, 396-401	1.8	17
362	New closed-form approximation for skin chromophore mapping. *Journal of Biomedical Optics*, **2011**, 16, 046012	3.5	20
361	Quantitative analysis of dehydration in porcine skin for assessing mechanism of optical clearing. *Journal of Biomedical Optics*, **2011**, 16, 095002	3.5	58
360	The morphology of apoptosis and necrosis of fat cells after photodynamic treatment at a constant temperature in vitro **2011**,		4
359	Photonic crystal fibres in biomedical investigations. *Quantum Electronics*, **2011**, 41, 284-301	1.8	32
358	Laser Diffraction by the Erythrocytes and Deformability Measurements **2011**, 133-154		7
357	Novel Concepts and Requirements in Cytometry **2011**, 25-33		
356	Perspectives in Cytometry **2011**, 1-23		
355	Optical Tweezers and Cytometry **2011**, 363-386		1
354	Optical Imaging of Cells with Gold Nanoparticle Clusters as Light Scattering Contrast Agents: A Finite-Difference Time-Domain Approach to the Modeling of Flow Cytometry Configurations **2011**, 35-62		2
353	An Integrative Approach for Immune Monitoring of Human Health and Disease by Advanced Flow Cytometry Methods **2011**, 333-362		5
352	Comparison of Immunophenotyping and Rare Cell Detection by Slide-Based Imaging Cytometry and Flow Cytometry **2011**, 239-271		
351	Characterization of Red Blood Cells' Rheological and Physiological State Using Optical Flicker Spectroscopy **2011**, 155-210		
350	Advances in Fluorescence-Based In vivo Flow Cytometry for Cancer Applications **2011**, 463-500		1
349	Microfluidic Flow Cytometry: Advancements toward Compact, Integrated Systems **2011**, 273-310		2

348	In vivo Photothermal and Photoacoustic Flow Cytometry **2011**, 501-571		1
347	In vivo Image Flow Cytometry **2011**, 387-431		3
346	Optical Instrumentation for the Measurement of Blood Perfusion, Concentration, and Oxygenation in Living Microcirculation **2011**, 573-604		1
345	Modifications of Optical Properties of Blood during Photodynamic Reactions In vitro and In vivo **2011**, 627-698		
344	Instrumentation for In vivo Flow Cytometry a Sickle Cell Anemia Case Study **2011**, 433-461		2
343	Blood Flow Cytometry and Cell Aggregation Study with Laser Speckle **2011**, 605-626		1
342	Label-Free Cell Classification with Diffraction Imaging Flow Cytometer **2011**, 311-331		1
341	Optics of White Blood Cells: Optical Models, Simulations, and Experiments **2011**, 63-93		3
340	Advances in the FDTD design and modeling of nano- and bio-photonics applications. *Photonics and Nanostructures - Fundamentals and Applications*, **2011**, 9, 315-327	2.6	3
339	Photoaction upon adipose tissue cells in vitro. *Cell and Tissue Biology*, **2011**, 5, 520-529	0.4	6
338	Optical image analysis of fat cells for indocyanine green mediated near-infrared laser treatment. *Laser Physics Letters*, **2011**, n/a-n/a	1.5	4
337	In vivo flow cytometry: a horizon of opportunities. *Cytometry Part A: the Journal of the International Society for Analytical Cytology*, **2011**, 79, 737-45	4.6	94
336	On the problem of local tissue hyperthermia control: multiscale modelling of pulsed laser radiation action on a medium with embedded nanoparticles. *Quantum Electronics*, **2011**, 40, 1081-1088	1.8	13
335	Digital Holographic Microscopy for Quantitative Live Cell Imaging and Cytometry **2011**, 211-237		4
334	Determination of blood types using a chirped photonic crystal fiber **2011**,		4
333	PHOTOTHERAPY OF GINGIVITIS: PILOT CLINICAL STUDY. *Journal of Innovative Optical Health Sciences*, **2011**, 04, 437-446	1.2	5
332	Study of optical clearing of blood by immersion method **2011**,		1
331	The use of hollow-core photonic crystal fibres as biological sensors. *Quantum Electronics*, **2011**, 41, 302-308		13

330	Cortexin diffusion in human eye sclera. *Quantum Electronics*, **2011**, 41, 407-413	1.8	7
329	Optical Properties of Flowing Blood Cells **2011**, 95-132		3
328	Biomedical optics and spectroscopy. *Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)*, **2010**, 109, 151-153	0.7	2
327	Study of water diffusion in human dentin by optical coherent tomography. *Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)*, **2010**, 109, 162-168	0.7	5
326	Optical properties of human sclera in spectral range 370–2500 nm. *Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)*, **2010**, 109, 197-204	0.7	30
325	Absorption spectra of photosensitized human fat tissue. *Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)*, **2010**, 109, 217-224	0.7	1
324	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	0.7	23
323	Noninvasive functional imaging of tissue abnormalities using optical coherence tomography **2010**,		1
322	Assessment of permeation of lipoproteins in human carotid tissue **2010**,		1
321	ASSESSMENT OF TISSUE OPTICAL CLEARING AS A FUNCTION OF GLUCOSE CONCENTRATION USING OPTICAL COHERENCE TOMOGRAPHY. *Journal of Innovative Optical Health Sciences*, **2010**, 3, 169-176	1.2	28
320	Photodynamic/photocatalytic effects on microorganisms processed by nanodyes **2010**,		3
319	Tissue optical immersion clearing. *Expert Review of Medical Devices*, **2010**, 7, 825-42	3.5	146
318	Rat muscle opacity decrease due to the osmosis of a simple mixture. *Journal of Biomedical Optics*, **2010**, 15, 055004	3.5	19
317	Inhomogeneity of photo-induced fat cell lipolysis **2010**,		7
316	Dispersion dependence of the optical anisotropy and the degree of depolarization of fibrous tissues. *Journal of Optical Technology (A Translation of Opticheskii Zhurnal)*, **2010**, 77, 577	0.9	4
315	Fat tissue staining and photodynamic/photothermal effects **2010**,		5
314	Monitoring of glucose permeability in monkey skin in vivo using Optical Coherence Tomography. *Journal of Biophotonics*, **2010**, 3, 25-33	3.1	42
313	In vivo skin optical clearing by glycerol solutions: mechanism. *Journal of Biophotonics*, **2010**, 3, 44-52	3.1	96

312	OCT monitoring of diffusion of water and glycerol through tooth dentine in different geometry of wetting **2010**,		3
311	ALTERATIONS IN AUTOFLUORESCENCE SIGNAL FROM RAT SKIN EX VIVO UNDER OPTICAL IMMERSION CLEARING. *Journal of Innovative Optical Health Sciences*, **2010**, 03, 147-152	1.2	6
310	Light□Tissue Interaction at Optical Clearing **2010**, 113-164		8
309	TiO2 nanoparticle enhanced photodynamic inhibition of pathogens. *Laser Physics Letters*, **2010**, 7, 607-612	1.5	36
308	Enhancement of skin optical clearing efficacy using photo-irradiation. *Lasers in Surgery and Medicine* , **2010**, 42, 132-40	3.6	29
307	Terahertz Tissue Spectroscopy and Imaging. *Series in Medical Physics and Biomedical Engineering*, **2010**, 519-617		9
306	Cancer Laser Thermotherapy Mediated by Plasmonic Nanoparticles. *Series in Medical Physics and Biomedical Engineering*, **2010**, 763-797		6
305	Skin spectrophotometry under the islet photothermal effect on the epidermal permeability **2010**, 104, 140		
304	Optical Spectroscopy of Biological Materials **2009**, 555-626		
303	Principles of Light-Skin Interactions **2009**, 1-44		4
302	Destructive fat tissue engineering using photodynamic and selective photothermal effects **2009**,		7
301	Photo analysis methods for fat cell destructive engineering **2009**,		1
300	COMPARATIVE TREATMENT OF ACNE VULGARIS USING PALOMAR LUX APPLIQU□TECHNIQUE AND DIRECT INTRALESIONAL INJECTION. *Journal of Innovative Optical Health Sciences*, **2009**, 02, 279-287	1.2	
299	Physics Behind Light-Based Systems: Skin and Hair Follicle Interactions with Light **2009**, 49-123		3
298	Combined laser and glycerol enhancing skin optical clearing **2009**,		5
297	Controling the scattering of intralipid by using optical clearing agents. *Physics in Medicine and Biology*, **2009**, 54, 6917-30	3.8	52
296	Optical clearing of human eye sclera **2009**,		4
295	Circulation and distribution of gold nanoparticles and induced alterations of tissue morphology at intravenous particle delivery. *Journal of Biophotonics*, **2009**, 2, 292-302	3.1	121

294	Flow cytometry with gold nanoparticles and their clusters as scattering contrast agents: FDTD simulation of light-cell interaction. *Journal of Biophotonics*, **2009**, 2, 505-20	3.1	30
293	In vivo fiber-based multicolor photoacoustic detection and photothermal purging of metastasis in sentinel lymph nodes targeted by nanoparticles. *Journal of Biophotonics*, **2009**, 2, 528-39	3.1	92
292	Measurements of the diffusion coefficient of nanoparticles by selective plane illumination microscopy. *Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)*, **2009**, 107, 846-852	0.7	3
291	Effect of storage conditions of skin samples on their optical characteristics. *Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)*, **2009**, 107, 934-938	0.7	5
290	Optical characterization and composition of abdominal wall muscle from rat. *Optics and Lasers in Engineering*, **2009**, 47, 667-672	4.6	21
289	Low-intensity LED (625 and 405 nm) and laser (805 nm) killing of Propionibacterium acnes and Staphylococcus epidermidis **2009**,		3
288	Mathematical model for describing of kinetics of tissue optical clearing. *Optical Memory and Neural Networks (Information Optics)*, **2009**, 18, 129-133	0.7	4
287	Microspectral analysis of dentine with femtosecond laser induced plasma. *Laser Physics*, **2009**, 19, 1288-1293	1.2	4
286	Skin optical clearing for improvement of laser tattoo removal. *Laser Physics*, **2009**, 19, 1312-1322	1.2	19
285	Laser-induced tissue hyperthermia mediated by gold nanoparticles: toward cancer phototherapy. *Journal of Biomedical Optics*, **2009**, 14, 021016	3.5	145
284	OCT monitoring of diffusion of clearing agents within tooth dentin **2009**,		1
283	Enhanced OCT imaging of embryonic tissue with optical clearing **2009**,		1
282	Gold nanoshell photomodification under a´single-nanosecond laser pulse accompanied by color-shifting and bubble formation phenomena. *Nanotechnology*, **2008**, 19, 015701	3.4	58
281	Dynamic of gold nanoparticles labeling studied on the basis of OCT and backscattering spectra of tissues and phantoms **2008**,		1
280	Laser photothermolysis of biological tissues by using plasmon-resonance particles. *Quantum Electronics*, **2008**, 38, 536-542	1.8	8
279	Skin spectrophotometry under the islet photothermal effect on the epidermal permeability. *Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)*, **2008**, 104, 140-146	0.7	
278	Measurements of absorbance of hemoglobin solutions incubated with glucose **2008**,		1
277	Dentinal permeation modeling **2008**,		1

276	Terahertz time-domain spectroscopy of biological tissues. *Quantum Electronics*, **2008**, 38, 647-654	1.8	83
275	Differential permeability rate and percent clearing of glucose in different regions in rabbit sclera. *Journal of Biomedical Optics*, **2008**, 13, 021110	3.5	44
274	Optimization of laser heating with the treatment of spontaneous tumors of domestic animals by use of thermography **2008**,		1
273	Optical clearing of human skin: comparative study of permeability and dehydration of intact and photothermally perforated skin. *Journal of Biomedical Optics*, **2008**, 13, 021102	3.5	55
272	Tooth study by terahertz time-domain spectroscopy **2008**,		2
271	Functional imaging and assessment of the glucose diffusion rate in epithelial tissues in optical coherence tomography. *Quantum Electronics*, **2008**, 38, 551-556	1.8	38
270	Dynamic ultramicroscopy of laser-induced flows in colloidal solutions of plasmon-resonance particles. *Quantum Electronics*, **2008**, 38, 530-535	1.8	4
269	Possibility of increasing the efficiency of laser-induced tattoo removal by optical skin clearing. *Quantum Electronics*, **2008**, 38, 580-587	1.8	11
268	Monitoring of Glucose Diffusion in Epithelial Tissues with Optical Coherence Tomography. *Series in Medical Physics and Biomedical Engineering*, **2008**, 623-656		
267	FDTD simulation of optical phase contrast microscope imaging **2008**,		2
266	Nonlinear diffusivity of analytes in tissues **2008**,		1
265	Simulation and modeling of optical phase contrast microscope cellular nanobioimaging **2008**,		2
264	Front Matter: Volume 6991 **2008**,		2
263	In vitro LED and laser light photoinactivation of Propionibacterium acnes **2008**,		1
262	Optical phase contrast microscope imaging: a FDTD modeling approach **2008**,		2
261	Biophotonics. *Advances in Optical Technologies*, **2008**, 2008, 1-2		1
260	A New 3D Simulation Method for the Construction of Optical Phase Contrast Images of Gold Nanoparticle Clusters in Biological Cells. *Advances in Optical Technologies*, **2008**, 2008, 1-9		6
259	Optical Clearing of Cranial Bone. *Advances in Optical Technologies*, **2008**, 2008, 1-8		56

258	Monitoring of blood proteins glycation by refractive index and spectral measurements. *Laser Physics Letters*, **2008**, 5, 460-464	1.5	47
257	Enhanced OCT imaging of embryonic tissue with optical clearing. *Laser Physics Letters*, **2008**, 5, 476-479	1.5	66
256	In vivo multispectral, multiparameter, photoacoustic lymph flow cytometry with natural cell focusing, label-free detection and multicolor nanoparticle probes. *Cytometry Part A: the Journal of the International Society for Analytical Cytology*, **2008**, 73, 884-94	4.6	95
255	Concentration effect on the diffusion of glucose in ocular tissues. *Optics and Lasers in Engineering*, **2008**, 46, 911-914	4.6	14
254	Measurement of Retinalamin diffusion coefficient in human sclera by optical spectroscopy. *Optics and Lasers in Engineering*, **2008**, 46, 915-920	4.6	6
253	Effect of ethanol on the transport of methylene blue through stratum corneum. *Medical Laser Application: International Journal for Laser Treatment and Research*, **2008**, 23, 31-38		12
252	Visualisation of the distributions of melanin and indocyanine green in biological tissues. *Quantum Electronics*, **2008**, 38, 263-268	1.8	3
251	Measurement of Glucose Diffusion Coefficients in Human Tissues. *Series in Medical Physics and Biomedical Engineering*, **2008**, 587-621		3
250	A Finite-Difference Time-Domain Model of Optical Phase Contrast Microscope Imaging **2008**, 243-257		
249	Optical Tissue Clearing to Enhance Imaging Performance for OCT **2008**, 855-886		4
248	Glucose-Induced Optical Clearing Effects in Tissues and Blood. *Series in Medical Physics and Biomedical Engineering*, **2008**, 657-692		2
247	Endoscopic laser Doppler flowmetry in the experiment and in the bleeding gastric and duodenal ulcer clinic **2007**,		1
246	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**, 71, 191-206	4.6	28
245	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		55
244	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		52
243	A Clear Vision for Laser Diagnostics (Review). *IEEE Journal of Selected Topics in Quantum Electronics*, **2007**, 13, 1621-1628	3.8	57
242	Metabolic and hormonal blood flow modeling in patients with coronary heart disease: In vitro and clinical study. *Medical Laser Application: International Journal for Laser Treatment and Research*, **2007**, 22, 173-184		1
241	Optical monitoring of microlymphatic disturbances during experimental lymphedema. *Lymphatic Research and Biology*, **2007**, 5, 11-27	2.3	14

240	Investigation of glucose-hemoglobin interaction by optical coherence tomography **2007**,	1
239	Skin optical clearing for improvement of laser tattoo removal **2007**, 6734, 164	
238	Modification of terahertz pulsed spectrometer to study biological samples **2007**, 6535, 481	6
237	Application of gold nanoparticles to x-ray diagnostics and photothermal therapy of cancer **2007**, 6536, 86	2
236	Handling of nanoparticles with light pressure forces **2007**, 6536, 79	
235	Concentration dependence of the optical clearing effect created in muscle immersed in glycerol and ethylene glycol **2007**,	1
234	Optical clearing of human eye sclera under the action of glucose solution **2007**, 6535, 365	1
233	Advances in intravital microscopy for monitoring cell flow dynamics in vivo **2007**,	3
232	Near-infrared laser photothermal therapy and photodynamic inactivation of cells by using gold nanoparticles and dyes **2007**,	3
231	In vivo flow cytometry and time-resolved near-IR angiography and lymphography **2007**, 6535, 196	
230	Nondestructive quantification of analyte diffusion in cornea and sclera using optical coherence tomography. *Investigative Ophthalmology and Visual Science*, **2007**, 48, 2726-33	71
229	The effect of LED-light action on microbial colony forming ability of several species of staphylococcus **2007**,	1
228	Monte Carlo study of skin optical clearing to enhance light penetration in the tissue: implications for photodynamic therapy of acne vulgaris **2007**,	4
227	Improvements of laser biomedical spectroscopy and imaging at tissue and blood optical clearing **2007**,	2
226	Monte Carlo modeling of eye iris color **2007**,	2
225	Monte Carlo study of skin optical clearing to enhance light penetration in the tissue **2007**,	1
224	Investigation of skin water loss and glycerol delivery through stratum corneum **2007**,	3
223	In vitro study of indocyanine green solution interaction with skin **2007**,	3

222	Depth-resolved monitoring of analytes diffusion in ocular tissues **2007**,		2
221	Random media characterization using the analysis of diffusing light data on the basis of an effective medium model. *Journal of the Optical Society of America A: Optics and Image Science, and Vision*, **2007**, 24, 711-23	1.8	14
220	In vivo dynamic light scattering imaging of blood coagulation. *Journal of Biomedical Optics*, **2007**, 12, 052002	3.5	20
219	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	3.5	120
218	Tissue Optics **2007**,		263
217	Advances in small animal mesentery models for in vivo flow cytometry, dynamic microscopy, and drug screening. *World Journal of Gastroenterology*, **2007**, 13, 192-218	5.6	42
216	In vivo photothermal flow cytometry: imaging and detection of individual cells in blood and lymph flow. *Journal of Cellular Biochemistry*, **2006**, 97, 916-32	4.7	51
215	Light scattering effects of gold nanoparticles in cells: FDTD modeling. *Laser Physics Letters*, **2006**, 3, 594-598		38
214	Optical clearing of skin using flash lamp-induced enhancement of epidermal permeability. *Lasers in Surgery and Medicine*, **2006**, 38, 824-36	3.6	62
213	FINITE-DIFFERENCE TIME-DOMAIN MODELING OF LIGHT SCATTERING FROM BIOLOGICAL CELLS CONTAINING GOLD NANOPARTICLES **2006**, 97-119		
212	Cell membrane and gold nanoparticles effects on optical immersion experiments with noncancerous and cancerous cells: finite-difference time-domain modeling. *Journal of Biomedical Optics*, **2006**, 11, 064037	3.5	12
211	Mechanisms of in vivo optical clearing of human skin at application of glycerol and lattice-like photothermal damage of stratum corneum **2006**,		2
210	Optimization of gold nanostructers for laser killing of cancer cells **2006**,		1
209	Optical clearing of the eye sclerain vivocaused by glucose. *Quantum Electronics*, **2006**, 36, 1119-1124	1.8	36
208	Comparable application of the OCT and Abbe refractometers for measurements of glycated hemoglobin portion in blood **2006**,		2
207	Estimate of the melanin content in human hairs by the inverse Monte-Carlo method using a system for digital image analysis. *Quantum Electronics*, **2006**, 36, 1111-1118	1.8	8
206	Optical properties of human cranial bone in the spectral range from 800 to 2000 nm **2006**,		38
205	In vivo high-speed imaging of individual cells in fast blood flow. *Journal of Biomedical Optics*, **2006**, 11, 054034	3.5	32

204	Optical Polarization in Biomedical Applications **2006**,		115
203	Measurements of refractive index of hemoglobin mixed with glucose at physiological concentrations **2006**,		2
202	Depth-resolved monitoring of glucose diffusion in tissues by using optical coherence tomography. *Optics Letters*, **2006**, 31, 2314-6	3	57
201	In vivo photoacoustic flow cytometry for monitoring of circulating single cancer cells and contrast agents. *Optics Letters*, **2006**, 31, 3623-5	3	172
200	Laser measurements for biomedical applications **2006**, 6254, 411		
199	Estimation of melanin content in iris of human eye: Prognosis for glaucoma diagnostics **2006**,		3
198	Optical clearing of skin tissue produced by application of glucose solution: in vivo study **2006**,		2
197	Optical clearing of human cranial bone by administration of immersion agents **2006**,		3
196	Fluctuation of probe beam in thermolens schematics as potential indicator of cell metabolism, apoptosis, necrosis and laser impact **2006**,		3
195	Experimental study of NIR transmittance of the human skull **2006**,		8
194	Enhanced optical clearing of human skin at topical application of immersion agents to stratum corneum pretreated by a lattice-like photothermal ablation **2006**,		1
193	Optical anisotropy of a biological tissue under conditions of immersion clearing and without them. *Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)*, **2006**, 101, 46-53	0.7	5
192	Optical amplification of photothermal therapy with gold nanoparticles and nanoclusters. *Nanotechnology*, **2006**, 17, 5167-5179	3.4	314
191	Methylene blue mediated laser therapy of maxillary sinusitis. *Laser Physics*, **2006**, 16, 1128-1133	1.2	11
190	DENTAL AND ORAL TISSUE OPTICS. *Series on Biomaterials and Bioengineering*, **2006**, 245-300		
189	Tissue Structure and Optical Models **2006**, 7-28		3
188	Photothermal image flow cytometry in vivo. *Optics Letters*, **2005**, 30, 628-30	3	61
187	Optical properties of human skin, subcutaneous and mucous tissues in the wavelength range from 400 to 2000 nm. *Journal Physics D: Applied Physics*, **2005**, 38, 2543-2555	3	1009

186	Integrated photothermal flow cytometry in vivo. *Journal of Biomedical Optics*, **2005**, 10, 051502	3.5	31
185	Optical clearing of tissues and blood using the immersion method. *Journal Physics D: Applied Physics* , **2005**, 38, 2497-2518	3	165
184	Optical properties of human maxillary sinus mucosa and estimation of Methylene Blue diffusion coefficient in the tissue **2005**,		4
183	Estimation of melanin content in iris of human eye **2005**, 5688, 302		11
182	Mapping of optical properties of anisotropic biological tissues **2005**,		6
181	Optical clearing of human dura mater. *Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)*, **2005**, 98, 470-476	0.7	32
180	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	0.7	28
179	Spectral characteristics of indocyanine Green upon its interaction with biological tissues. *Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)*, **2005**, 99, 560	0.7	17
178	Optical properties of the subcutaneous adipose tissue in the spectral range 400–2500 nm. *Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)*, **2005**, 99, 836	0.7	79
177	Optical transmission of hollow glass photonic-crystal fibers. *Technical Physics Letters*, **2005**, 31, 1019-1021	1.7	1
176	Confocal photothermal flow cytometry in vivo **2005**, 5697, 15		5
175	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	3	20
174	In vivo integrated flow image cytometry and lymph/blood vessels dynamic microscopy. *Journal of Biomedical Optics*, **2005**, 10, 054018	3.5	28
173	The affect of low-coherent light on microbial colony forming ability and morphology of some gram-positive and gram-negative bacteria **2005**,		1
172	Management in biophotonics and biotechnologies **2005**, 9664, 57		
171	Optical Clearing of Tissues and Blood **2005**,		102
170	Monitoring of glycated hemoglobin by OCT measurement of refractive index **2004**,		7
169	Low-intensity indocyanine-green laser phototherapy of acne vulgaris: pilot study. *Journal of Biomedical Optics*, **2004**, 9, 828-34	3.5	69

168	Methylene blue diffusion in skin tissue **2004**,		3
167	Optical properties of mucous membrane in the spectral range 350–2000 nm. *Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)*, **2004**, 97, 978-983	0.7	15
166	Influence of clearing solutions osmolarity on the optical properties of RBC **2004**,		7
165	Polarization reflectance spectroscopy of biological tissues: Diagnostic applications. *Radiophysics and Quantum Electronics*, **2004**, 47, 860-875	0.7	2
164	Design and evaluation of a novel portable erythema-melanin-meter. *Lasers in Surgery and Medicine*, **2004**, 34, 127-35	3.6	46
163	Theoretical study of immersion optical clearing of blood in vessels at local hemolysis. *Optics Express* , **2004**, 12, 2966-71	3.3	41
162	ICG laser therapy of acne vulgaris **2004**, 5319, 363		1
161	Suspension properties of whole blood and its components under glucose influence studied in patients with acute coronary syndrome **2004**, 5330, 200		1
160	Monitoring of small lymphatics function under different impact on animal model by integrated optical imaging **2004**,		5
159	Study of the growth of fractal-like interfaces in porous media by use of the speckle-correlometric technique **2004**, 5330, 148		
158	Effect of dehydration on optical clearing and OCT imaging contrast after impregnation of biological tissue with biochemical agents **2004**,		2
157	Optical immersion of erythrocytes in blood: a theoretical modeling **2004**, 5486, 339		0
156	Photothermal imaging of moving cells in lymph and blood flow in vivo **2004**,		15
155	Diffusing Wave Spectroscopy: Application for Skin Blood Monitoring **2004**, 139-164		1
154	Laser Doppler and Speckle Techniques for Bioflow Measurements **2004**, 397-435		2
153	Laser Speckle Imaging of Cerebral Blood Flow **2004**, 165-195		3
152	Skin backreflectance and microvascular system functioning at the action of osmotic agents. *Journal Physics D: Applied Physics*, **2003**, 36, 1739-1746	3	61
151	Thermal action on the lipocells **2003**,		3

150	Controlling of optical properties of biological tissues and blood **2003**, 4829, 1000		
149	Application of optical coherence tomography for diagnosis and measurements of glycated hemoglobin **2003**, 5140, 125		2
148	Photodynamic bacteria inactivation by NIR LED (810 nm) in conjunction with ICG **2003**,		2
147	Possible mechanisms for optical clearing of whole blood by dextrans **2003**,		3
146	Interferometric system with resolution better than coherence length for determination of geometrical thickness and refractive index of a layer object **2003**, 4956, 163		1
145	Lethal photosensitization of pathogenic microflora using red LED radiation (660 nm) and methylene blue **2003**,		1
144	Enhance light penetration in tissue for high-resolution optical imaging techniques by the use of biocompatible chemical agents **2003**,		6
143	A pilot study of ICG laser therapy of acne vulgaris: photodynamic and photothermolysis treatment. *Lasers in Surgery and Medicine*, **2003**, 33, 296-310	3.6	96
142	Effect of dextran-induced changes in refractive index and aggregation on optical properties of whole blood. *Physics in Medicine and Biology*, **2003**, 48, 1205-21	3.8	56
141	Glucose and mannitol diffusion in human dura mater. *Biophysical Journal*, **2003**, 85, 3310-8	2.9	109
140	The diagnosis of lymph microcirculation in experimental studies on rat mesentery in vivo **2003**, 4965, 55		2
139	The scattering spectra and color of disperse systems of weakly absorbing particles. *Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)*, **2002**, 93, 273-281	0.7	
138	Laser monitoring of the flow velocity in lymphatic microvessels based on a spatiotemporal correlation of the dynamic speckle fields. *Technical Physics Letters*, **2002**, 28, 690-692	0.7	4
137	The space-time correlation of the intensity of a speckle field formed as a result of scattering of focused coherent radiation by a capillary liquid flow containing scattering particles. *Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)*, **2002**, 93, 434-438	0.7	7
136	Display of spatial coherence of light in interference experiments: laboratory works and demonstrations **2002**, 4588, 499		
135	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	1.8	34
134	Manifestation of spatial coherence of light in interference experiments **2002**, 4705, 75		
133	Influence of glycerol on the transport of light in the skin **2002**,		9

132	Scleral tissue clearing effects **2002**,		3
131	Optical coherent techniques for study of blood sedimentation and aggregation **2002**, 4619, 149		
130	In vitro and in vivo study of dye diffusion into the human skin and hair follicles. *Journal of Biomedical Optics*, **2002**, 7, 471-7	3.5	56
129	In-vivo lymph dynamic monitoring using speckle-correlation technique and light microscopy **2002**, 4624, 130		1
128	Control of rabbit dura mater optical properties with osmotical liquids **2002**, 4536, 147		5
127	Development imaging and experimental model for studying pathogenesis and treatment efficacy of postmastectomy lymphedema **2002**,		1
126	In-vitro study of methylene blue diffusion through the skin tissue **2002**, 4609, 29		3
125	Functional monitoring of a living tissue at its clearing **2002**, 4623, 300		
124	Optical properties of hair shafts estimated using the digital video microscopic system and inverse Monte Carlo method **2002**, 4609, 1		3
123	Laser speckle flow velocity sensor for functional biomicroscopy **2002**, 4707, 206		2
122	Tissue structure analysis at optical immersion **2002**,		1
121	Dynamic optical coherence tomography in studies of optical clearing, sedimentation, and aggregation of immersed blood. *Applied Optics*, **2002**, 41, 258-71	1.7	118
120	Optical tomography of tissues. *Quantum Electronics*, **2002**, 32, 849-867	1.8	55
119	Laser Tomography **2002**, 147-194		3
118	Enhance light penetration in tissue for high resolution optical imaging techniques by the use of biocompatible chemical agents. *Journal of X-Ray Science and Technology*, **2002**, 10, 167-76	2.1	14
117	Experimental evaluation on the transmission optical microscopy for the diagnosis of lymphedema. *Journal of X-Ray Science and Technology*, **2002**, 10, 215-23	2.1	5
116	Double-wavelength laser scanning microphotometer (DWLSM) for in-vitro hair shaft and surrounding tissue imaging **2001**, 4244, 152		3
115	Monte Carlo simulation of light propagation in multilayered tissue with cleared inclusions **2001**,		2

114	Blood immersion and sedimentation study using OCT technique **2001**,		1
113	Immersion technique as a tool for in-depth OCT imaging through human blood and body's interior tissues **2001**,		1
112	Whole blood and RBC sedimentation and aggregation study using OCT **2001**,		3
111	Sedimentation of immersed blood studied by OCT **2001**,		4
110	In vivo investigation of the immersion-liquid-induced human skin clearing dynamics. *Technical Physics Letters*, **2001**, 27, 489-490	0.7	45
109	The interaction of indocyanine green dye with the human epidermis studied in vivo. *Technical Physics Letters*, **2001**, 27, 602-604	0.7	7
108	In-vivo and in-vitro study of control of rat skin optical properties by action of 40%-glucose solution **2001**,		8
107	Use of dynamic speckle field space-time correlation function estimates for the direction and velocity determination of blood flow **2001**, 4434, 192		8
106	Blood flow assessment in capillaries of human eye conjunctiva using laser Doppler technique **2001**, 4427, 104		2
105	Tissue structure and blood microcirculation monitoring by speckle interferometry and full-field correlometry **2001**,		2
104	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	1.7	155
103	Light-scattering properties for spherical and cylindrical particles: a simple approximation derived from Mie calculations **2001**, 4241, 247		5
102	Investigation of blood flow microcirculation by diffusing wave spectroscopy. *Critical Reviews in Biomedical Engineering*, **2001**, 29, 535-48	1.1	8
101	Control of optical properties of biotissues: I. spectral properties of the eye sclera. *Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)*, **2000**, 89, 78-86	0.7	8
100	Coherent and polarization imaging: novel approaches in tissue diagnostics by laser light scattering **2000**, 3927, 179		1
99	Tissue image contrasting using optical immersion technique **2000**, 4224, 351		3
98	Diffusion of glucose solution through fibrous tissues: in-vitro optical and weight measurements **2000**, 4001, 255		3
97	Computer simulation of light propagation in a multilayer biological tissue by the Monte Carlo method **2000**,		1

96	Imaging of lymph flow in single microvessels in vivo **2000**, 4224, 317	1
95	Measurement of an optical anisotropy of biotissues **2000**,	3
94	Analysis of the penetration process of drugs and cosmetic products into the skin by tape stripping in combination with spectroscopic measurements **2000**, 3915, 194	3
93	Comparison of lymph and blood flow in microvessels: coherent optical measurements **2000**,	5
92	Immersion effects in tissues **2000**, 4162, 1	3
91	Computer simulation of light propagation in a multilayered biological tissue by Monte-Carlo method **2000**, 3915, 266	
90	In-vitro study of control of human dura mater optical properties by acting of osmotical liquids **2000**,	6
89	Peculiarities of lymph flow in microvessels **2000**, 3923, 149	1
88	In-vitro and in-vivo study of dye diffusion into the human skin and hair follicles **2000**,	6
87	Applications of direct atomic laser spectral analysis of laser plasma for determination of inorganic component presence in biological objects **2000**,	2
86	Controlling of tissue optical properties **2000**,	4
85	Controlling optical properties of biological tissues: II. Coherent optical methods for studying the tissue structure. *Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)*, **2000**, 88, 936-943 87	3
84	Effects of scattering particle concentration on light propagation through turbid media **2000**,	2
83	Photodynamic action of laser radiation and methylene blue on some opportunistic microorganisms of the oral cavity **2000**, 3910, 30	2
82	In-vivo and in-vitro study of control of rat skin optical properties by action of osmotical liquid **2000**, 4224, 300	19
81	Estimation of glucose diffusion coefficient in scleral tissue **2000**, 4001, 345	4
80	Optical properties of melanin in the skin and skinlike phantoms **2000**,	23
79	Estimation of wavelength dependence of refractive index of collagen fibers of scleral tissue **2000**,	30

78	Dynamics of optical clearing of human skin in vivo **2000**, 4162, 227		8
77	Measurement of the optical anisotropy of biological tissues with the use of a nematic liquid crystal cell. *Journal of Optical Technology (A Translation of Opticheskii Zhurnal)*, **2000**, 67, 559	0.9	5
76	Blood-flow measurements with a small number of scattering events. *Applied Optics*, **2000**, 39, 2823-30	1.7	16
75	Use of low-coherence speckled speckles for bioflow measurements. *Applied Optics*, **2000**, 39, 6385-9	1.7	8
74	Osmotical liquid diffusion within sclera **2000**,		4
73	Measurement of retinal visual acuity in human eyes **2000**,		1
72	Control of optical properties of biotissues: I. spectral properties of the eye sclera **2000**, 89, 78		5
71	Layered Gel-Based Phantoms Mimicking Fluorescence of Cervical Tissue **2000**, 301-306		
70	Characteristic scales of optical field depolarization and decorrelation for multiple scattering media and tissues. *Journal of Biomedical Optics*, **1999**, 4, 157-63	3.5	10
69	Coherent optical techniques for the analysis of tissue structure and dynamics. *Journal of Biomedical Optics*, **1999**, 4, 106-24	3.5	49
68	Laser interferential diagnostics of retinal visual acuity of the human eye with cataract **1999**, 3598, 288		2
67	Refractive index matching of tissue components as a new technology for correlation and diffusing-photon spectroscopy and imaging **1999**, 3598, 111		4
66	Human sclera dynamic spectra: in-vitro and in-vivo measurements **1999**,		12
65	Correlation of fluorescence and reflectance spectra of tissue phantoms with their structure and composition **1999**, 3598, 294		
64	Influence of osmotically active chemical agents on the transport of light in scleral tissue **1999**, 3726, 403		
63	Time-dependent speckle contrast measurements for blood microcirculation monitoring **1999**,		3
62	Diffusing-wave spectroscopy of flows **1999**, 3732, 336		
61	Optical imaging of physiological processes in the human brain: overview **1999**, 3726, 358		

60	Evaluation of the degree of turbidity of cataract lens and its correlation with retinal visual acuity **1999**, 3591, 74		
59	Dosimetry of laser radiation for immersed skin **1999**, 3601, 491		
58	Influence of low-power laser irradiation on lymph microcirculation during increased NO production **1999**,		1
57	On the interrelation of the characteristic scales of depolarization and decorrelation of optical fields under multiple-scattering conditions. *JETP Letters*, **1998**, 67, 476-481	1.2	3
56	Coherent, low-coherent, and polarized light interaction with tissues undergoing refractive-index matching control **1998**, 3251, 12		6
55	Modeling of the light-scattering spectra by the human eye lens **1998**, 3246, 299		1
54	Scleral tissue light scattering and matter diffusion **1998**, 3246, 249		1
53	Use of speckled speckles and low-coherent speckles in the imaging of biofluid flow velocity **1998**, 3251, 235		
52	Trazograph influence on osmotic pressure and tissue structures of human sclera **1997**, 2971, 198		3
51	Optical and osmotic properties of human sclera **1997**, 2979, 658		1
50	Control of bovine sclera optical characteristics with various osmolytes **1997**,		1
49	Speckle pattern polarization analysis as an approach to turbid tissue structure monitoring **1997**, 2981, 172		3
48	Coherent-domain methods in biomedical optics **1997**, 3317, 342		
47	Coherent and polarimetric optical technologies for the analysis of tissue structure **1997**,		5
46	Investigation of statistical properties of lymph-flow dynamics using speckle microscopy **1997**,		1
45	Tissue structure and eye lens transmission and scattering spectra **1997**,		4
44	Light propagation in tissues with controlled optical properties. *Journal of Biomedical Optics*, **1997**, 2, 401-17	3.5	304
43	Spatial speckle correlometry in applications to tissue structure monitoring. *Applied Optics*, **1997**, 36, 5594-607	1.7	14

42	Effect of the scattering delay on time-dependent photon migration in turbid media. *Applied Optics*, **1997**, 36, 6529-38	1.7	20
41	The application of speckle interferometry for the monitoring of blood and lymph flow in microvessels. *Lasers in Medical Science*, **1997**, 12, 31-41	3.1	11
40	Fractality of speckle intensity fluctuations. *Applied Optics*, **1996**, 35, 4325-33	1.7	10
39	Diffraction method of vocal chord oscillation sensing **1996**, 2676, 171		
38	In-vitro human sclera structure analysis using tissue optical immersion effect **1996**,		12
37	The application of speckle interferometry for the monitoring of blood and lymph flow in microvessels. *Lasers in Medical Science*, **1996**, 11, 97-107	3.1	2
36	Light propagation in tissues with controlled optical properties **1996**,		18
35	Analysis of Lymph Flow by Speckle-Interferometry Utilizing the Strongly Focused Gaussian Beam Scattering **1996**, 559-563		
34	Controlling optical properties of sclera **1995**,		18
33	Fundamentals of ophthalmic diagnostical methods based on laser light scattering **1995**,		4
32	Blood and lymph flow measurements in microvessels using focused laser beam diffraction phenomenon **1995**,		1
31	Speckle-imaging methods using focused laser beams in applications to tissue mapping **1995**, 2433, 411		
30	Lenslike local scatterer approach to biotissue structure analysis **1995**, 2647, 334		
29	Angular scattering properties of human epidermal layers **1994**,		2
28	Fundamentals and applications of dynamic speckles induced by focused laser beam scattering. *Optical Engineering*, **1994**, 33, 3189	1.1	26
27	Speckle interferometry for biotissue vibration measurement. *Optical Engineering*, **1994**, 33, 908	1.1	23
26	Tissue optics, light distribution, and spectroscopy. *Optical Engineering*, **1994**, 33, 3178	1.1	85
25	Human eye lens spectroscopy and modeling of its transmittance **1994**, 2126, 393		1

24	Modeling of temperature distribution in the skin irradiated by visible laser-light **1994**,		4
23	Light interaction with biological tissues: overview **1993**, 1884, 234		15
22	Pulse-wave monitoring by means of focused laser beams scattered by skin surface and membranes **1993**, 1884, 160		13
21	Laser light scattering in biomedical diagnostics and therapy. *Journal of Laser Applications*, **1993**, 5, 43-60	2.1	46
20	Effects of low-energy laser biostimulation on rheological properties of blood **1993**,		2
19	Lasers and fiber optics in medicine **1993**,		3
18	Speckle interferometry in the measurements of biotissue vibrations **1992**, 1647, 125		2
17	Laser speckle and optical fiber sensors for micromovements monitoring in biotissues **1991**,		4
16	Laser photochemotherapy of psoriasis **1991**, 1422, 85		
15	Quasi-periodic oscillations and chaos in a gas-discharge active mode-locked laser. *Journal of the Optical Society of America B: Optical Physics*, **1988**, 5, 1134	1.7	6
14	Intensity modulation in gas lasers operating with coupled modes. *Radiophysics and Quantum Electronics*, **1982**, 25, 10-15	0.7	
13	Intensity fluctuations in the emission from an argon ion laser. *Soviet Journal of Quantum Electronics*, **1979**, 9, 902-904		
12	Concerning the sensitivity of the method of determining the dispersion width of the atomic-transition line in a gas laser to the excitation level. *Radiophysics and Quantum Electronics*, **1974**, 17, 160-164	0.7	
11	The dispersion characteristic of a three-mode gas laser for modulation of the relative excitation. *Radiophysics and Quantum Electronics*, **1973**, 16, 684-688	0.7	
10	Modulation of the radiation frequency of a gas laser by modulation of the relative excitation. *Radiophysics and Quantum Electronics*, **1971**, 14, 1049-1053	0.7	
9	Tissue Optics and Photonics: Light-Tissue Interaction. *Journal of Biomedical Photonics and Engineering*,98-134	2.4	51
8	Software development for estimation of optical clearing agent□ diffusion coefficients in biological tissues. *Journal of Biomedical Photonics and Engineering*,255-269	2.4	3
7	Optical Clearing of Tissues: Benefits for Biology, Medical Diagnostics, and Phototherapy		2

6	Laser speckle contrast imaging for monitoring of acute pancreatitis at ischemia-reperfusion of pancreas in rats. *Journal of Innovative Optical Health Sciences*,	1.2	1
5	Quantitative super-resolution solid immersion microscopy via refractive index profile reconstruction. *Optica*,	8.6	6
4	Ex-vivo confocal Raman microspectroscopy of porcine skin with 633/785-NM laser excitation and optical clearing with glycerol/water/DMSO solution. *Journal of Innovative Optical Health Sciences*,2142003	1.2	2
3	Varying of up-conversion nanoparticles luminescence from the muscle tissue depth during the compression. *Journal of Innovative Optical Health Sciences*,2143001	1.2	0
2	Glycerol effects on optical, weight and geometrical properties of skin tissue. *Journal of Innovative Optical Health Sciences*,2142006	1.2	1
1	Handbook of Tissue Optical Clearing		6