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Optical properties of biological tissues: a review

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1486	Performance of optoacoustic and fluorescence imaging in detecting deep-seated fluorescent agents. <b>2018</b> , 9, 2229-2239	28
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904	Nanosecond pulsed deep-red laser source by intracavity frequency-doubled crystalline Raman laser. <b>2021</b> , 46, 3207-3210	3
903	A comparison study of photothermal effect between moxibustion therapy and laser irradiation on biological tissue. <b>2021</b> , 164, 106924	1

902	Compressed sensing in fluorescence microscopy. <b>2021</b> , 168, 66-66	2
901	Speckle statistics of biological tissues in optical coherence tomography. <b>2021</b> , 12, 4179-4191	4
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899	A microscopic study on scattering in tissue section of Alternanthera philoxeroides under polarized light. <b>2021</b> , 46, 1	Ο
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879	Early detection onset of flap failure using near infrared spectroscopy. <b>2021</b> , 1-6	O
878	Light Technology for Efficient and Effective Photodynamic Therapy: A Critical Review. 2021, 13,	20
877	Wireless, battery-free, subdermally implantable platforms for transcranial and long-range optogenetics in freely moving animals. <b>2021</b> , 118,	7
876	Noninvasive In Vivo Estimation of Blood-Glucose Concentration by Monte Carlo Simulation. <b>2021</b> , 21,	2
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873	Assessment of tissue biochemical and optical scattering changes due to hypothermic organ preservation: a preliminary study in mouse organs. <b>2021</b> , 54, 374003	2
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869	Three-compartment-breast (3CB) prior-guided diffuse optical tomography based on dual-energy digital breast tomosynthesis (DBT). <b>2021</b> , 12, 4837-4851	2
868	Pathloss modeling for in-body optical wireless communications. <b>2021</b> ,	О
867	Comparison of different spectral cameras for image-guided organ transplantation. <b>2021</b> , 26,	2

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865	In-silico investigation towards the non-invasive optical detection of blood lactate. <b>2021</b> , 11, 14274	O
864	Neural anatomy and optical microscopy (NAOMi) simulation for evaluating calcium imaging methods. <b>2021</b> , 358, 109173	9
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859	KubelkaMunk Model and Stochastic Model Comparison in Skin Physical Parameter Retrieval. <b>2022</b> , 137-151	
858	Unsupervised Numerical Characterization in Determining the Borders of Malignant Skin Tumors from Spectral Imagery. <b>2022</b> , 153-176	
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851	Functional multispectral optoacoustic tomography imaging of hepatic steatosis development in mice. <b>2021</b> , 13, e13490	2
850	All-fiber few-mode optical coherence tomography using a modally-specific photonic lantern. <b>2021</b> , 12, 5704-5719	2
849	Current Review of Optical Neural Interfaces for Clinical Applications. <b>2021</b> , 12,	O

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847	Random laser as a potential tool for the determination of the scattering coefficient. <b>2021</b> , 12, 5439-5451	3
846	Effect of Spatial Modulated Light on Position of Self-Calibration Point. 2021, 13, 1-5	
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844	Optical Hemodynamic Imaging of Jugular Venous Dynamics During Altered Central Venous Pressure. <b>2021</b> , 68, 2582-2591	2
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842	Rapid and non-destructive spectroscopic method for classifying beef freshness using a deep spectral network fused with myoglobin information. <b>2021</b> , 352, 129329	7
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834	Glycerol-in-SEBS gel as a material to manufacture stable wall-less vascular phantom for ultrasound and photoacoustic imaging. <b>2021</b> , 7,	2
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830	Automatic Recognition of Colon and Esophagogastric Cancer with Machine Learning and Hyperspectral Imaging. <b>2021</b> , 11,	6
829	High-Fidelity NIR-II Multiplexed Lifetime Bioimaging with Bright Double Interfaced Lanthanide Nanoparticles. <b>2021</b> , 60, 23545-23551	15
828	Pyrrole-based photosensitizers for photodynamic therapy (2) Thomas Dougherty award paper. <b>2021</b> , 25, 773-793	О
827	Compact setup to determine size and concentration of spherical particles in a turbid medium. <b>2021</b> , 60, 8174-8180	О
826	Optical breast atlas as a testbed for image reconstruction in optical mammography. <b>2021</b> , 8, 257	
825	Effect of curvature correction on parameters extracted from hyperspectral images. <b>2021</b> , 26,	1
824	Covalent F-Radiotracers for SNAPTag: A New Toolbox for Reporter Gene Imaging. <b>2021</b> , 14,	2
823	Twente Photoacoustic Mammoscope 2: system overview and three-dimensional vascular network images in healthy breasts. <b>2019</b> , 24, 1-12	22
822	Photoacoustic imaging of breast cancer: a mini review of system design and image features. <b>2019</b> , 24, 1-13	36
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818	Corneal thickness measurement by secondary speckle tracking and image processing using machine-learning algorithms. <b>2019</b> , 24, 1-10	1
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815	Characterization of laser ultrasound source signals in biological tissues for imaging applications. <b>2018</b> , 24, 1-11	4
814	Photoacoustic computed tomography of human extremities. <b>2019</b> , 24, 1-8	24
813	Measurement of the refractive index of whole blood and its components for a continuous spectral region. <b>2019</b> , 24, 1-5	21

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811	Photoacoustic properties of anterior ocular tissues. <b>2019</b> , 24, 1-11	5
810	Three-dimensional maps of human skin properties on full face with shadows using 3-D hyperspectral imaging. <b>2019</b> , 24, 1-14	7
809	Second-harmonic generation microscopy analysis reveals proteoglycan decorin is necessary for proper collagen organization in prostate. <b>2019</b> , 24, 1-8	9
808	Excitation of erbium-doped nanoparticles in 1550-nm wavelength region for deep tissue imaging with reduced degradation of spatial resolution. <b>2019</b> , 24, 1-4	7
807	Review of structured light in diffuse optical imaging. <b>2018</b> , 24, 1-20	49
806	Optical sampling depth in the spatial frequency domain. <b>2018</b> , 24, 1-14	21
805	Recovery of layered tissue optical properties from spatial frequency-domain spectroscopy and a deterministic radiative transport solver. <b>2018</b> , 24, 1-11	4
804	Hyperspectral imaging in the spatial frequency domain with a supercontinuum source. <b>2019</b> , 24, 1-9	11
803	Theoretical and experimental characterization of emission and transmission spectra of Cerenkov radiation generated by 177Lu in tissue. <b>2019</b> , 24, 1-10	5
802	Functionalized erythrocyte-derived optical nanoparticles to target ephrin-B2 ligands. <b>2019</b> , 24, 1-9	6
801	Fluorescence monitoring of rare circulating tumor cell and cluster dissemination in a multiple myeloma xenograft model in vivo. <b>2019</b> , 24, 1-11	11
800	Review of methods and applications of attenuation coefficient measurements with optical coherence tomography. <b>2019</b> , 24, 1-17	25
799	Structured light imaging for breast-conserving surgery, part II: texture analysis and classification. <b>2019</b> , 24, 1-12	7
798	Subdiffuse scattering model for single fiber reflectance spectroscopy. <b>2020</b> , 25, 1-11	4
797	Investigation of light delivery geometries for photoacoustic applications using Monte Carlo simulations with multiple wavelengths, tissue types, and species characteristics. <b>2020</b> , 25, 1-16	9
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795	Anthropomorphic optical phantom of the neonatal thorax: a key tool for pulmonary studies in preterm infants. <b>2020</b> , 25,	6

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793	Label-free high-throughput photoacoustic tomography of suspected circulating melanoma tumor cells in patients in vivo. <b>2020</b> , 25, 1-17	9
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791	Investigation of the quantification of hemoglobin and cytochrome-c-oxidase in the exposed cortex with near-infrared hyperspectral imaging: a simulation study. <b>2020</b> , 25, 1-25	3
790	Rise of Raman spectroscopy in neurosurgery: a review. <b>2020</b> , 25, 1-36	17
789	Role of scattering and birefringence in phase retardation revealed by locus of Stokes vector on Poincar[sphere. <b>2020</b> , 25, 1-13	6
788	Minimal required PDT light dosimetry for nonmuscle invasive bladder cancer. <b>2020</b> , 25, 1-13	6
787	Toward accurate quantitative photoacoustic imaging: learning vascular blood oxygen saturation in three dimensions. <b>2020</b> , 25,	20
786	Diffuse correlation spectroscopy measurements of blood flow using 1064′nm light. <b>2020</b> , 25,	16
785	Review of quantitative multiscale imaging of breast cancer. <b>2018</b> , 5, 010901	10
785 784	Review of quantitative multiscale imaging of breast cancer. <b>2018</b> , 5, 010901  Investigation of the sensitivity of functional near-infrared spectroscopy brain imaging to anatomical variations in 5- to 11-year-old children. <b>2018</b> , 5, 011009	10
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784	Investigation of the sensitivity of functional near-infrared spectroscopy brain imaging to anatomical variations in 5- to 11-year-old children. <b>2018</b> , 5, 011009  Development and characterization of a multidistance and multiwavelength diffuse correlation	17
784 783	Investigation of the sensitivity of functional near-infrared spectroscopy brain imaging to anatomical variations in 5- to 11-year-old children. <b>2018</b> , 5, 011009  Development and characterization of a multidistance and multiwavelength diffuse correlation spectroscopy system. <b>2018</b> , 5, 011015	17 19
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784 783 782 781	Investigation of the sensitivity of functional near-infrared spectroscopy brain imaging to anatomical variations in 5- to 11-year-old children. <b>2018</b> , 5, 011009  Development and characterization of a multidistance and multiwavelength diffuse correlation spectroscopy system. <b>2018</b> , 5, 011015  Selective photobiomodulation for emotion regulation: model-based dosimetry study. <b>2019</b> , 6, 015004  Intraoperative quantitative functional brain mapping using an RGB camera. <b>2019</b> , 6, 045015	17 19 29
784 783 782 781 780	Investigation of the sensitivity of functional near-infrared spectroscopy brain imaging to anatomical variations in 5- to 11-year-old children. 2018, 5, 011009  Development and characterization of a multidistance and multiwavelength diffuse correlation spectroscopy system. 2018, 5, 011015  Selective photobiomodulation for emotion regulation: model-based dosimetry study. 2019, 6, 015004  Intraoperative quantitative functional brain mapping using an RGB camera. 2019, 6, 045015  Anisotropic light scattering from myelinated axons in the spinal cord. 2020, 7, 015011  Combination of diffuse reflectance and transmittance spectroscopy to obtain optical properties of	17 19 29 9

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775	The influence of local pressure on evaluation parameters of skin blood perfusion and fluorescence. <b>2017</b> ,	4
774	Advances in flexible optrode hardware for use in cybernetic insects. 2017,	2
773	Characterization of the Cherenkov scatter function for use in superficial dose measurement from external beam radiation treatments. <b>2018</b> ,	3
77²	Catheter design optimization for practical intravascular photoacoustic imaging (IVPA) of vulnerable plaques. <b>2018</b> ,	2
771	In vivo measurements of optical properties of human muscles with visible and near infrared reflectance spectroscopy. <b>2018</b> ,	1
770	Dual scale biomechanics of extracellular matrix proteins probed by Brillouin scattering and quasistatic tensile testing. <b>2018</b> ,	2
769	Comparison of a novel 450-nm laser with Ho:YAG (2100 nm), Tm fiber (1940 nm), and KTP (532 nm) lasers for soft-tissue ablation. <b>2018</b> ,	3
768	Hyperspectral imaging and spatial frequency domain imaging: combined acquisition for full face skin analysis. <b>2019</b> ,	2
767	Tolerating uncertainty: photodynamic therapy planning with optical property variation. 2019,	3
766	Bioresorbable fibers for time-domain diffuse optical measurements: a step toward next generation optical implantable devices. <b>2019</b> ,	1
765	Novel deep learning architecture for optical fluence dependent photoacoustic target localization. <b>2019</b> ,	5
764	Evaluation of a transparent cranial implant for multi-wavelength intrinsic optical signal imaging. <b>2019</b> ,	3
763	Validation of two techniques for intraoperative hyperspectral human tissue determination. 2019,	6
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761	Preliminary vastus lateralis characterization with time domain near infrared spectroscopy during incremental cycle exercise. <b>2019</b> ,	1
760	Optical access to the brain through a transparent cranial implant. 2020,	1
759	Hemodynamics in traumatic bruises assessed by diffuse reflectance spectroscopy and photothermal radiometry. <b>2020</b> ,	1

758	Optode Design Space Exploration for Clinically-robust Non-invasive Fetal Oximetry. <b>2019</b> , 18, 1-22	7
757	Sound Out the Deep Colors: Photoacoustic Molecular Imaging at New Depths. <b>2020</b> , 19, 1536012120981518	3
756	Measurement method of optical properties of ex vivo biological tissues of rats in the near-infrared range. <b>2020</b> , 59, D111-D117	4
755	Merging Mie solutions and the radiative transport equation to measure optical properties of scattering particles in optical phantoms. <b>2020</b> , 59, 10591-10598	1
754	Evaluating edge loss in the reflectance measurement of translucent materials. <b>2020</b> , 59, 8939-8950	2
753	Collimated light reflection and transmission of a surface partially covered by large and tenuous particles. <b>2016</b> , 55, 8657-8666	3
752	Multispectral measurement of scattering-angular light distribution in apple skin and flesh samples. <b>2016</b> , 55, 9217-9225	8
75 <sup>1</sup>	Efficient generation of 1.9 W yellow light by cascaded frequency doubling of a distributed Bragg reflector tapered diode. <b>2016</b> , 55, 9270-9274	10
750	Diffuse optical localization of blood vessels and 3D printing for guiding oral surgery. <b>2017</b> , 56, 6649-6654	7
749	High-resolution 3D light fluence mapping for heterogeneous scattering media by localized sampling. <b>2018</b> , 57, 10441-10448	2
748	Influence of blood pulsation on diagnostic volume in pulse oximetry and photoplethysmography measurements. <b>2019</b> , 58, 9398-9405	21
747	Polymer dots enable deep multiphoton fluorescence imaging of microvasculature. <b>2019</b> , 10, 584-599	10
746	Comparison of time- and angular-domain scatter rejection in mesoscopic optical projection tomography: a simulation study. <b>2019</b> , 10, 747-760	4
745	Physiological and structural characterization of human skin in vivo using combined photothermal radiometry and diffuse reflectance spectroscopy. <b>2019</b> , 10, 944-960	15
744	Automated segmentation of dermal fillers in OCT images of mice using convolutional neural networks. <b>2019</b> , 10, 1315-1328	8
743	Long-term Brillouin imaging of live cells with reduced absorption-mediated damage at 660 nm wavelength. <b>2019</b> , 10, 1567-1580	30
742	Pulsed laser damage of gold nanorods in turbid media and its impact on multi-spectral photoacoustic imaging. <b>2019</b> , 10, 1919-1934	7
741	Absorption spectra of early stool from preterm infants need to be considered in abdominal NIRS oximetry. <b>2019</b> , 10, 2784-2794	3

740	Head model based on the shape of the subject's head for optical brain imaging. <b>2019</b> , 10, 2795-2808	3
739	Towards real-time multispectral endoscopic imaging for cardiac lesion quality assessment. <b>2019</b> , 10, 2829-2846	7
738	Development of simple diffuse optical metabolic spectroscopy for tissue metabolism measurement. <b>2019</b> , 10, 2956-2966	6
737	Reducing artifacts in photoacoustic imaging by using multi-wavelength excitation and transducer displacement. <b>2019</b> , 10, 3124-3138	8
736	Toward optimization of blood brain barrier opening induced by laser-activated perfluorocarbon nanodroplets. <b>2019</b> , 10, 3139-3151	3
735	Enhanced near infrared optical access to the brain with a transparent cranial implant and scalp optical clearing. <b>2019</b> , 10, 3369-3379	7
734	Hyperspectral imaging of human skin aided by artificial neural networks. <b>2019</b> , 10, 3545-3559	31
733	Machine learning classification of human joint tissue from diffuse reflectance spectroscopy data. <b>2019</b> , 10, 3889-3898	5
73 <sup>2</sup>	Real-time optical properties and oxygenation imaging using custom parallel processing in the spatial frequency domain. <b>2019</b> , 10, 3916-3928	5
731	Depth-resolved assessment of changes in concentration of chromophores using time-resolved near-infrared spectroscopy: estimation of cytochrome-c-oxidase uncertainty by Monte Carlo simulations. <b>2019</b> , 10, 4621-4635	2
730	Evaluation of hyperspectral NIRS for quantitative measurements of tissue oxygen saturation by comparison to time-resolved NIRS. <b>2019</b> , 10, 4789-4802	10
729	Method to improve the depth sensitivity of diffuse reflectance measurements to absorption changes in optically turbid medium. <b>2019</b> , 10, 5031-5041	10
728	Concurrent fluorescence and volumetric optoacoustic tomography of nanoagent perfusion and bio-distribution in solid tumors. <b>2019</b> , 10, 5093-5102	10
727	In-vivo and ex-vivo optical clearing methods for biological tissues: review. <b>2019</b> , 10, 5251-5267	76
726	Characterization and modeling of acousto-optic signal strengths in highly scattering media. <b>2019</b> , 10, 5565-5584	4
7 <del>2</del> 5	Imaging hair cells through laser-ablated cochlear bone. <b>2019</b> , 10, 5974-5988	1
724	Multiplex protein-specific microscopy with ultraviolet surface excitation. <b>2020</b> , 11, 99-108	3
723	Instrument response function acquisition in reflectance geometry for time-resolved diffuse optical measurements. <b>2020</b> , 11, 240-250	7

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721	Design of a high-resolution light field miniscope for volumetric imaging in scattering tissue. <b>2020</b> , 11, 1662-1678	10
720	Determination of the optical properties of cholesteatoma in the spectral range of 250 to 800 nm. <b>2020</b> , 11, 1489-1500	3
719	Predictive model for the quantitative analysis of human skin using photothermal radiometry and diffuse reflectance spectroscopy. <b>2020</b> , 11, 1679-1696	5
718	Improving vascular imaging with co-planar mutually guided photoacoustic and diffuse optical tomography: a simulation study. <b>2020</b> , 11, 4333-4347	5
717	Real-time co-localized OCT surveillance of laser therapy using motion corrected speckle decorrelation. <b>2020</b> , 11, 2925-2950	5
716	Combined Nd:YAG and Er:YAG lasers for real-time closed-loop tissue-specific laser osteotomy. <b>2020</b> , 11, 1790-1807	8
715	Extendable, large-field multi-modal optical imaging system for measuring tissue hemodynamics. <b>2020</b> , 11, 2339-2351	2
714	Hyperspectral and multispectral imaging in digital and computational pathology: a systematic review [Invited]. <b>2020</b> , 11, 3195-3233	31
713	Optical characterization of porcine tissues from various organs in the 650-1100 nm range using time-domain diffuse spectroscopy. <b>2020</b> , 11, 1697-1706	22
712	Conical ring array detector for large depth of field photoacoustic macroscopy. <b>2020</b> , 11, 2461-2475	2
711	Remitted photon path lengths in human skin: measurement data. <b>2020</b> , 11, 2866-2873	2
710	Measuring cell displacements in opaque tissues: dynamic light scattering in the multiple scattering regime. <b>2020</b> , 11, 2277-2297	2
709	photoacoustic potassium imaging of the tumor microenvironment. <b>2020</b> , 11, 3507-3522	4
708	Feasibility of near-infrared spectroscopy as a tool for anatomical mapping of the human epicardium. <b>2020</b> , 11, 4099-4109	5
707	Single snapshot spatial frequency domain imaging for risk stratification of diabetes and diabetic foot. <b>2020</b> , 11, 4471-4483	4
706	Resolving tissue chromophore concentration at MRI resolution using multi-wavelength photo-magnetic imaging. <b>2020</b> , 11, 4244-4254	2
705	Wavelength weightings in machine learning for ovine joint tissue differentiation using diffuse reflectance spectroscopy (DRS). <b>2020</b> , 11, 5122-5131	3

704	Compact and contactless reflectance confocal microscope for neurosurgery. <b>2020</b> , 11, 4772-4785	4
703	Single wavelength measurements of absorption coefficients based on iso-pathlength point. <b>2020</b> , 11, 5760-5771	4
702	Subdiffuse scattering and absorption model for single fiber reflectance spectroscopy. <b>2020</b> , 11, 6620-6633	4
701	Full-field spectral-domain optical interferometry for snapshot three-dimensional microscopy. <b>2020</b> , 11, 5903-5919	6
700	Tissue optical properties combined with machine learning enables estimation of articular cartilage composition and functional integrity. <b>2020</b> , 11, 6480-6494	6
699	Light-cell interactions in depth-resolved optogenetics. <b>2020</b> , 11, 6536-6550	1
698	Linear diattenuation imaging of biological tissues with near infrared Mueller scanning microscopy. <b>2021</b> , 12, 41-54	3
697	Direct measurement of the scattering coefficient. <b>2021</b> , 12, 320-335	5
696	Single-wavelength water muted photoacoustic system for detecting physiological concentrations of endogenous molecules. <b>2021</b> , 12, 666-675	2
695	Multi-beam scan analysis with a clinical LINAC for high resolution Cherenkov-excited molecular luminescence imaging in tissue. <b>2018</b> , 9, 4217-4234	7
694	Stable tissue-simulating phantoms with various water and lipid contents for diffuse optical spectroscopy. <b>2018</b> , 9, 5792-5808	15
693	Dual-display laparoscopic laser speckle contrast imaging for real-time surgical assistance. <b>2018</b> , 9, 5962-5981	21
692	Assessment of microvasculature flow state with a high speed all-optic dual-modal system of optical coherence tomography and photoacoustic imaging. <b>2018</b> , 9, 6103-6115	6
691	Melanoma Detection and Characterization with a 6-layered multispectral model. 2016,	1
690	Characterizing the depolarization of circularly polarized light in turbid scattering media. 2018, 35, 2104-2110	4
689	Simulation of UV power absorbed by follicular stem cells during sun exposure and possible implications for melanoma development. <b>2019</b> , 36, 628-635	5
688	Random laser based method for direct measurement of scattering properties. 2018, 26, 27615-27627	10
687	Bidirectional image transmission through physically thick scattering media using digital optical phase conjugation. <b>2018</b> , 26, 33066-33079	5

686	Enhanced deep detection of Raman scattered light by wavefront shaping. 2018, 26, 33565-33574	3
685	Focusing large spectral bandwidths through scattering media. <b>2019</b> , 27, 28384-28394	8
684	Reconstructing complex refractive-index of multiply-scattering media by use of iterative optical diffraction tomography. <b>2020</b> , 28, 6846-6858	5
683	Multimodal imaging combining time-domain near-infrared optical tomography and continuous-wave fluorescence molecular tomography. <b>2020</b> , 28, 9860-9874	5
682	Evaluation of visible NIR-I and NIR-II light penetration for photoacoustic imaging in rat organs. <b>2020</b> , 28, 9002-9013	16
681	Effect of image artefacts on phase conjugation with spectral domain optical coherence tomography. <b>2020</b> , 28, 18224-18240	1
680	Role of late photons in diffuse optical imaging. 2020, 28, 29486-29495	1
679	Imaging through opacity using a near-infrared low-spatial-coherence fiber light source. <b>2020</b> , 45, 3816-3819	9
678	Visible light OCT improves imaging through a highly scattering retinal pigment epithelial wall. <b>2020</b> , 45, 5945-5948	6
677	Dual-axis optical coherence tomography for deep tissue imaging. <b>2017</b> , 42, 2302-2305	16
676	Optical method to extract the reduced scattering coefficient from tissue: theory and experiments. <b>2018</b> , 43, 5299-5302	8
675	Correlation gating quantifies the optical properties of dynamic media in transmission. 2018, 43, 5881-5884	4
674	Polarization-sensitive imaging with simultaneous bright- and dark-field optical coherence tomography. <b>2019</b> , 44, 4040-4043	2
673	Noninvasive, in vivo rodent brain optical coherence tomography at 2.1 microns. <b>2019</b> , 44, 4147-4150	6
672	X-ray-induced shortwave infrared luminescence computed tomography. <b>2019</b> , 44, 4769-4772	8
671	Development of a beam propagation method to simulate the point spread function degradation in scattering media. <b>2019</b> , 44, 4989-4992	10
670	Endocardial irrigated catheter for volumetric optoacoustic mapping of radio-frequency ablation lesion progression. <b>2019</b> , 44, 5808-5811	6
669	Three-photon neuronal imaging in deep mouse brain. <b>2020</b> , 7, 947	41

668	Photoacoustic and acousto-optic tomography for quantitative and functional imaging. <b>2018</b> , 5, 1579	13
667	Optical beam propagation in soft anisotropic biological tissues. <b>2018</b> , 1, 1055	6
666	Determination of the optical properties of three-layered turbid media in the time domain using the P3 approximation. <b>2019</b> , 2, 1889	3
665	Detection of a novel mechanism of acousto-optic modulation of incoherent light. <b>2014</b> , 9, e104268	11
664	Seeing through Musculoskeletal Tissues: Improving In Situ Imaging of Bone and the Lacunar Canalicular System through Optical Clearing. <b>2016</b> , 11, e0150268	29
663	Electrophysiological and Anatomical Correlates of Spinal Cord Optical Coherence Tomography. <b>2016</b> , 11, e0152539	4
662	Photoacoustic imaging features of intraocular tumors: Retinoblastoma and uveal melanoma. <b>2017</b> , 12, e0170752	14
661	Lipofuscin-associated photo-oxidative stress during fundus autofluorescence imaging. <b>2017</b> , 12, e0172635	15
660	Label-free analysis of tenofovir delivery to vaginal tissue using co-registered confocal Raman spectroscopy and optical coherence tomography. <b>2017</b> , 12, e0185633	10
659	Clinical photoacoustic imaging of cancer. <b>2016</b> , 35, 267-80	90
658	Broadband spectroscopy for characterization of tissue-like phantom optical properties. <b>2017</b> , 23, 121-126	5
657	Development of Temperature Distribution and Light Propagation Model in Biological Tissue Irradiated by 980 nm Laser Diode and Using COMSOL Simulation. <b>2017</b> , 8, 118-122	2
656	Near-Infrared Visual Differentiation in Normal and Abnormal Breast Using Hemoglobin Concentrations. <b>2018</b> , 9, 50-57	3
655	Acoustic radiation force impulse elastography of the eyes of brachycephalic dogs. <b>2018</b> , 70, 1045-1052	O
654	Measuring Cortical Activity During Auditory Processing with Functional Near-Infrared Spectroscopy. <b>2018</b> , 8, 9-18	3
653	Skin aging: are adipocytes the next target?. <b>2016</b> , 8, 1457-69	34
652	Optical imaging probes in oncology. <b>2016</b> , 7, 48753-48787	37
651	INFLUENCE OF LASER BEAM PROFILE ON LIGHT SCATTERING BY HUMAN SKIN DURING PHOTOMETRY BY ELLIPSOIDAL REFLECTORS. <b>2018</b> , 9, 56-65	5

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650	From Light to Sound: Photoacoustic and Ultrasound Imaging in Fundamental Research of Alzheimer's Disease. <b>2020</b> , 4,	4
649	A High-Throughput Phenotyping System Using Machine Vision to Quantify Severity of Grapevine Powdery Mildew. <b>2019</b> , 2019, 9209727	13
648	Functional Photoacoustic and Ultrasonic Assessment of Osteoporosis: A Clinical Feasibility Study. <b>2020</b> , 2020, 1-15	12
647	Hybrid µCT-FMT imaging and image analysis. <b>2015</b> , e52770	25
646	Approximate marginalization of absorption and scattering in fluorescence diffuse optical tomography. <b>2016</b> , 10, 227-246	6
645	Picosecond Laser-Induced Photothermal Skin Damage Evaluation by Computational Clinical Trial. <b>2020</b> , 29, 61-72	3
644	Quantitative analysis of 1300-nm three-photon calcium imaging in the mouse brain. <b>2020</b> , 9,	31
643	Oxygen Saturation Measurement using Hyperspectral Imaging targeting Real-Time Monitoring. <b>2021</b> ,	O
642	Suppression of motion artifacts in intravascular photoacoustic image sequences. <b>2021</b> , 12, 6909-6927	1
641	Optical Fibre-Enabled Photoswitching for Localised Activation of an Anti-Cancer Therapeutic Drug. <b>2021</b> , 22,	1
640	Single-Photon Hologram of a Zero-Area Pulse. <b>2021</b> , 127, 163601	O
639	Sleep deprivation impairs cognitive performance, alters task-associated cerebral blood flow and decreases cortical neurovascular coupling-related hemodynamic responses. <b>2021</b> , 11, 20994	3
638	Accuracy of diffuse correlation spectroscopy measurements of cerebral blood flow when using a three-layer analytical model. <b>2021</b> , 12, 7149-7161	3
637	Green fluorescent protein-like pigments optimize the internal light environment in symbiotic reef building corals.	O
636	Discriminating turbid media by scatterer size and scattering coefficient using backscattered linearly and circularly polarized light. <b>2021</b> , 12, 6831-6843	2
635	Efficient light-harvesting of mesophotic corals is facilitated by coral optical traits.	1
634	Chromatic-aberration-free multispectral optical-resolution photoacoustic microscopy using reflective optics and a supercontinuum light source. <b>2021</b> , 60, 9651-9658	1
633	In vivo sensing of cutaneous edema: A comparative study of diffuse reflectance, Raman spectroscopy and multispectral imaging. <b>2021</b> , e202100268	O

632	Bioluminescence Tomography Based on One-Dimensional Convolutional Neural Networks. <b>2021</b> , 11, 760689	2
631	Multimodal hyperspectral fluorescence and spatial frequency domain imaging for tissue health diagnostics of the oral cavity. <b>2021</b> , 12, 6954-6968	O
630	Prediction of In Vivo Laser-Induced Thermal Damage with Hyperspectral Imaging Using Deep Learning. <b>2021</b> , 21,	2
629	Large-scale voltage imaging in behaving mice using targeted illumination. <b>2021</b> , 24, 103263	1
628	Monte Carlo analysis of optical heart rate sensors in commercial wearables: the effect of skin tone and obesity on the photoplethysmography (PPG) signal <b>2021</b> , 12, 7445-7457	3
627	Proposal for a Skin Layer-Wise Decomposition Model of Spatially-Resolved Diffuse Reflectance Spectra Based on Maximum Depth Photon Distributions: A Numerical Study. <b>2021</b> , 8, 444	2
626	635 'nm LED irradiation may prevent endoplasmic reticulum stress in MC3T3-E1 cells. <b>2021</b> , 1	O
625	Assessment of Skin Deep Layer Biochemical Profile Using Spatially Offset Raman Spectroscopy. <b>2021</b> , 11, 9498	2
624	In Vivo Three-Photon Microscopy of Mouse Brain Excited at the 2200 nm Window. <b>2021</b> , 8, 2898-2903	2
623	Electro-Optical Biosensor Based on Embedded Double-Monolayer of Graphene Capacitor in Polymer Technology. <b>2021</b> , 13,	O
622	Intraoperative Control of Hemoglobin Oxygen Saturation in the Intestinal Wall during Anastomosis Surgery. <b>2021</b> , 8, 427	1
621	Signal intensity of the random freeze beam in the biological turbulent tissue. 1-14	
620	Spatially Resolved Diffuse Reflectance Measurements for Oximetry. <b>2014</b> ,	
619	Research of Optical Radiation Absorption Process by Soft Periodontal Tissues. <b>2014</b> , 14,	
618	Comparison of the simplified laterally uniform and geometrically realistic optical fiber probe-tissue interface in terms of Monte Carlo simulated diffuse reflectance. <b>2015</b> ,	
617	Imaging the spectral reflectance properties of bipolar radiofrequency-fused bowel tissue. 2015,	1
616	Laser Catheter Ablation of Cardiac Arrhythmias: Experimental and Basic Research and Clinical Results. <b>2015</b> , 199-219	
615	Lazer Tomografi Yfitemi ile Akciër Dokusunun ficelenmesi. <b>2015</b> , 2,	

614	Monte Carlo simulation predicts deep-seated photoacoustic effect in heterogeneous tissues. 2016,	1
613	Wide-Field Absolute Quantification of Absorption in Turbid Media. 2016,	2
612	Cervical PLDD (Percutaneous Laser Discectomy). Ten Years Experience. <b>2016</b> , 73-87	O
611	Introduction. <b>2016</b> , 1-8	1
610	Non-contact scanning diffuse optical tomography for three-dimensional vascular imaging in a murine bone graft model. <b>2016</b> ,	
609	Optical property reconstruction of a two-layer diffusive medium from single-distance time-resolved measurements. <b>2016</b> ,	
608	Modeling the Laser Ablation Process. <b>2016</b> , 63-78	
607	Diffuse correlation tomography for longitudinal monitoring of murine femoral graft healing. 2016,	
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605	A volume scanner for diffuse imaging. <b>2016</b> ,	
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603	Multimodal Imaging and Image Fusion. <b>2017</b> , 491-507	1
602	Optical transparence windows for head tissues in near and short-wave infrared regions. 2017,	1
601	Multimodality fibered in vivo spectroscopy applied to skin hyperplastic and dysplastic class discrimination: spatially resolved data fusion-based classification. <b>2017</b> ,	
600	Preliminary study investigating depth sensitivity of spatially resolved bimodal spectroscopy combined to optical clearing agents on a human skin based-hybrid model. <b>2017</b> ,	
599	DEPENDENCE OF THE SPECKLE-PATTERNS SIZE AND THEIR CONTRAST ON THE BIOPHYSICAL AND STRUCTURAL PARAMETERS OF BIOLOGICAL TISSUES. <b>2017</b> , 8, 177-187	
598	Diffuse correlation tomography reveals spatial and temporal difference in blood flow changes among murine femoral grafts. <b>2017</b> ,	
597	Researching in biomaterials optics. <b>2017</b> ,	0

596	Thermal pulse propagation in the search of subcutaneous masses. 2017,	
595	In vivo multiphoton fluorescence imaging with polymer dots.	
594	Multispectral Near-Infrared Optical Tomography for Cancer Hypoxia Study in Mice. 2018, 1072, 165-169	
593	The Future of Intestinal Fibrosis Imaging. <b>2018</b> , 193-208	
592	Comparison of excitation wavelengths for in vivo deep imaging of mouse brain. 2018,	
591	Towards optogenetic control of spatiotemporal cardiac dynamics. 2018,	
590	Optimization of low-level light therapy's illumination parameters for spinal cord injury in a rat model. <b>2018</b> ,	
589	Factors affecting measurement of optic parameters by time-resolved near-infrared spectroscopy in breast cancer. <b>2018</b> , 23, 1-6	1
588	Evaluation of blood flow in human exercising muscle by diffuse correlation spectroscopy: a phantom model study. <b>2018</b> ,	1
587	Dynamics of controllably induced bruises assessed by diffuse reflectance spectroscopy and pulsed photothermal radiometry. <b>2018</b> ,	
586	Portable measurement system for real-time acquisition and analysis of in-vivo spatially resolved reflectance in the subdiffusive regime. <b>2018</b> ,	1
585	Hybrid system for in vivo real-time planar fluorescence and volumetric optoacoustic imaging. 2018,	1
584	The theory behind the full scattering profile. <b>2018</b> ,	
583	Polymer dots enable deep in vivo multiphoton fluorescence imaging of cerebrovascular architecture. <b>2018</b> ,	
582	Full scattering profile of tissues with elliptical cross sections. 2018,	
581	Multidirectional digital scanned light-sheet microscopy enables uniform fluorescence excitation and contrast-enhanced imaging.	
580	Multi-color autofluorescence and scattering spectroscopy provides rapid assessment of kidney function following ischemic injury. <b>2018</b> ,	
579	Optical coefficient measurements using bulk living tissue by an optical fiber puncture with FOV change. <b>2018</b> ,	1

578	Ring detector arrays for large depth of field scanning photoacoustic macroscopy. 2018,	1
577	Automated full-breast photoacoustic tomography with non-uniform illumination. 2018,	2
576	Thy1transgenic mice expressing the red fluorescent calcium indicator jRGECO1a for neuronal population imagingin vivo.	
575	In vitro and in vivo phasor analysis of stoichiometry and pharmacokinetics using near-infrared dyes.	1
574	Brain imaging for neural tissue health assessment. <b>2018</b> ,	
573	Optical properties of colorectal muscle in visible/NIR range. 2018,	3
572	The temporal correlation transfer simulation in a tissue model with anisotropic scattering patterns for the blood flow analyses. <b>2018</b> ,	
571	Microscale light management and inherent optical properties of intact corals studied with optical coherence tomography.	O
570	Measurements of the optical coefficients of the protoporphyrin IX endogenously producing yeast-based model in the visible and NIR. <b>2018</b> , 23, 1-5	
569	Reconstruction method for fluorescence molecular tomography based on L1-norm primal accelerated proximal gradient. <b>2018</b> , 23, 1-11	3
568	Spectral Contrast Optical Coherence Tomography Angiography Enables Single-Scan Vessel Imaging.	
567	Modified optical coefficient measurements using a single high-NA fiber with detection parameter changes at a tip. <b>2018</b> ,	
566	Determination optical properties of tissue-like phantoms using diffuse reflectance and transmittance spectroscopy. <b>2018</b> ,	3
565	Multipoint and large volume fiber photometry with a single tapered optical fiber implant.	O
564	Contact, high-resolution spatial diffuse reflectance imaging system for skin condition diagnosis. <b>2018</b> , 23, 1-9	O
563	Special Section Guest Editorial: Pioneer in Biomedical Optics: Introduction to the Special Section in Honor of Steven L. Jacques. <b>2018</b> , 23, 1-3	4
562	In Vivo Monitoring of Rare Circulating Tumor Cell and Cluster Dissemination in a Multiple Myeloma Xenograft Model.	1
561	Particle characterization using forward elastic light scattering. <b>2019</b> ,	

560	Redox imaging and optical coherence tomography of the respiratory ciliated epithelium. 2019, 24, 1-4	1
559	Reconstruction of Multiple-Scattering Complex Media by Iterative Optical Diffraction Tomography. <b>2019</b> ,	
558	The Effect of Optical Scattering on Infrared Heating. <b>2019</b> ,	
557	Metal surface detection using division-of-focal-plane imaging polarimetry. 2019,	
556	Long-term Brillouin imaging of live cells with reduced absorption-mediated damage at 660nm wavelength.	
555	Tissue Optics. <b>2019</b> , 1-15	1
554	In-vivo diffuse reflectance for bone boundary detection in orthopedic surgery. 2019,	
553	Optical Wireless Data Transfer Through Biotissues: Practical Evidence and Initial Results. <b>2019</b> , 191-205	3
552	Characterization of lymph node optical properties for phantom fabrication. 2019,	
551	Optimal design of combined ultrasound and multispectral photoacoustic deep tissue imaging devices using hybrid simulation platform. <b>2019</b> ,	2
550	Characterization of opto-acoustic color mapping for oxygen saturation of blood using biologically relevant phantoms. <b>2019</b> ,	1
549	Enhanced depth penetration by dual-axis optical coherence tomography. 2019,	
548	Computer assisted photoacoustic imaging guided device for safer percutaneous needle operations. <b>2019</b> ,	1
547	Accurate calculation and visualization of absorption dose for facial low-level light therapy. 2019,	
546	A method of further increasing treatment depth in dual thermal therapy. <b>2019</b> ,	
545	Pre-clinical validation of transrectal diffuse optical tomography for monitoring photocoagulation progression during photothermal therapy of prostate cancer. <b>2019</b> ,	
544	Photons transmission on thoracic tissues by Monte Carlo modeling based on the visible Chinese human dataset. <b>2019</b> ,	
543	A machine-learning model for quantitative characterization of human skin using photothermal radiometry and diffuse reflectance spectroscopy. <b>2019</b> ,	2

542	An optical method to detect tissue scattering: theory, experiments and biomedical applications. <b>2019</b> ,	2
541	Effects of probe parameters on photobiomdulation therapy for spinal cord injury: a numerical algorithm modelling study. <b>2019</b> ,	
540	The meat product quality control by a polarimetric method. 2019,	
539	In silico investigation of near-infrared light propagation in the joints of the human hand. 2019,	
538	Characterization of a multimodal endoscopically deployable veterinary spectroscopy and imaging probe to determine therapeutic response in a murine orthotopic tumor model. <b>2019</b> ,	
537	High spatial frequency structured light imaging texture analysis using Gabor filtering differentiates tumor from normal tissue subtypes. <b>2019</b> ,	
536	Do the iso-path-length points differ among semi-infinite, concave-cylindrical and convex-cylindrical geometries?. <b>2019</b> ,	Ο
535	1550-nm wavelength wafer-fused OP-VECSELs in flip-chip configuration. <b>2019</b> ,	
534	Heart-rate modulation of non-vascularized epidermis optical attenuation coefficient. 2019,	1
533	Control of Optical Clearing of Human Skin by Ellipsoidal Reflector Method. <b>2019</b> , 24, 6-13	
532	Cortical visual prosthesis: a detailed large-scale simulation study.	
531	Fluorescent Sp3 Defect-Tailored Carbon Nanotubes Enable NIR-II Single Particle Imaging in Live Brain Slices at Ultra-Low Excitation Doses.	1
530	Angular Photometry of Biological Tissue by Ellipsoidal Reflector Method. <b>2019</b> , 10, 160-168	1
529	Fluorescence spectroscopy approach for blood influence compensation. 2019,	
528	In vivo testing of a CMOS-based diffuse reflectance device for skin condition monitoring. 2019,	
527	Optical characteristics of human skin with hyperpigmentation caused by fluorinated pyrimidine anticancer agent. <b>2019</b> , 10, 3747-3759	1
526	Influence of healthy skin baseline on bruise dynamics parameters as assessed by optical methods. <b>2019</b> ,	1
525	Tumor growth monitoring using polarized light. 2019,	Ο

524	Orthogonal beam ballistic backscatter stimulated Raman microscopy. <b>2019</b> , 27, 22770-22786	
523	Theranostic cranial implant for hyperspectral light delivery and microcirculation imaging without scalp removal.	О
522	Diagnosis of inflammatory diseases of the paranasal sinuses using digital diaphanoscopy. <b>2019</b> ,	
521	Computational modeling of the photon transport, tissue heating, and cytochrome C oxidase absorption during transcranial near-infrared stimulation.	O
520	Development of a near-infrared spectroscopy interface able to assess oxygen recovery kinetics in the right and left sides of the pelvic floor. <b>2019</b> , 24, 1-5	0
519	Simulations for modeling the photothermal response of nerve tissue. <b>2019</b> ,	
518	Hybrid technique for characterization of human skin using a combined machine learning and inverse Monte Carlo approach. <b>2019</b> ,	1
517	Determination of optical properties of human tissues obtained from parotidectomy in the spectral range of 250 to 800 nm. <b>2019</b> ,	1
516	Intrinsic Optical Imaging of ECM Mechanics. <b>2020</b> , 165-202	1
515	Real-time photoacoustic sensing for photo-mediated ultrasound therapy. <b>2019</b> , 44, 4063-4066	6
514	LASER SURGERY FOR CUTANEOUS SIMPLE CAPILLARY MALFORMATIONS IN CHILDREN. <b>2019</b> , 22, 235-242	2
513	Spatio-angular filter (SAF) imaging device for deep interrogation of scattering media. <b>2019</b> , 10, 4656-4663	1
512	Physical Principles of Laser Ablation. <b>2020</b> , 7-18	
511	Small separation frequency-domain near-infrared spectroscopy for the recovery of tissue optical properties at millimeter depths. <b>2019</b> , 10, 5362-5377	1
510	Bionic 3D printed corals.	0
509	Quantitative Analysis of 1300-nm Three-photon Calcium Imaging in the Mouse Brain.	
508	Assessing spectral imaging of the human finger for detection of arthritis. <b>2019</b> , 10, 6555-6568	0
507	Real-time spectroscopic photoacoustic/ultrasound (PAUS) scanning with simultaneous fluence compensation and motion correction for quantitative molecular imaging.	

506	Engineered polymeric nanovehicles for drug delivery. <b>2020</b> , 16, 201-232	1
505	Monte Carlo Modeling of a Photoplethysmographic (PPG) in Individuals with Obesity. <b>2020</b> ,	1
504	Human Heart Model Rendering Based on BRDF Algorithm. 2020, 179-184	
503	Experimental integration of a spatial frequency domain spectroscopy and pulse cam system for quantifying changes in skin optical properties and vasculature among individuals with obesity. <b>2020</b>	
502	Using Spatial Frequency Domain Imaging (SFDI) to quantify physiological changes of patients undergoing radiotherapy for breast cancer treatment. <b>2020</b> ,	1
501	Evaluation of a model for deep tissue optogenetic stimulation. 2020,	
500	Intra-abdominal hypertension assessment based on Near Infra-Red reflectometry: New model and low-cost device. <b>2020</b> , 154, 107456	1
499	Wide-field optical spectroscopy system integrating reflectance and spatial frequency domain imaging to measure attenuation-corrected intrinsic tissue fluorescence in radical prostatectomy specimens. <b>2020</b> , 11, 2052-2072	2
498	Monte Carlo simulation of Raman light scattering and Multivariate Curve Resolution 🖾 lternating Least Squares for determination of changes in skin tissue during the development of malignant neoplasms. <b>2020</b> ,	
497	Compact and contactless reflectance confocal microscope for neurosurgery.	
496	Laser management for congenital dermal melanocytosis. <b>2020</b> , 23, 132-137	1
495	High-speed X-ray-induced luminescence computed tomography. <b>2020</b> , 13, e202000066	4
494	Preliminary experimental evaluation of microscopic imaging through thick biological tissues based on in-line phase-shift digital holography using near-infrared light. <b>2020</b> ,	1
493	Optical coherence tomography for thyroid pathology: 3D analysis of tissue microstructure. <b>2020</b> , 11, 4130-4149	1
492	Exclusive detection of cerebral hemodynamics in functional near-infrared spectroscopy by reflectance modulation of the scalp surface. <b>2020</b> , 25, 1-16	1
491	Exploiting scale-invariance: a top layer targeted inverse model for hyperspectral images of wounds. <b>2020</b> , 11, 5070-5091	1
490	Reconstruction of bi-dimensional images in Fourier-transform acousto-optic imaging. <b>2020</b> , 45, 4855-4858	3
489	Distribution of light inside three-dimensional scattering slabs: Comparison of radiative transfer and electromagnetic theory. <b>2021</b> , 277, 107987	1

488	Beer-Lambert law for optical tissue diagnostics: current state of the art and the main limitations. <b>2021</b> , 26,	6
487	Band selection for oxygenation estimation with multispectral/hyperspectral imaging <b>2022</b> , 13, 1224-1242	2
486	Self-synchronized reflection-mode acousto-optic imaging system utilizing nanosecond laser pulses <b>2021</b> , 12, 7297-7314	
485	Treatment of Nevus Spilus with dual-wavelength copper vapor laser. <b>2021</b> , 97, 100-106	
484	Lung tissue phantom mimicking pulmonary optical properties, relative humidity, and temperature: a tool to analyze the changes in oxygen gas absorption for different inflated volumes. <b>2021</b> , 27,	2
483	Label-free and interpretable hyperspectral imaging for intraoperative clinical applications. 2021,	
482	Electroceuticals for neural regenerative nanomedicine. <b>2020</b> , 213-257	1
481	Laser Light and Lightfissue Interaction. <b>2020</b> , 295-305	
480	voltage-sensitive dye imaging of mouse cortical activity with mesoscopic optical tomography. <b>2020</b> , 7, 041402	1
479	Light-harvesting in mesophotic corals is powered by a spatially efficient photosymbiotic system between coral host and microalgae.	O
478	Interaction of low-temperature atmospheric pressure plasma jet mixed with argon and air with living tissues. <b>2020</b> , 1697, 012044	1
477	Malignant cell characterization via mathematical analysis of bio impedance and optical properties. <b>2021</b> , 40, 65-83	O
476	Ultrasound-Guided Detection and Segmentation of Photoacoustic Signals from Bone Tissue In Vivo. <b>2021</b> , 11, 19	5
475	Rare-Earth-Doped Ceramic Nanoparticles for Transparency in the Biomedical Field. <b>2021</b> , 109-136	
474	An experimental and numerical modelling investigation of the optical properties of Intralipid using deep Raman spectroscopy. <b>2021</b> , 146, 7601-7610	0
473	TRINITY: A three-dimensional time-dependent radiative transfer code for in-vivo near-infrared imaging. <b>2022</b> , 277, 107948	1
472	Fundamentals of Lasers and Light Devices in Dermatology. <b>2020</b> , 1-52	1
471	Determination of the optical properties in transparent conductive electrodes based on an indium-tin oxide coating using the IAD method. <b>2019</b> ,	

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470	A Method of Computational Clinical Trial of a Nanosecond Pulsed Laser Skin Treatment Device by Numerical Simulation of Photothermal Damage. <b>2020</b> , 40, 301-308	
469	Fluorescence Labeling of Circulating Tumor Cells with Folate Receptor Targeted Molecular Probes for DiffuseIn VivoFlow Cytometry.	
468	Robust, accurate depth-resolved attenuation characterization in optical coherence tomography. <b>2020</b> , 11, 672-687	5
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203	Assessment of angle-dependent spectral distortion to develop accurate hyperspectral endoscopy. <b>2022</b> , 12,	
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173	Necessity of Anatomically Real Numerical Phantoms in Optical Metrology. <b>2022</b> , 1-22	O
172	X-ray triggered pea-shaped LuAG:Mn/Ca nano-scintillators and their applications for photodynamic therapy. <b>2022</b> , 10, 6380-6391	О
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170	Light-Tissue Interactions. <b>2022</b> , 169-221	О
169	Overview of Biophotonics. <b>2022</b> , 1-26	Ο
168	Demonstrating the Feasibility of Subepidermal Image Sensing for Hand Posture and Gesture Recognition. <b>2022</b> , 1-4	O
167	A Deep Learning Method for Motion Artifact Correction in Intravascular Photoacoustic Image Sequence. <b>2022</b> , 1-1	O
166	Multi-physics Analysis of Electromagnetic Wave Propagation and Photothermal Heating in Human Tissues at Terahertz and Optical Frequencies. <b>2022</b> ,	O
165	Differentiation of different stages of brain tumor infiltration using optical coherence tomography: Comparison of two systems and histology. 12,	1

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162	Dynamic change in optical properties of a nanoparticle embedded tumor phantom for plasmonic photothermal cancer therapeutics.	O
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160	Quantum diagnosis of cancer with heralded single photons. <b>2022</b> , 19, 105603	O
159	Refractive Index of Hemoglobin Analysis: A Comparison of Alternating Conditional Expectations and Computational Intelligence Models. <b>2022</b> , 7, 33769-33782	O
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156	Preclinical shortwave infrared tumor screening and resection via pHLIP ICG under ambient lighting conditions.	0
155	In Silico Investigation of SNR and Dermis Sensitivity for Optimum Dual-Channel Near-Infrared Glucose Sensor Designs for Different Skin Colors. <b>2022</b> , 12, 805	O
154	Near-infrared diffuse in vivo flow cytometry. <b>2022</b> , 27,	0
153	Large scale interrogation of retinal cell functions by 1-photon light-sheet microscopy.	O
152	A novel 1726-nm laser system for safe and effective treatment of acne vulgaris.	0
151	Lateral Heterostructured VisMIR Photodetectors with Multimodal Detection for Rapid and Precise Classification of Glioma.	O
150	Second-generation dual-channel visible light optical coherence tomography enables wide-field, full-range, and shot-noise limited retinal imaging.	O
149	Multispectral near-infrared imaging for wetness estimation. <b>2022</b> , 39, 1958	O
148	Soft nano and microstructures for the photomodulation of cellular signaling and behavior. <b>2022</b> , 190, 114554	O
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146	Mesoporous, anisotropic nanostructures from bioinspired polymeric catecholamine neurotransmitters and their potential application as photoacoustic imaging agents.	О
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144	In vivo fluorescence imaging: success in preclinical imaging paves the way for clinical applications. <b>2022</b> , 20,	3
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141	Skin colour affects the accuracy of medical oxygen sensors. <b>2022</b> , 610, 449-451	1
140	Intraoperative Tumor Detection Using Pafolacianine. <b>2022</b> , 23, 12842	О
139	EZ Clear for simple, rapid, and robust mouse whole organ clearing. 11,	O
138	Structure functions for optical waves in complex medium of turbulent biological tissues.	О
137	Molecular and Cellular Markers in Chlorhexidine-Induced Peritoneal Fibrosis in Mice. <b>2022</b> , 10, 2726	1
136	High-Q electro-optic modulator for miniaturized wireless medical implants.	0
135	Excitation-based fully connected network for precise NIR-II fluorescence molecular tomography.	O
134	Non-invasive optical monitoring of human lungs:Monte Carlo modeling of photon migration in Visible Chinese Human and experimental test on human.	1
133	Experimental investigation and simultaneous modeling of the effect of methylene blue addition to cancer tumors in photodynamic therapy by digital holography. <b>2022</b> , 40, 103153	O
132	Photonic and magnetic materials for on-demand local drug delivery. <b>2022</b> , 191, 114584	1
131	Fast calculation of spectral optical properties and pigment content detection in human normal and pathological kidney. <b>2023</b> , 286, 122002	1
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127	Single-shot measurement of wavelength-resolved state of polarization dynamics in ultrafast lasers using dispersed division-of-amplitude.	O
126	Spatially multiplexed dielectric tensor tomography.	O
125	interferometric Diffusing Wave Spectroscopy imaging with an electronically variable time-of-flight filter.	O
124	Use of Hypoxic Respiratory Challenge for Differentiating Alzheimer Disease and Wild-Type Mice Non-Invasively: A Diffuse Optical Spectroscopy Study. <b>2022</b> , 12, 1019	0
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119	Assessing jugular venous compliance with optical hemodynamic imaging by modulating intrathoracic pressure. <b>2022</b> , 27,	O
118	Recent Progress and Trends in X-ray-Induced Photodynamic Therapy with Low Radiation Doses.	O
117	A preliminary study of a system based on hysteroscopy for detecting intracavitary photoacoustic signals. <b>2022</b> ,	O
116	Biodegradable Electronics. <b>2023</b> , 1019-1041	O
115	Recent advances in photoacoustic blind source spectral unmixing approaches and the enhanced detection of endogenous tissue chromophores. 2,	2
114	Active tissue adhesive activates mechanosensors and prevents muscle atrophy.	O
113	Diffuse reflection spectroscopy at the fingertip:design and performance of a compact side-firingprobe for tissue discrimination during colorectalcancer surgery.	O
112	Geometry design for a fully insertable glucose biosensor with multimodal optical readout. 2022, 27,	O
111	A biophotonic platform for quantitative analysis in the spatial, spectral, polarimetric, and goniometric domains. <b>2022</b> , 93, 113709	0

110	Magnetic resonance imaging for non-invasive measurement of plastic ingestion in marine wildlife. <b>2022</b> , 185, 114334	О
109	Chapter 12. Imaging in Scaffolds. <b>2022</b> , 304-341	O
108	Confocal Microscopy. <b>2022</b> , 105-138	1
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106	Photoacoustics spectral analysis for in vivo detection of collagen contents in cancers. 2022,	О
105	Impact of skin pigmentation on photoacoustic imaging using linear array transducer: a pilot in vivo study. <b>2022</b> ,	О
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103	Multivariate Analysis of Optoelectronic Detection Units for the Maximization of Photon Interaction with Implanted Sensing Material. <b>2022</b> ,	О
102	Study of the Sensitivity of D-Shaped Optical Fiber Sensor Based on Surface Plasmon Resonance to Detect the Refractive Index Changes in the Human Blood.	О
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100	Intraoperative Needle Tip Tracking with an Integrated Fibre-Optic Ultrasound Sensor. <b>2022</b> , 22, 9035	О
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98	Affordable Spectral Measurements of Translucent Materials. <b>2022</b> , 41, 1-13	О
97	Near-Infrared Windows I and II Phosphors for Theranostic Applications: Spectroscopy, Bioimaging, and Light-Emitting Diode Photobiomodulation. 2202061	О
96	Sound out the impaired perfusion: Photoacoustic imaging in preclinical ischemic stroke. 16,	О
95	The Coming of Age of Neodymium: Redefining Its Role in Rare Earth Doped Nanoparticles.	О
94	Imaging perfusion changes in oncological clinical applications by hyperspectral imaging: a literature review. <b>2022</b> , 56, 420-429	1
93	Rapid extraction of skin physiological parameters from hyperspectral images using machine learning.	O

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91	Ultrasound-modulation of near infrared light is used to detect foreign bodies buried in dense turbid media. <b>2022</b> ,	O
90	Compression Optical Coherence Elastography for Assessing Elasticity of the Vaginal Wall under Prolapse after Neodymium Laser Treatment. <b>2023</b> , 10, 6	1
89	The Associations between Diode Laser (810 nm) Therapy and Chronic Wound Healing and Pain Relief: Light into the Chronic Wound Patient's Life.	O
88	Image Decomposition Technique Based on Near-Infrared Transmission. <b>2022</b> , 8, 322	O
87	In Vivo and In Silico Study of Photodynamic Necrosis Volume in Rat Liver. <b>2022</b> , 9, 993	O
86	Mn 5+ Lifetime-Based Thermal Imaging in the Optical Transparency Windows Through Skin-Mimicking Tissue Phantom. 2202366	O
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84	Measurement of tissue optical properties in a wide spectral range: a review [Invited]. 2023, 14, 249	1
83	Multilayered organic semiconductors for high performance optoelectronic stimulation of cells.	O
82	Non-invasive photoacoustic computed tomography of rat heart anatomy and function. 2023, 12,	0
81	Evaluating the neural underpinnings of motivation for walking exercise.	O
80	Non-Invasive In Vivo Estimation of HbA1c Using Monte Carlo Photon Propagation Simulation: Application of Tissue-Segmented 3D MRI Stacks of the Fingertip and Wrist for Wearable Systems. <b>2023</b> , 23, 540	O
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78	PPV <b>B</b> CBM bulk heterojunction organic solar cell to power modern pacemakers.	O
77	Nonlinear polarization tensor measurement with a vectorial complex field in second-harmonic-generation microscopy. <b>2023</b> , 107,	O
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73	Near-infrared luminescence high-contrast in vivo biomedical imaging. <b>2023</b> , 1, 60-78	1
72	Noninvasive optical monitoring of pulmonary embolism: a Monte Carlo study on visible Chinese human thoracic tissues. <b>2023</b> , 28,	O
71	Overestimation of Oxygen Saturation Measured by Pulse Oximetry in Hypoxemia. Part 1: Effect of Optical Pathlengths-Ratio Increase. <b>2023</b> , 23, 1434	O
70	Antimonene-Coated Uniform-Waist Tapered Fiber Optic Surface Plasmon Resonance Biosensor for the Detection of Cancerous Cells: Design and Optimization. <b>2023</b> , 8, 4627-4638	О
69	Linking the Monte Carlo radiative transfer algorithm to the radiative transfer equation. 2023,	O
68	Improving two-photon excitation microscopy for sharper and faster biological imaging. 2023,	O
67	VIS-NIR Diffuse Reflectance Spectroscopy System with Self-Calibrating Fiber-Optic Probe: Study of Perturbation Resistance. <b>2023</b> , 13, 457	O
66	Cerebrovascular impedance estimation with near-infrared and diffuse correlation spectroscopy. <b>2023</b> , 10,	O
65	Contribution of Intravital Neuroimaging to Study Animal Models of Multiple Sclerosis.	O
64	Collagen Fibers Anisotropy Characterization by Polarized Photoacoustic Imaging for Just-in-time Quantitative Evaluation of Burn Severity.	O
63	Machine Learning Diffuse Optical Tomography Using Extreme Gradient Boosting and Genetic Programming. <b>2023</b> , 10, 382	O
62	Detectable depth of unexposed parathyroid glands using near-infrared autofluorescence imaging in thyroid surgery. 14,	O
61	Near-infrared phototheranostics of tumors with protoporphyrin IX and chlorin e6 photosensitizers. <b>2023</b> , 103566	O
60	Emerging potential of phototherapy in management of symptomatic oral lichen planus: A systematic review of randomised controlled clinical trials.	О
59	Remote control of transgene expression using noninvasive near-infrared irradiation. <b>2023</b> , 242, 112697	O
58	Analytical solution of heat-transfer in central part of tibia bone tissue using non-Fourier heat equation with a laser heat source. <b>2023</b> , 18, 101057	O
57	Digital image correlation by natural textures on biological skin. <b>2023</b> , 165, 107547	O

56	Comparison of Near-Infrared Imaging Agents Targeting the PTPmu Tumor Biomarker.	O
55	In situ synthesized nanozyme for photoacoustic-imaging-guided photothermal therapy and tumor hypoxia relief. <b>2023</b> , 26, 106066	O
54	Intra-operative brain tumor detection with deep learning-optimized hyperspectral imaging. 2023,	1
53	Ablation of porcine subcutaneous fat and porcine aorta tissues by a burst-mode nanosecond-pulsed laser at 355 nm.	O
52	Activating One/Two-Photon Excited Red Fluorescence on Carbon Dots: Emerging n-éPhoton Transition Induced by Amino Protonation. <b>2023</b> , 10,	O
51	Non-invasive treatment of ischemia/reperfusion injury: Effective transmission of therapeutic near-infrared light into the human brain through soft skin-conforming silicone waveguides.	O
50	Optofluidic adaptive optics in multi-photon microscopy. <b>2023</b> , 14, 1562	O
49	Bio-Heat Transfer and Monte Carlo Measurement of Near-Infrared Transcranial Stimulation of Human Brain.	O
48	Electromagnetic enhancement effect with hyperbolic metasurface. 2023, 276, 170656	O
47	Investigation of the Optical Properties of Indium Tin Oxide Thin Films by Double Integration Sphere Combined with the Numerical IAD Method. <b>2023</b> , 16, 1425	O
46	X-ray Activated Nanoplatforms for Deep Tissue Photodynamic Therapy. <b>2023</b> , 13, 673	0
45	Flexible organic solar cell to power modern cardiac pacemakers: Versatile for all age groups, skin types and genders. <b>2023</b> , 98, 035018	O
44	Dependence of the Registered Blood Flow in Incoherent Optical Fluctuation Flowmetry on the Mean Photon Path Length in a Tissue. <b>2023</b> , 10, 190	1
43	Fluorescent Imaging In Vivo. <b>2023</b> , 597-647	O
42	The Involvement of Photobiology in Contemporary Dentistry A Narrative Review. 2023, 24, 3985	O
41	Pulsed Photothermal Radiometric Depth Profiling of Bruises by 532 nm and 1064 nm Lasers. <b>2023</b> , 23, 2196	O
40	Modulation transfer function variation through anisotropic turbulence in biological tissue. <b>2023</b> , 40, 807	0
39	Fast estimation of adult cerebral blood content and oxygenation with hyperspectral time-resolved near-infrared spectroscopy. 17,	O

38	In Vivo Deep-Brain 3- and 4-Photon Fluorescence Imaging of Subcortical Structures Labeled by Quantum Dots Excited at the 2200 nm Window. <b>2023</b> , 17, 3686-3695	0
37	Increased light scattering in electrically stimulated beef longissimus muscle fibres contributes to the observed meat colour at grading. <b>2023</b> ,	O
36	Design and Validation of a Custom-Made Hyperspectral Microscope Imaging System for Biomedical Applications. <b>2023</b> , 23, 2374	0
35	Quantitative photoacoustic tomography with light fluence compensation based on radiance Monte Carlo model. <b>2023</b> , 68, 065009	O
34	Melanoma and Nevi Subtype Histopathological Characterization with Optical Coherence Tomography. <b>2023</b> , 13, 625	O
33	A Fiber Optic Sensor for Monitoring the Spectral Alterations and Depth in Ex Vivo and In Vivo Cryosurgery. <b>2023</b> , 23, 2690	O
32	Improving Titanium Implant Stability with Photobiomodulation: A Review and Meta-Analysis of Irradiation Parameters. <b>2023</b> , 41, 93-103	O
31	Dual Behavior Regulation: Tether-Free Deep-Brain Stimulation by Photothermal and Upconversion Hybrid Nanoparticles.	O
30	Visualization of Organ-Specific Lymphatic Growth: An Efficient Approach to Labeling Molecular Markers in Cleared Tissues. <b>2023</b> , 24, 5075	O
29	Multiparametric Remote Investigation in the near-IR through Optical Fiber for In Situ Measurements. <b>2023</b> , 23, 2911	O
28	A computational framework for investigating the feasibility of focusing light in biological tissue via photoacoustic wavefront shaping. <b>2023</b> ,	O
27	Mueller matrix imaging polarimeter at the wavelength of 265 nm. <b>2023</b> , 62, 2945	Ο
26	Laser interstitial thermal therapy of lung lesions near large vessels: a numerical study. <b>2023</b> , 9, 035022	O
25	Real-time monitoring of NIR-triggered drug release from phase-changeable nanodroplets by photoacoustic/ultrasound imaging. <b>2023</b> , 30, 100474	Ο
24	Absorption and reduced scattering coefficients in epidermis and dermis from a Swedish cohort study. <b>2023</b> ,	0
23	Fluorescence mesoscopic imaging of whole lymph nodes for intraoperative sentinel lymph node biopsy procedures. <b>2023</b> ,	Ο
22	Tracking early tuberous sclerosis complex diseased organoid development with quantitative oblique back-illumination microscopy. <b>2023</b> ,	0
21	Quantitative phase imaging of sickle cell disease effects on mouse brain vasculature using quantitative oblique back-illumination microscopy. <b>2023</b> ,	Ο

20	Optical biosensing systems for a biological living body.	Ο
19	Hyperspectral imaging to accurately segment skin erythema and hyperpigmentation in cutaneous chronic graft-versus-host disease.	O
18	Real-time and accurate estimation ex vivo of four basic optical properties from thin tissue based on a cascade forward neural network. <b>2023</b> , 14, 1818	О
17	Assessing the development of mental fatigue during simulated flights with concurrent EEG-fNIRS measurement. <b>2023</b> , 13,	O
16	Experimental and Comparative Study of Optical Properties of Different Phantoms by the Kubelkal Munk Function Approach. <b>2023</b> , 90, 198-205	0
15	Deep learning-based optical approach for skin analysis of melanin and hemoglobin distribution. <b>2023</b> , 28,	O
14	Molecular breast cancer subtype identification using photoacoustic spectral analysis and machine learning at the biomacromolecular level. <b>2023</b> , 30, 100483	0
13	Modeling optical fluence and diffuse reflectance distribution in normal and cancerous breast tissues exposed to planar and Gaussian NIR beam shapes using Monte Carlo simulation. <b>2023</b> , 38,	O
12	Partially coherent broadband 3D optical transfer functions with arbitrary temporal and angular power spectra. <b>2023</b> , 8, 041301	0
11	Hyperspectral imaging of lipids in biological tissues using near-infrared and shortwave infrared transmission mode: A pilot study.	O
10	Lights and Dots toward TherapyCarbon-Based Quantum Dots as New Agents for Photodynamic Therapy. <b>2023</b> , 15, 1170	0
9	Information transport and limits of optical imaging in the highly diffusive regime. 2023, 5,	O
8	Quantitative Endogenous Fluorescence Analysis Discriminates Glioblastoma Tumor through Visible and NIR Excitation. <b>2023</b> , 10, 434	0
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