Antonio Pifferi

List of Publications by Year
in descending order

443	9,225	34105 52	58581 82
papers	citations	h-index	g-index

446	446	446	4286
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Time domain functional NIRS imaging for human brain mapping. NeuroImage, 2014, 85, 28-50.	4.2	372
2	A solid tissue phantom for photon migration studies. Physics in Medicine and Biology, 1997, 42, 1971-1979.	3.0	249
3	Determination of visible near-IR absorption coefficients of mammalian fat using time- and spatially resolved diffuse reflectance and transmission spectroscopy. Journal of Biomedical Optics, 2005, 10, 054004.	2.6	193
4	In vivo absorption and scattering spectroscopy of biological tissues. Photochemical and Photobiological Sciences, 2003, 2, 124.	2.9	188
5	Performance assessment of photon migration instruments: the MEDPHOT protocol. Applied Optics, 2005, 44, 2104.	2.1	185
6	New frontiers in time-domain diffuse optics, a review. Journal of Biomedical Optics, 2016, 21, 091310.	2.6	181
7	In vivooptical characterization of human tissues from 610 to 1010 nm by time-resolved reflectance spectroscopy. Physics in Medicine and Biology, 2001, 46, 2227-2237.	3.0	169
8	Nondestructive quantification of chemical and physical properties of fruits by time-resolved reflectance spectroscopy in the wavelength range 650â€“1000 nm. Applied Optics, 2001, 40, 538.	2.1	146
9	Time-resolved and continuous wave NIR reflectance spectroscopy to predict soluble solids content and firmness of pear. Postharvest Biology and Technology, 2008, 47, 68-74.	6.0	145
10	Bulk optical properties and tissue components in the female breast from multiwavelength time-resolved optical mammography. Journal of Biomedical Optics, 2004, 9, 1137.	2.6	133
11	Determination of reference values for optical properties of liquid phantoms based on Intralipid and India ink. Biomedical Optics Express, 2014, 5, 2037.	2.9	133
12	Time-Resolved Reflectance at Null Source-Detector Separation: Improving Contrast and Resolution in Diffuse Optical Imaging. Physical Review Letters, 2005, 95, 078101.	7.8	122
13	Optical biopsy of bone tissue: a step toward the diagnosis of bone pathologies. Journal of Biomedical Optics, 2004, 9, 474.	2.6	120
14	Time-Resolved Diffuse Reflectance Using Small Source-Detector Separation and Fast Single-Photon Gating. Physical Review Letters, 2008, 100, 138101.	7.8	119
15	Clinical trial of time-resolved scanning optical mammography at 4 wavelengths between 683 and 975 nm. Journal of Biomedical Optics, 2004, 9, 464.	2.6	115
16	Time-resolved optical mammography between 637 and 985 nm: clinical study on the detection and identification of breast lesions. Physics in Medicine and Biology, 2005, 50, 2469-2488.	3.0	113
17	Experimental test of theoretical models for time-resolved reflectance. Medical Physics, 1996, 23, 1625-1633.	3.0	111
18	Multi-channel time-resolved system for functional near infrared spectroscopy. Optics Express, 2006, 14, 5418.	3.4	110

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19	Noninvasive absorption and scattering spectroscopy of bulk diffusive media: An application to the optical characterization of human breast. Applied Physics Letters, 1999, 74, 874-876.	3.3	108
20	Spectroscopic time-resolved diffuse reflectance and transmittance measurements of the female breast at different interfiber distances. Journal of Biomedical Optics, 2004, 9, 1143.	2.6	106
21	Time-Resolved Reflectance Spectroscopy Applied to the Nondestructive Monitoring of the Internal Optical Properties in Apples. Applied Spectroscopy, 2001, 55, 1368-1374.	2.2	104
22	Performance assessment of time-domain optical brain imagers, part 1: basic instrumental performance protocol. Journal of Biomedical Optics, 2014, 19, 086010.	2.6	101
23	Towards next-generation time-domain diffuse optics for extreme depth penetration and sensitivity. Biomedical Optics Express, 2015, 6, 1749.	2.9	100
24	Diffuse optical characterization of collagen absorption from 500 to 1700Ânm. Journal of Biomedical Optics, 2017, 22, 015006.	2.6	95
25	Accelerated Monte Carlo models to simulate fluorescence spectra from layered tissues. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2003, 20, 714.	1.5	94
26	Seven-wavelength time-resolved optical mammography extending beyond 1000 nm for breast collagen quantification. Optics Express, 2009, 17, 15932.	3.4	91
27	Determination of VIS- NIR absorption coefficients of mammalian fat, with time- and spatially resolved diffuse reflectance and transmission spectroscopy. , 2004, , SF4.		90
28	Fast-gated single-photon counting technique widens dynamic range and speeds up acquisition time in time-resolved measurements. Optics Express, 2011, 19, 10735.	3.4	89
29	Characterization of female breast lesions from multi-wavelength time-resolved optical mammography. Physics in Medicine and Biology, 2005, 50, 2489-2502.	3.0	88
30	Performance assessment of time-domain optical brain imagers, part 2: nEUROPt protocol. Journal of Biomedical Optics, 2014, 19, 086012.	2.6	85
31	Fluorescence Lifetime Imaging of Experimental Tumors in Hematoporphyrin Derivativeâ€Sensitized Mice. Photochemistry and Photobiology, 1997, 66, 229-236.	2.5	84
32	Thereâ€™s plenty of light at the bottom: statistics of photon penetration depth in random media. Scientific Reports, 2016, 6, 27057.	3.3	82
33	Fast-Gated Single-Photon Avalanche Diode for Wide Dynamic Range Near Infrared Spectroscopy. IEEE Journal of Selected Topics in Quantum Electronics, 2010, 16, 1023-1030.	2.9	81
34	Use of a nonlinear perturbation approach for in vivo breast lesion characterization by multiwavelength time-resolved optical mammography. Optics Express, 2003, 11, 853.	3.4	79
35	Four-wavelength time-resolved optical mammography in the 680 980-nm range. Optics Letters, 2003, 28, 1138.	3.3	77
36	Noninvasive assessment of breast cancer risk using time-resolved diffuse optical spectroscopy. Journal of Biomedical Optics, 2010, 15, 060501.	2.6	76

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37	Fully automated time domain spectrometer for the absorption and scattering characterization of diffusive media. Review of Scientific Instruments, 2007, 78, 053103.	1.3	73
38	Bilateral prefrontal cortex oxygenation responses to a verbal fluency task: a multichannel time-resolved near-infrared topography study. Journal of Biomedical Optics, 2005, 10, 011012.	2.6	70
39	Absorption of collagen: effects on the estimate of breast composition and related diagnostic implications. Journal of Biomedical Optics, 2007, 12, 014021.	2.6	70
40	A model for the softening of nectarines based on sorting fruit at harvest by time-resolved reflectance spectroscopy. Postharvest Biology and Technology, 2006, 39, 223-232.	6.0	69
41	Fast silicon photomultiplier improves signal harvesting and reduces complexity in time-domain diffuse optics. Optics Express, 2015, 23, 13937.	3.4	68
42	Preliminary evaluation of two fluorescence imaging methods for the detection and the delineation of basal cell carcinomas of the skin. , 2000, 26, 76-82.		67
43	Nondestructive detection of brown heart in pears by time-resolved reflectance spectroscopy. Postharvest Biology and Technology, 2002, 25, 87-97.	6.0	66
44	Broadband (600â€“1350 nm) Time-Resolved Diffuse Optical Spectrometer for Clinical Use. IEEE Journal of Selected Topics in Quantum Electronics, 2016, 22, 406-414.	2.9	66
45	Diffuse optical spectroscopy of breast tissue extended to 1100â€‚nm. Journal of Biomedical Optics, 2009, 14, 054030.	2.6	65
46	Calibration of scattering and absorption properties of a liquid diffusive medium at NIR wavelengths. Time-resolved method. Optics Express, 2007, 15, 6589.	3.4	64
47	Time-resolved reflectance: a systematic study for application to the optical characterization of tissues. IEEE Journal of Quantum Electronics, 1994, 30, 2421-2430.	1.9	63
48	Mapping of calf muscle oxygenation and haemoglobin content during dynamic plantar flexion exercise by multi-channel time-resolved near-infrared spectroscopy. Physics in Medicine and Biology, 2004, 49, 685-699.	3.0	63
49	Light propagation in dry and wet softwood. Optics Express, 2008, 16, 9895.	3.4	62
50	Real-time method for fitting time-resolved reflectance and transmittance measurements with a Monte Carlo model. Applied Optics, 1998, 37, 2774.	2.1	59
51	Effects of the menstrual cycle on the red and near-infrared optical properties of the human breast. Photochemistry and Photobiology, 2000, 72, 383-91.	2.5	59
52	Compact tissue oximeter based on dual-wavelength multichannel time-resolved reflectance. Applied Optics, 1999, 38, 3670.	2.1	56
53	Time-resolved single-photon detection module based on silicon photomultiplier: A novel building block for time-correlated measurement systems. Review of Scientific Instruments, 2016, 87, 073101.	1.3	56
54	Fluorescence lifetime imaging: an application to the detection of skin tumors. IEEE Journal of Selected Topics in Quantum Electronics, 1999, 5, 923-929.	2.9	55

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55	Portable, large-bandwidth time-resolved system for diffuse optical spectroscopy. Optics Express, 2007, 15, 14482.	3.4	52
56	Time-resolved diffuse optical tomography using fast-gated single-photon avalanche diodes. Biomedical Optics Express, 2013, 4, 1351.	2.9	52
57	Estimate of tissue composition in malignant and benign breast lesions by time-domain optical mammography. Biomedical Optics Express, 2014, 5, 3684.	2.9	50
58	Non-invasive optical estimate of tissue composition to differentiate malignant from benign breast lesions: A pilot study. Scientific Reports, 2017, 7, 40683.	3.3	50
59	Time domain diffuse correlation spectroscopy with a high coherence pulsed source: in vivo and phantom results. Biomedical Optics Express, 2017, 8, 5311.	2.9	50
60	Time-resolved imaging on a realistic tissue phantom: Î¼sâ€² and Î¼a images versus time-integrated images. Applied Optics, 1996, 35, 4533.	2.1	49
61	Time-Resolved Diffuse Optical Spectroscopy up to 1700 nm by Means of a Time-Gated InGaAs/InP Single-Photon Avalanche Diode. Applied Spectroscopy, 2012, 66, 944-950.	2.2	48
62	In-vivo multilaboratory investigation of the optical properties of the human head. Biomedical Optics Express, 2015, 6, 2609.	2.9	48
63	Spatial resolution in depth for time-resolved diffuse optical tomography using short source-detector separations. Biomedical Optics Express, 2015, 6, 1.	2.9	47
64	Nanosecond time-resolved emission spectroscopy from silicon implanted and annealed SiO2 layers. Applied Physics Letters, 1997, 70, 348-350.	3.3	46
65	Phantom validation and in vivo application of an inversion procedure for retrieving the optical properties of diffusive layered media from time-resolved reflectance measurements. Optics Letters, 2004, 29, 2037.	3.3	46
66	Non-contact time-resolved diffuse reflectance imaging at null source-detector separation. Optics Express, 2012, 20, 283.	3.4	46
67	Mechanically switchable solid inhomogeneous phantom for performance tests in diffuse imaging and spectroscopy. Journal of Biomedical Optics, 2015, 20, 121304.	2.6	45
68	Probe-hosted silicon photomultipliers for time-domain functional near-infrared spectroscopy: phantom andin vivotests. Neurophotonics, 2016, 3, 045004.	3.3	45
69	In vivo time-resolved reflectance spectroscopy of the human forehead. Applied Optics, 2007, 46, 1717.	2.1	43
70	Brain and Muscle near Infrared Spectroscopy/Imaging Techniques. Journal of Near Infrared Spectroscopy, 2012, 20, 15-27.	1.5	43
71	BabyLux device: a diffuse optical system integrating diffuse correlation spectroscopy and time-resolved near-infrared spectroscopy for the neuromonitoring of the premature newborn brain. Neurophotonics, 2019, 6, 1.	3.3	43
72	A Compact Two-Wavelength Time-Domain NIRS System Based on SiPM and Pulsed Diode Lasers. IEEE Photonics Journal, 2017, 9, 1-14.	2.0	42

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73	Time-resolved spectrophotometer for turbid media based on supercontinuum generation in a photonic crystal fiber. Optics Letters, 2004, 29, 2405.	3.3	41
74	Non-contact in vivo diffuse optical imaging using a time-gated scanning system. Biomedical Optics Express, 2013, 4, 2257.	2.9	41
75	Phantoms for diffuse optical imaging based on totally absorbing objects, part 1: basic concepts. Journal of Biomedical Optics, 2013, 18, 066014.	2.6	41
76	Phantoms for diffuse optical imaging based on totally absorbing objects, part 2: experimental implementation. Journal of Biomedical Optics, 2014, 19, 076011.	2.6	40
77	Selection Models for the Internal Quality of Fruit, based on Time Domain Laser Reflectance Spectroscopy. Biosystems Engineering, 2004, 88, 313-323.	4.3	39
78	Breast Tissue Composition and Its Dependence on Demographic Risk Factors for Breast Cancer: Non-Invasive Assessment by Time Domain Diffuse Optical Spectroscopy. PLoS ONE, 2015, 10, e0128941.	2.5	39
79	SPECTROSCOPIC AND PHOTOACOUSTIC STUDIES OF HYPERICIN EMBEDDED IN LIPOSOMES AS A PHOTORECEPTOR MODEL*. Photochemistry and Photobiology, 1995, 62, 199-204.	2.5	38
80	Quantification by random walk of the optical parameters of nonlocalized abnormalities embedded within tissuelike phantoms. Optics Letters, 2000, 25, 951.	3.3	37
81	Time-Domain Broadband near Infrared Spectroscopy of the Female Breast: A Focused Review from Basic Principles to Future Perspectives. Journal of Near Infrared Spectroscopy, 2012, 20, 223-235.	1.5	37
82	Single-fiber diffuse optical time-of-flight spectroscopy. Optics Letters, 2012, 37, 2877.	3.3	36
83	Time-resolved reflectance spectroscopy nondestructively reveals structural changes in â€˜Pink LadyÂ®â€™ apples during storage. Procedia Food Science, 2011, 1, 81-89.	0.6	35
84	Effects of time-gated detection in diffuse optical imaging at short source-detector separation. Journal Physics D: Applied Physics, 2015, 48, 045401.	2.8	35
85	Novel method for depth-resolved brain functional imaging by time-domain NIRS. Proceedings of SPIE, 2007, 6629, 59.	0.8	34
86	Determination of the optical properties of anisotropic biological media using an isotropic diffusion model. Journal of Biomedical Optics, 2007, 12, 014026.	2.6	34
87	Time-Resolved Optical Spectroscopy of Wood. Applied Spectroscopy, 2008, 62, 569-574.	2.2	34
88	Functional tomography using a time-gated ICCD camera. Biomedical Optics Express, 2011, 2, 705.	2.9	34
89	Tumor detection in mice by measurement of fluorescence decay time matrices. Optics Letters, 1995, 20, 2553.	3.3	33
90	Time-resolved optical imaging through turbid media using a fast data acquisition system based on a gated CCD camera. Journal Physics D: Applied Physics, 2003, 36, 1675-1681.	2.8	33

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91	Optical characterization of porcine tissues from various organs in the 650â€“1100â€…nm range using time-domain diffuse spectroscopy. Biomedical Optics Express, 2020, 11, 1697.	2.9	33
92	Diffuse Optical Techniques Applied to Wood Characterisation. Journal of Near Infrared Spectroscopy, 2013, 21, 259-268.	1.5	32
93	DETECTION OF INTERNAL QUALITY IN KIWI WITH TIME-DOMAIN DIFFUSE REFLECTANCE SPECTROSCOPY. Applied Engineering in Agriculture, 2004, 20, 223-230.	0.7	31
94	Optical identification of subjects at high risk for developing breast cancer. Journal of Biomedical Optics, 2013, 18, 060507.	2.6	31
95	Solid phantom recipe for diffuse optics in biophotonics applications: a step towards anatomically correct 3D tissue phantoms. Biomedical Optics Express, 2019, 10, 2090.	2.9	31
96	Wearable and wireless time-domain near-infrared spectroscopy system for brain and muscle hemodynamic monitoring. Biomedical Optics Express, 2020, 11, 5934.	2.9	31
97	Frequency offset Raman spectroscopy (FORS) for depth probing of diffusive media. Optics Express, 2017, 25, 4585.	3.4	30
98	Liquid phantoms for near-infrared and diffuse correlation spectroscopies with tunable optical and dynamic properties. Biomedical Optics Express, 2018, 9, 2068.	2.9	30
99	Imaging with diffusing light: an experimental study of the effect of background optical properties. Applied Optics, 1998, 37, 3564.	2.1	29
100	Time-resolved DNA-microarray reading by an intensified CCD for ultimate sensitivity. Optics Letters, 2000, 25, 1648.	3.3	29
101	Liquid phantom for investigating light propagation through layered diffusive media. Optics Express, 2004, 12, 2102.	3.4	29
102	Miniaturized pulsed laser source for time-domain diffuse optics routes to wearable devices. Journal of Biomedical Optics, 2017, 22, 1.	2.6	29
103	Imaging of optical inhomogeneities in highly diffusive media: Discrimination between scattering and absorption contributions. Applied Physics Letters, 1996, 69, 4162-4164.	3.3	28
104	Reconstruction of absorber concentrations in a two-layer structure by use of multidistance time-resolved reflectance spectroscopy. Optics Letters, 2001, 26, 1963.	3.3	28
105	Spectrally Resolved Single-Photon Timing of Silicon Photomultipliers for Time-Domain Diffuse Spectroscopy. IEEE Photonics Journal, 2015, 7, 1-12.	2.0	28
106	Do shorter wavelengths improve contrast in optical mammography?. Physics in Medicine and Biology, 2004, 49, 1203-1215.	3.0	27
107	Afterpulse-like noise limits dynamic range in time-gated applications of thin-junction silicon single-photon avalanche diode. Applied Physics Letters, 2012, 100, 241111.	3.3	27
108	Effects of the Menstrual Cycle on the Red and Near-infrared Optical Properties of the Human BreastÂ¶. Photochemistry and Photobiology, 2000, 72, 383.	2.5	26

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109	MEALINESS DETECTION IN APPLES USING TIME RESOLVED REFLECTANCE SPECTROSCOPY. Journal of Texture Studies, 2005, 36, 439-458.	2.5	26
110	Time-domain diffuse optical tomography using silicon photomultipliers: feasibility study. Journal of Biomedical Optics, 2016, 21, 116002.	2.6	25
111	The antitumour activity of alkylating agents is not correlated with the levels of glutathione, glutathione transferase and O6-alkylguanine-DNA-alkyltransferase of human tumour xenografts. European Journal of Cancer, 1998, 34, 1749-1755.	2.8	23
112	Effects of photodynamic therapy on the absorption properties of disulphonated aluminum phthalocyanine in tumor-bearing mice. Journal of Photochemistry and Photobiology B: Biology, 2001, 60, 73-78.	3.8	23
113	Experimental test of a perturbation model for time-resolved imaging in diffusive media. Applied Optics, 2003, 42, 3145.	2.1	23
114	Bandpass Effects in Time-Resolved Diffuse Spectroscopy. Applied Spectroscopy, 2009, 63, 48-56.	2.2	23
115	Broadband (550â€“1350â€‰nm) diffuse optical characterization of thyroid chromophores. Scientific Reports, 2018, 8, 10015.	3.3	23
116	In Vivo, Non-Invasive Characterization of Human Bone by Hybrid Broadband (600-1200 nm) Diffuse Optical and Correlation Spectroscopies. PLoS ONE, 2016, 11, e0168426.	2.5	23
117	Effects of the Menstrual Cycle on the Red and Near-infrared Optical Properties of the Human Breast Â¶. Photochemistry and Photobiology, 2000, 72, 383-391.	2.5	22
118	In vivo absorption spectroscopy of tumor sensitizers with femtosecond white light. Applied Optics, 2005, 44, 2213.	2.1	22
119	Dynamic time-resolved diffuse spectroscopy based on supercontinuum light pulses. Applied Optics, 2005, 44, 4684.	2.1	22
120	Time-resolved diffuse optical spectroscopy of small tissue samples. Optics Express, 2007, 15, 3301.	3.4	22
121	Heuristic Greenâ€™s function of the time dependent radiative transfer equation for a semi-infinite medium. Optics Express, 2007, 15, 18168.	3.4	22
122	Comparison of cell-cycle phase perturbations induced by the DNA-minor-groove alkylator tallimustine and by melphalan in the SW626 cell line. International Journal of Cancer, 1995, 62, 170-175.	5.1	21
123	Large-Area, Fast-Gated Digital SiPM With Integrated TDC for Portable and Wearable Time-Domain NIRS. IEEE Journal of Solid-State Circuits, 2020, 55, 3097-3111.	5.4	21
124	ABSORPTION SPECTRUM OF HEMATOPORPHYRIN DERIVATIVE in vivo IN A MURINE TUMOR MODEL. Photochemistry and Photobiology, 1994, 60, 582-585.	2.5	20
125	Diffuse optics using a dual window fast-gated counter. Applied Optics, 2014, 53, 7394.	2.1	20
126	Characterization of a time-resolved non-contact scanning diffuse optical imaging system exploiting fast-gated single-photon avalanche diode detection. Review of Scientific Instruments, 2016, 87, 035118.	1.3	20

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127	High throughput detection chain for time domain optical mammography. Biomedical Optics Express, 2018, 9, 755.	2.9	20
128	Non-invasive investigation of adipose tissue by time domain diffuse optical spectroscopy. Biomedical Optics Express, 2020, 11, 2779.	2.9	20
129	Criteria for the design of tissue-mimicking phantoms for the standardization of biophotonic instrumentation. Nature Biomedical Engineering, 2022, 6, 541-558.	22.5	20
130	In vivo absorption spectrum of disulphonated aluminium phthalocyanine in a murine tumour model. Journal of Photochemistry and Photobiology B: Biology, 1996, 34, 229-235.	3.8	19
131	Multiple-view diffuse optical tomography system based on time-domain compressive measurements. Optics Letters, 2017, 42, 2822.	3.3	19
132	Towards the use of bioresorbable fibers in timeâ€domain diffuse optics. Journal of Biophotonics, 2018, 11, e201600275.	2.3	19
133	Instrumental, optical and geometrical parameters affecting time-gated diffuse optical measurements: a systematic study. Biomedical Optics Express, 2018, 9, 5524.	2.9	19
134	Fluorescence Imaging During Photodynamic Therapy of Experimental Tumors in Mice Sensitized with Disulfonated Aluminum PhthalocyanineÂ¶. Photochemistry and Photobiology, 2000, 72, 690.	2.5	19
135	Time-gated imaging in radiology: theoretical and experimental studies. IEEE Journal of Selected Topics in Quantum Electronics, 1996, 2, 1041-1048.	2.9	18
136	Quantification in time-domain diffuse optical tomography using Mellin-Laplace transforms. Biomedical Optics Express, 2016, 7, 4346.	2.9	17
137	Time-Gated Single-Photon Detection in Time-Domain Diffuse Optics: A Review. Applied Sciences (Switzerland), 2020, 10, 1101.	2.5	17
138	Absorption and scattering perturbations in homogeneous and layered diffusive media probed by time-resolved reflectance at null source-detector separation. Physical Review E, 2006, 74, 021919.	2.1	16
139	Light diffusion in quenched disorder: Role of step correlations. Physical Review E, 2014, 89, 022141.	2.1	16
140	Time-Domain Functional Diffuse Optical Tomography System Based on Fiber-Free Silicon Photomultipliers. Applied Sciences (Switzerland), 2017, 7, 1235.	2.5	16
141	In vivo time-gated diffuse correlation spectroscopy at quasi-null source-detector separation. Optics Letters, 2018, 43, 2450.	3.3	16
142	The SiPM revolution in time-domain diffuse optics. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 978, 164411.	1.6	16
143	Intracellular glutathione heterogeneity in L1210 murine leukemia sublines made resistant to dna-interacting anti-neoplastic agents. International Journal of Cancer, 1993, 54, 435-442.	5.1	15
144	Artificial models of biological photoreceptors: effect of quenchers on the fluorescence properties of hypericin embedded in liposomes. Journal of Photochemistry and Photobiology B: Biology, 1997, 38, 245-252.	3.8	15

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145	Time-resolved scanning system for double reflectance and transmittance fluorescence imaging of diffusive media. Review of Scientific Instruments, 2008, 79, 013103.	1.3	15
146	Nondestructive optical detection of monomer uptake in wood polymer composites. Optics Letters, 2014, 39, 228.	3.3	15
147	Memory effect in silicon time-gated single-photon avalanche diodes. Journal of Applied Physics, 2015, 117, .	2.5	15
148	Toward noninvasive assessment of flap viability with time-resolved diffuse optical tomography: a preclinical test on rats. Journal of Biomedical Optics, 2016, 21, 1.	2.6	15
149	Broadband Time Domain Diffuse Optical Reflectance Spectroscopy: A Review of Systems, Methods, and Applications. Applied Sciences (Switzerland), 2019, 9, 5465.	2.5	15
150	Optical signatures of radiofrequency ablation in biological tissues. Scientific Reports, 2021, 11, 6579.	3.3	15
151	Probe-hosted large area silicon photomultiplier and high-throughput timing electronics for enhanced performance time-domain functional near-infrared spectroscopy. Biomedical Optics Express, 2020, 11, 6389.	2.9	15
152	In vivo time-domain diffuse correlation spectroscopy above the water absorption peak. Optics Letters, 2020, 45, 3377.	3.3	15
153	THE QUALITY AND STORABILITY OF APPLES CV. ÂJONAGOREDÂ´ SELECTED AT-HARVEST BY TIME-RESOLVED REFLECTANCE SPECTROSCOPY. Acta Horticulturae, 2005, , 1481-1488.	0.2	14
154	Multichannel Time-Resolved Tissue Oximeter for Functional Imaging of the Brain. IEEE Transactions on Instrumentation and Measurement, 2006, 55, 85-90.	4.7	14
155	Noninvasive optical estimation of CSF thickness for brain-atrophy monitoring. Biomedical Optics Express, 2018, 9, 4094.	2.9	14
156	Timeâ€Resolved Studies of Light Propagation in Crassula and Phaseolus Leaves. Photochemistry and Photobiology, 1999, 69, 242-247.	2.5	13
157	Feasibility of white-light time-resolved optical mammography. Journal of Biomedical Optics, 2006, 11, 054035.	2.6	13
158	Effects of the instrument response function and the gate width in time-domain diffuse correlation spectroscopy: model and validations. Neurophotonics, 2019, 6, 1.	3.3	13
159	Neurophotonics: non-invasive optical techniques for monitoring brain functions. Functional Neurology, 2014, 29, 223-30.	1.3	13
160	Functional brain imaging by multi-wavelength time-resolved near infrared spectroscopy. Opto-electronics Review, 2008, 16, .	2.4	12
161	Forward solvers for photon migration in the presence of highly and totally absorbing objects embedded inside diffusive media. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2014, 31, 460.	1.5	12
162	Depth sensitivity of frequency domain optical measurements in diffusive media. Biomedical Optics Express, 2017, 8, 2990.	2.9	12

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163	Time-domain NIRS system based on supercontinuum light source and multi-wavelength detection: validation for tissue oxygenation studies. Biomedical Optics Express, 2021, 12, 6629.	2.9	12
164	Multi-wavelength Time Domain Optical Mammography. Technology in Cancer Research and Treatment, 2005, 4, 527-537.	1.9	11
165	Fast-gated single-photon avalanche diode for extremely wide dynamic-range applications. Proceedings of SPIE, 2009, , .	0.8	11
166	Recipes to make organic phantoms for diffusive optical spectroscopy. Applied Optics, 2013, 52, 2494.	1.8	11
167	Time-domain Raman analytical forward solvers. Optics Express, 2016, 24, 20382.	3.4	11
168	Time resolved diffuse optical spectroscopy with geometrically accurate models for bulk parameter recovery. Biomedical Optics Express, 2016, 7, 3784.	2.9	11
169	Broadband diffuse optical characterization of elastin for biomedical applications. Biophysical Chemistry, 2017, 229, 130-134.	2.8	11
170	Chromophore decomposition in multispectral time-resolved diffuse optical tomography. Biomedical Optics Express, 2017, 8, 4772.	2.9	11
171	Time domain diffuse Raman spectrometer based on a TCSPC camera for the depth analysis of diffusive media. Optics Letters, 2018, 43, 2134.	3.3	11
172	Time-domain diffuse optics with 8.6â€‰â€‰mm² fast-gated SiPM for extreme light harvesting. Optics Letters, 2021, 46, 424.	3.3	11
173	SELECTION OF 'SPRINGBRIGHT' NECTARINES BY TIME-RESOLVED REFLECTANCE SPECTROSCOPY (TRS) TO PREDICT FRUIT QUALITY IN THE MARKETING CHAIN. Acta Horticulturae, 2003, , 171-177.	0.2	11
174	Reconstruction of diffuse photonâ€density wave interference in turbid media from timeâ€resolved transmittance measurements. Applied Physics Letters, 1996, 69, 1674-1676.	3.3	10
175	Steady-state and time-resolved spectroscopic studies on low-density lipoprotein-bound Zn(II)-phthalocyanine. Journal of Photochemistry and Photobiology B: Biology, 1999, 49, 198-203.	3.8	10
176	In Vivo Measurement of Vascular Modulation in Experimental Tumors Using a Fluorescent Contrast Agent. Photochemistry and Photobiology, 2008, 84, 1249-1256.	2.5	10
177	Non destructive detection of brown heart in â€˜Braeburnâ€™ apples by time-resolved reflectance spectroscopy. Procedia Food Science, 2011, 1, 413-420.	0.6	10
178	Effects of tissue heterogeneity on the optical estimate of breast density. Biomedical Optics Express, 2012, 3, 2411.	2.9	10
179	Systematic study of the effect of ultrasound gel on the performances of time-domain diffuse optics and diffuse correlation spectroscopy. Biomedical Optics Express, 2019, 10, 3899.	2.9	10
180	Absorption spectroscopy of powdered materials using time-resolved diffuse optical methods. Applied Optics, 2012, 51, 7858.	1.8	9

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