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	Reproducibility of identical solid phantoms. Journal of Biomedical Optics, 2022, 27, .	2.6	5
2	Evaluation of a pipeline for simulation, reconstruction, and classification in ultrasound-aided diffuse optical tomography of breast tumors. Journal of Biomedical Optics, 2022, 27, .	2.6	6
3	Performance and reproducibility assessment across multiple time-domain near-infrared spectroscopy device replicas. , 2022, , .		0
4	Criteria for the design of tissue-mimicking phantoms for the standardization of biophotonic instrumentation. Nature Biomedical Engineering, 2022, 6, 541-558.	22.5	20
5	Multi-laboratory performance assessment of diffuse optics instruments: the BitMap exercise. Journal of Biomedical Optics, 2022, 27, .	2.6	9
6	First In-Vivo Diffuse Optics Application of a Time-Domain Multiwavelength Wearable Optode. , 2022, , .		0
7	Preliminary Evidence of the Efficacy of Time-Resolved Broad-Spectrum Optical Mammography in Monitoring Neoadjuvant Chemotherapy. , 2022, , .		0
8	Superconducting nanowire detectors for in vivo time-domain diffuse correlation spectroscopy: system and validations. , 2022, , .		0
9	Time resolved speckle contrast optical spectroscopy at quasi-null source-detector separation for non-invasive measurement of microvascular blood flow. Biomedical Optics Express, 2021, 12, 1499.	2.9	8
10	Monitoring the motor cortex hemodynamic response function in freely moving walking subjects: a time-domain fNIRS pilot study. Neurophotonics, 2021, 8, 015006.	3.3	8
11	Optical signatures of radiofrequency ablation in biological tissues. Scientific Reports, 2021, 11, 6579.	3.3	15
12	A multi-laboratory comparison of photon migration instruments and their performances: the BitMap exercise. , 2021, , .		2
13	Enhanced diffuse optical tomographic reconstruction using concurrent ultrasound information. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2021, 379, 20200195.	3.4	5
14	Performance assessment of laser sources for time-domain diffuse correlation spectroscopy. Biomedical Optics Express, 2021, 12, 5351.	2.9	6
15	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
16	In vivo test-driven upgrade of a time domain multi-wavelength optical mammograph. Biomedical Optics Express, 2021, 12, 1105.	2.9	6
17	Time-domain diffuse optics with 8.6â€‰â€‰mm² fast-gated SiPM for extreme light harvesting. Optics Letters, 2021, 46, 424.	3.3	11
18	Compact Time-Domain NIRS oximeter for non-invasive brain and muscle monitoring. , 2021, , .		1

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19	Fast-gated digital silicon photomultiplier maximizes light harvesting and depth sensitivity in time-domain diffuse optics. , 2021, , .		0
20	Optical mammography in the time domain up to 1060 nm: from tests on healthy women to initial data for monitoring neoadjuvant chemotherapy. , 2021, , .		0
21	SOLUS: a novel multimodal approach to ultrasound and diffuse optics imaging of breast cancer. , 2021, , .		0
22	Phantoms for performance verification and quality control in developing a photonics-based medical device (VASCOVID): a regulatory driven approach. , 2021, , .		0
23	In-vivo time-domain diffuse correlation spectroscopy with a superconducting nanowire single-photon detector. , 2021, , .		1
24	Motor cortex hemodynamic response function in freely moving subjects recorded via time domain fNIRS. , 2021, , .		0
25	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
26	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
27	Coherent fluctuations in time-domain diffuse optics. APL Photonics, 2020, 5, 071301.	5.7	2
28	Real-Time Dual-Wavelength Time-Resolved Diffuse Optical Tomography System for Functional Brain Imaging Based on Probe-Hosted Silicon Photomultipliers. Sensors, 2020, 20, 2815.	3.8	6
29	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
30	Non-invasive investigation of adipose tissue by time domain diffuse optical spectroscopy. Biomedical Optics Express, 2020, 11, 2779.	2.9	20
31	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
32	Wearable and wireless time-domain near-infrared spectroscopy system for brain and muscle hemodynamic monitoring. Biomedical Optics Express, 2020, 11, 5934.	2.9	31
33	In vivo time-domain diffuse correlation spectroscopy above the water absorption peak. Optics Letters, 2020, 45, 3377.	3.3	15
34	SOLUS Project: Bringing Innovation into Breast Cancer Diagnosis and in the Time-Domain Diffuse Optical Field. , 2020, , .		1
35	Broadband extraction of tissue optical properties using a portable hybrid time-resolved continuous wave instrumentation: characterization of ex vivo organs. , 2020, , .		9
36	Time-Gated Single-Photon Detection in Time-Domain Diffuse Optics: A Review. Applied Sciences (Switzerland), 2020, 10, 1101.	2.5	17

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37	A solid phantom recipe and exploration for biophotonics applications: a step to produce standardized tissue phantoms. , 2020, , .		0
38	High Signal-to-Noise Ratio and Depth Penetration in Time-Domain Functional Near-Infrared Spectroscopy Combining Large Area Detector and High Throughput Electronics. , 2020, , .		0
39	Time domain diffuse optical spectroscopy for the monitoring of thermal treatment in biological tissue.. , 2020, , .		1
40	In vivo time-domain diffuse correlation spectroscopy beyond the water absorption peak. , 2020, , .		0
41	Multi-laboratory efforts for the standardization of performance assessment of diffuse optics instruments â€“ the BitMap Exercise. , 2020, , .		1
42	Multi Simulation Platform for Time Domain Diffuse Optical Tomography: An Application to a Compact Hand-Held Reflectance Probe. Applied Sciences (Switzerland), 2019, 9, 2849.	2.5	5
43	A Versatile Setup for Time-Resolved Functional Near Infrared Spectroscopy Based on Fast-Gated Single-Photon Avalanche Diode and on Four-Wave Mixing Laser. Applied Sciences (Switzerland), 2019, 9, 2366.	2.5	8
44	Broadband Time Domain Diffuse Optical Reflectance Spectroscopy: A Review of Systems, Methods, and Applications. Applied Sciences (Switzerland), 2019, 9, 5465.	2.5	15
45	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
46	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
47	Bioresorbable fibers for time-domain diffuse optical measurements: a step toward next generation optical implantable devices. , 2019, , .		1
48	Solid heterogeneous phantoms for multimodal ultrasound and diffuse optical imaging: an outcome of the SOLUS project for standardization. , 2019, , .		3
49	Monitoring radiofrequency ablation of biological tissue using broadband time-resolved diffuse optical spectroscopy. , 2019, , .		2
50	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
51	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
52	Multi-wavelength time domain diffuse optical tomography for breast cancer: initial results on silicone phantoms. , 2019, , .		1
53	The LUCA device: laser and ultrasound co-analyzer for thyroid nodules. , 2019, , .		1
54	Compressive sensing time-domain Raman spectrometer for depth sensing of diffusive media. , 2019, , .		0

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55	The BITMAP exercise: a multi-laboratory performance assessment campaign of diffuse optical instrumentation. , 2019, , .		2
56	In vivo time-domain diffuse correlation spectroscopy of the human muscle above 1000 nm. , 2019, , .		0
57	The BitMap dataset: an open dataset on performance assessment of diffuse optics instruments. , 2019, , .		0
58	Large area SiPM and high throughput timing electronics: toward new generation time-domain instruments. , 2019, , .		0
59	Effects of ultrasound impedance matching fluids on diffuse optical measurements. , 2019, , .		0
60	Spectral approach to time domain diffuse optical tomography for breast cancer: validation on meat phantoms. , 2019, , .		0
61	Spatially-enhanced time-domain NIRS for determination of optical properties in layered structures. , 2019, , .		0
62	A wearable time domain near-infrared spectroscopy system. , 2019, , .		3
63	In vivo time domain speckle contrast optical spectroscopy. , 2019, , .		0
64	A solid phantom recipe for biophotonics applications: a step towards anatomically correct 3D tissue phantoms. , 2019, , .		3
65	Blood-lipid liquid phantom for assessing time and frequency domain tissue oximeter performances. , 2019, , .		0
66	Towards the use of bioresorbable fibers in timeâ€domain diffuse optics. Journal of Biophotonics, 2018, 11, e201600275.	2.3	19
67	High throughput detection chain for time domain optical mammography. Biomedical Optics Express, 2018, 9, 755.	2.9	20
68	Liquid phantoms for near-infrared and diffuse correlation spectroscopies with tunable optical and dynamic properties. Biomedical Optics Express, 2018, 9, 2068.	2.9	30
69	In vivo time-gated diffuse correlation spectroscopy at quasi-null source-detector separation. Optics Letters, 2018, 43, 2450.	3.3	16
70	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
71	How Should the New Generation of Detectors for Diffuse Optics Be? A Systematic Simulation Study. , 2018, , .		1
72	Broadband (550â€“1350â€‰nm) diffuse optical characterization of thyroid chromophores. Scientific Reports, 2018, 8, 10015.	3.3	23

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73	Noninvasive optical estimation of CSF thickness for brain-atrophy monitoring. Biomedical Optics Express, 2018, 9, 4094.	2.9	14
74	Instrumental, optical and geometrical parameters affecting time-gated diffuse optical measurements: a systematic study. Biomedical Optics Express, 2018, 9, 5524.	2.9	19
75	Multidistance time domain diffuse optical spectroscopy in the assessment of abdominal fat heterogeneity. , 2018, , .		0
76	Study of optimal measurement conditions for time-domain diffuse optics systems. , 2018, , .		0
77	Statistics of photon penetration depth in diffusive media. , 2017, , .		0
78	Time-resolved laser spectroscopy for the in situ characterization of methacrylate monomer flow within spruce. Wood Science and Technology, 2017, 51, 227-242.	3.2	5
79	Diffuse optical tomography based on time-resolved compressive sensing. , 2017, , .		0
80	Diffuse optical characterization of collagen absorption from 500 to 1700Ânm. Journal of Biomedical Optics, 2017, 22, 015006.	2.6	95
81	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
82	Broadband diffuse optical characterization of elastin for biomedical applications. Biophysical Chemistry, 2017, 229, 130-134.	2.8	11
83	Time-resolved analytical model for Raman scattering in a diffusive medium. Proceedings of SPIE, 2017, , .	0.8	0
84	Multiple-view time-resolved diffuse optical tomography based on structured illumination and compressive detection. , 2017, , .		0
85	Compact dual-wavelength system for time-resolved diffuse optical spectroscopy. , 2017, , .		3
86	Performance evaluation of time-domain multispectral diffuse optical tomography in the reflection geometry. , 2017, , .		0
87	Attractive new technologies for 7-wavelength time domain optical mammography. Proceedings of SPIE, 2017, , .	0.8	0
88	Non-contact time-domain imaging of functional brain activation and heterogeneity of superficial signals. Proceedings of SPIE, 2017, , .	0.8	1
89	Thyroid tissue constituents characterization and application to in vivo studies by broadband (600-1200) Tj ETQq1 1 0.784314 rgBT /O		1
90	Time-domain diffuse optics using bioresorbable fibers: a proof-of-principle study. , 2017, , .		1

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91	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
92	Depth sensitivity of frequency domain optical measurements in diffusive media. Biomedical Optics Express, 2017, 8, 2990.	2.9	12
93	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
94	Frequency offset Raman spectroscopy (FORS) for depth probing of diffusive media. Optics Express, 2017, 25, 4585.	3.4	30
95	Chromophore decomposition in multispectral time-resolved diffuse optical tomography. Biomedical Optics Express, 2017, 8, 4772.	2.9	11
96	Multiple-view diffuse optical tomography system based on time-domain compressive measurements. Optics Letters, 2017, 42, 2822.	3.3	19
97	Time-Domain Functional Diffuse Optical Tomography System Based on Fiber-Free Silicon Photomultipliers. Applied Sciences (Switzerland), 2017, 7, 1235.	2.5	16
98	Novel Approaches to Photon Detection and Timing for 7-Wavelength Time Domain Optical Mammography. , 2017, , .		0
99	Frequency Offset Raman Spectroscopy (FORS) for In-Depth Analysis of Scattering Media. , 2017, , .		0
100	Miniaturized pulsed laser source for time-domain diffuse optics routes to wearable devices. Journal of Biomedical Optics, 2017, 22, 1.	2.6	29
101	In vivo depth heterogeneity of the abdomen assessed by broadband time-domain diffuse optical spectroscopy. , 2017, , .		1
102	Quantification in time-domain diffuse optical tomography using Mellin-Laplace transforms. Biomedical Optics Express, 2016, 7, 4346.	2.9	17
103	Time-domain Raman analytical forward solvers. Optics Express, 2016, 24, 20382.	3.4	11
104	An innovative 8 channels system for time-resolved diffuse optical tomography based on SiPMs. , 2016, , .		0
105	Probe-hosted silicon photomultipliers for time-domain functional near-infrared spectroscopy: phantom andin vivotests. Neurophotonics, 2016, 3, 045004.	3.3	45
106	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
107	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
108	Characterization of homogeneous tissue phantoms for performance tests in diffuse optics. Proceedings of SPIE, 2016, , .	0.8	1

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109	Time resolved diffuse optical spectroscopy with geometrically accurate models for bulk parameter recovery. Biomedical Optics Express, 2016, 7, 3784.	2.9	11
110	Large area silicon photomultipliers allow extreme depth penetration in time-domain diffuse optics. , 2016, , .		0
111	Time-domain diffuse optical tomography using silicon photomultipliers: feasibility study. Journal of Biomedical Optics, 2016, 21, 116002.	2.6	25
112	Thereâ€™s plenty of light at the bottom: statistics of photon penetration depth in random media. Scientific Reports, 2016, 6, 27057.	3.3	82
113	New frontiers in time-domain diffuse optics, a review. Journal of Biomedical Optics, 2016, 21, 091310.	2.6	181
114	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
115	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
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	Time-Resolved Reflectance Diffuse Optical Tomography with Silicon PhotoMultipliers. , 2016, , .		0
118	Quantification of effective absorption perturbations for Time-Resolved Diffuse Optical Tomography with totally absorbing objects. , 2016, , .		0
119	Statistics of the light penetration depth in a diffusive medium. , 2016, , .		0
120	In vivo Time domain Broadband (600 -1200 nm) Diffuse Optical Characterization of Human Bone. , 2016, , .		0
121	Is Collagen an Independent Risk Factor for Breast Cancer?. , 2016, , .		0
122	New Compact and Flexible Picosecond Laser System for Multi-wavelength Time-Resolved Tissue Spectroscopy. , 2016, , .		1
123	Long-lasting, liquid phantom for diffuse optical and correlation spectroscopies. , 2016, , .		1
124	Design and construction of a solid switchable phantom for diffuse optical imaging. , 2015, , .		0
125	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
126	Memory effect in silicon time-gated single-photon avalanche diodes. Journal of Applied Physics, 2015, 117, .	2.5	15

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127	Solid switchable phantom for diffuse optical imaging. , 2015, , .		0
128	Design and construction of a solid switchable phantom for diffuse optical imaging. , 2015, , .		0
129	Optical study on the dependence of breast tissue composition and structure on subject anamnesis. , 2015, , .		0
130	Collagen content as a risk factor in breast cancer? A pilot clinical study. , 2015, , .		2
131	Time-resolved diffused optical characterization of key tissue constituents of human bony prominence locations. Proceedings of SPIE, 2015, , .	0.8	7
132	Spectrally Resolved Single-Photon Timing of Silicon Photomultipliers for Time-Domain Diffuse Spectroscopy. IEEE Photonics Journal, 2015, 7, 1-12.	2.0	28
133	Mechanically switchable solid inhomogeneous phantom for performance tests in diffuse imaging and spectroscopy. Journal of Biomedical Optics, 2015, 20, 121304.	2.6	45
134	Optical discrimination between malignant and benign breast lesions. Proceedings of SPIE, 2015, , .	0.8	1
135	Time-resolved diffuse optical tomography for non-invasive flap viability assessment: pre-clinical tests on rats. , 2015, , .		0
136	Broadband time-resolved diffuse optical spectrometer for clinical diagnostics: characterization and in-vivo measurements in the 600-1350 nm spectral range. , 2015, , .		4
137	Time domain diffuse optical spectroscopy:In vivoquantification of collagen in breast tissue. , 2015, , .		1
138	Fiber-based hybrid probe for non-invasive cerebral monitoring in neonatology. Proceedings of SPIE, 2015, , .	0.8	1
139	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
140	Towards next generation time-domain diffuse optics devices. , 2015, , .		2
141	Non-contact scanning time-domain functional optical imaging of the adult human brain. Proceedings of SPIE, 2015, , .	0.8	2
142	Diffuse optical tomography by using time-resolved single pixel camera. , 2015, , .		0
143	Spatial resolution in depth for time-resolved diffuse optical tomography using short source-detector separations. Biomedical Optics Express, 2015, 6, 1.	2.9	47
144	Towards next-generation time-domain diffuse optics for extreme depth penetration and sensitivity. Biomedical Optics Express, 2015, 6, 1749.	2.9	100

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145	In-vivo multilaboratory investigation of the optical properties of the human head. Biomedical Optics Express, 2015, 6, 2609.	2.9	48
146	Fast silicon photomultiplier improves signal harvesting and reduces complexity in time-domain diffuse optics. Optics Express, 2015, 23, 13937.	3.4	68
147	Time-domain diffuse optics: towards next generation devices. , 2015, , .		1
148	In-depth quantification by using multispectral time-resolved diffuse optical tomography. , 2015, , .		0
149	Time-Domain Diffuse Optical Imaging of Tissue by Non-contact Scanning. Springer Series in Chemical Physics, 2015, , 561-585.	0.2	2
150	Breast Monitoring by Time-Resolved Diffuse Optical Imaging. Springer Series in Chemical Physics, 2015, , 587-611.	0.2	1
151	Broadband Time-Resolved Diffuse Optical Spectrometer for Clinical Diagnostics: Characterization and in-vivo Measurements in the 600-1350 nm spectral range. , 2015, , .		1
152	Non-contact scanning time-domain functional optical imaging of the adult human brain. , 2015, , .		0
153	Time-resolved diffused optical characterization of key tissue constituents of human bony prominence locations. , 2015, , .		1
154	Time-domain diffuse optics: towards next generation devices. , 2015, , .		0
155	Time-resolved diffuse optical tomography for non-invasive flap viability assessment: pre-clinical tests on rats. , 2015, , .		0
156	In-depth quantification by using Multispectral Time-Resolved Diffuse Optical Tomography. , 2015, , .		0
157	Collagen content as a risk factor in breast cancer? A pilot clinical study.. , 2015, , .		0
158	Optical study on the dependence of breast tissue composition and structure on subject anamnesis. , 2015, , .		0
159	Optimal arrangements of fiber optic probes to enhance the spatial resolution in depth for 3D reflectance diffuse optical tomography with time-resolved measurements performed with fast-gated single-photon avalanche diodes. Proceedings of SPIE, 2014, , .	0.8	0
160	Phantoms for diffuse optical imaging based on totally absorbing objects, part 2: experimental implementation. Journal of Biomedical Optics, 2014, 19, 076011.	2.6	40
161	Performance assessment of time-domain optical brain imagers, part 2: nEUROPt protocol. Journal of Biomedical Optics, 2014, 19, 086012.	2.6	85
162	Performance assessment of time-domain optical brain imagers, part 1: basic instrumental performance protocol. Journal of Biomedical Optics, 2014, 19, 086010.	2.6	101

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163	Multi-center study of the optical properties of the human head. , 2014, , .		0
164	Nondestructive optical detection of monomer uptake in wood polymer composites. Optics Letters, 2014, 39, 228.	3.3	15
165	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
166	Estimate of tissue composition in malignant and benign breast lesions by time-domain optical mammography. Biomedical Optics Express, 2014, 5, 3684.	2.9	50
167	Diffuse optics using a dual window fast-gated counter. Applied Optics, 2014, 53, 7394.	2.1	20
168	Light diffusion in quenched disorder: Role of step correlations. Physical Review E, 2014, 89, 022141.	2.1	16
169	Optical mammography: Characterization of malignant and benign breast lesions by a perturbative model. , 2014, , .		0
170	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
171	Time domain functional NIRS imaging for human brain mapping. NeuroImage, 2014, 85, 28-50.	4.2	372
172	Optical Characterization of Benign and Malignant Breast Lesions by Perturbative Model. , 2014, , .		0
173	Correlation between Optically-derived Tissue Parameters and Percentage Mammographic Density. , 2014, , .		0
174	Realization and Characterization of an Automatized Setup for Non-Invasive Assessment of Flap Viability by means of Fast-Gated SPAD. , 2014, , .		0
175	Neurophotonics: non-invasive optical techniques for monitoring brain functions. Functional Neurology, 2014, 29, 223-30.	1.3	13
176	A non-contact time-domain scanning brain imaging system: first in-vivo results. , 2013, , .		2
177	Recipes to make organic phantoms for diffusive optical spectroscopy. Applied Optics, 2013, 52, 2494.	1.8	11
178	Memory effect in gated single-photon avalanche diodes: a limiting noise contribution similar to afterpulsing. , 2013, , .		0
179	Non-contact in vivo diffuse optical imaging using a time-gated scanning system. Biomedical Optics Express, 2013, 4, 2257.	2.9	41
180	Time-resolved diffuse optical tomography using fast-gated single-photon avalanche diodes. Biomedical Optics Express, 2013, 4, 1351.	2.9	52

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181	Optical identification of subjects at high risk for developing breast cancer. Journal of Biomedical Optics, 2013, 18, 060507.	2.6	31
182	Phantoms for diffuse optical imaging based on totally absorbing objects, part 1: basic concepts. Journal of Biomedical Optics, 2013, 18, 066014.	2.6	41
183	Monolithic time-to-digital converter chips for time-correlated single-photon counting and fluorescence lifetime measurements. Proceedings of SPIE, 2013, , .	0.8	3
184	Note: Comparison between a prism-based and an acousto-optic tunable filter-based spectrometer for diffusive media. Review of Scientific Instruments, 2013, 84, 016109.	1.3	4
185	Optical spectroscopy in the time-domain beyond 1.1 μm: A tool for the characterization of diffusive media. , 2013, , .		0
186	Diffuse Optical Techniques Applied to Wood Characterisation. Journal of Near Infrared Spectroscopy, 2013, 21, 259-268.	1.5	32
187	Optical identification of subjects at high risk for developing breast cancer. Proceedings of SPIE, 2013, , .	0.8	1
188	Time-resolved optical spectroscopy of the chest: is it possible to probe the lung?. , 2013, , .		2
189	Realistic phantoms for diffuse optical imaging using totally absorbing objects. , 2013, , .		0
190	Multi-laboratory investigation of the optical properties of the human head. , 2013, , .		0
191	Functional near-infrared spectroscopy at small source-detector distance by means of high dynamic-range fast-gated SPAD acquisitions: firstin-vivomeasurements. , 2013, , .		7
192	Realistic inhomogeneous phantoms using an equivalent black volume. Proceedings of SPIE, 2013, , .	0.8	0
193	Comparison of organic phantom recipes and characterization by time-resolved diffuse optical spectroscopy. Proceedings of SPIE, 2013, , .	0.8	1
194	In-vivo optical spectroscopy in the time-domain beyond 1100 nm. , 2013, , .		1
195	Performance assessment of time-domain optical brain imagers: a multi-laboratory study. , 2013, , .		7
196	Experimental results on time-resolved reflectance diffuse optical tomography with fast-gated SPADs. Proceedings of SPIE, 2013, , .	0.8	0
197	Effects of tissue heterogeneity on the optical estimate of breast density. Biomedical Optics Express, 2012, 3, 2411.	2.9	10
198	Single-fiber diffuse optical time-of-flight spectroscopy. Optics Letters, 2012, 37, 2877.	3.3	36

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199	Absorption spectroscopy of powdered materials using time-resolved diffuse optical methods. Applied Optics, 2012, 51, 7858.	1.8	9
200	Non-contact time-resolved diffuse reflectance imaging at null source-detector separation. Optics Express, 2012, 20, 283.	3.4	46
201	Inter-Laboratory Comparison of Optical Properties Performed on Intralipid and India Ink. , 2012, , .		2
202	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
203	Brain and Muscle near Infrared Spectroscopy/Imaging Techniques. Journal of Near Infrared Spectroscopy, 2012, 20, 15-27.	1.5	43
204	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
205	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
206	Performance Assessment of Time-Domain Optical Brain Imagers: The nEUROPt Protocol. , 2012, , .		2
207	Spectral Distortions in Time-Resolved Diffuse Optical Spectroscopy Due to AOTFs. , 2012, , .		0
208	Development of an optical non-contact time-resolved diffuse reflectance scanning imaging system. , 2012, , .		2
209	Recipes for Organic Phantoms and Characterization by Time-Resolved Diffuse Optical Spectroscopy. , 2012, , .		0
210	Optical Spectroscopy up to 1700 nm: a Time-Resolved Approach Combined with an InGaAs/InP Single-Photon Avalanche Diode. , 2012, , .		0
211	Optical Assessment of Breast Density and its Dependence on Tissue Heterogeneity. , 2012, , .		2
212	Fast-gated single-photon detector module for wide dynamic range optical measurements. , 2011, , .		1
213	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
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