

Turgut Durduran

List of Publications by Year in descending order

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216
papers

8,398
citations

50276

46
h-index

49909

87
g-index

219
all docs

219
docs citations

219
times ranked

4667
citing authors

#	ARTICLE	IF	CITATIONS
1	Multi-laboratory performance assessment of diffuse optics instruments: the BitMap exercise. Journal of Biomedical Optics, 2022, 27, .	2.6	9
2	Diffuse optical platform for the personalization of plasmonic photothermal therapy. , 2022, , .		0
3	Integrated Multi-Sensor Board for Quality Assurance and Laser Safety in Near-Infrared Spectroscopies. , 2022, , .		0
4	The Simulation of Speckle Contrast Optical Tomography Performance in a Human Head and Experimental Results Using a Multi-Mode Fiber Bundle. , 2022, , .		0
5	A Fast, Portable, Low-Cost Deep Tissue Blood Flow Monitoring Device Based on Speckle Contrast Optical Spectroscopy. , 2022, , .		0
6	Fast in-vivo time-domain diffuse correlation spectroscopy. , 2022, , .		1
7	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
8	Blood flow response to orthostatic challenge identifies signatures of the failure of static cerebral autoregulation in patients with cerebrovascular disease. BMC Neurology, 2021, 21, 154.	1.8	4
9	The LUCA device: a multi-modal platform combining diffuse optics and ultrasound imaging for thyroid cancer screening. Biomedical Optics Express, 2021, 12, 3392.	2.9	8
10	Recipes for diffuse correlation spectroscopy instrument design using commonly utilized hardware based on targets for signal-to-noise ratio and precision. Biomedical Optics Express, 2021, 12, 3265.	2.9	15
11	Neurodevelopmental profile in children with benign external hydrocephalus syndrome. A pilot cohort study. Child's Nervous System, 2021, 37, 2799-2806.	1.1	4
12	Microvascular blood flow changes of the abductor pollicis brevis muscle during sustained static exercise. Biomedical Optics Express, 2021, 12, 4235.	2.9	3
13	Performance assessment of laser sources for time-domain diffuse correlation spectroscopy. Biomedical Optics Express, 2021, 12, 5351.	2.9	6
14	Cerebral and systemic physiological effects of wearing face masks in young adults. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	20
15	Hybrid diffuse optics for bedside measurements of cerebral hemodynamics in a large cohort of stroke patients. , 2021, , .		0
16	VASCOVID: an integrated platform to evaluate endothelial and microvascular impairment in severe COVID-19 patients. , 2021, , .		0
17	Does wearing a non-medical face mask cause changes in cerebral hemodynamics?. , 2021, , .		0
18	A hybrid DCS and TD-NIRS device for monitoring tissue oxygenation and perfusion, towards ICU applications. , 2021, , .		0

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19	A comprehensive method for simulating the effects of detector noise on speckle contrast signal. , 2021, , .		0
20	Validation of diffuse correlation spectroscopy against 15O-water PET for regional cerebral blood flow measurement in neonatal piglets. Journal of Cerebral Blood Flow and Metabolism, 2020, 40, 2055-2065.	4.3	33
21	Coherent fluctuations in time-domain diffuse optics. APL Photonics, 2020, 5, 071301.	5.7	2
22	Non-Invasive Estimation of Intracranial Pressure by Diffuse Optics: A Proof-of-Concept Study. Journal of Neurotrauma, 2020, 37, 2569-2579.	3.4	22
23	Towards detection of brain injury using multimodal non-invasive neuromonitoring in adults undergoing extracorporeal membrane oxygenation. Biomedical Optics Express, 2020, 11, 6551.	2.9	11
24	In vivo time-domain diffuse correlation spectroscopy above the water absorption peak. Optics Letters, 2020, 45, 3377.	3.3	15
25	Non-invasive estimation of intracranial pressure by diffuse correlation spectroscopy. , 2020, , .		0
26	Wearable, low-cost device for monitoring cerebral blood flow with speckle contrast optical spectroscopy. , 2020, , .		0
27	Cerebral oxygenation and blood flow in normal term infants at rest measured by a hybrid near-infrared device (BabyLux). Pediatric Research, 2019, 86, 515-521.	2.3	18
28	Flexible graphene photodetectors for wearable fitness monitoring. Science Advances, 2019, 5, eaaw7846.	10.3	186
29	Quantification of gold nanoparticle accumulation in tissue by two-photon luminescence microscopy. Nanoscale, 2019, 11, 11331-11339.	5.6	17
30	Cerebral oxygenation and blood flow in term infants during postnatal transition: BabyLux project. Archives of Disease in Childhood: Fetal and Neonatal Edition, 2019, 104, F648-F653.	2.8	10
31	Early microvascular cerebral blood flow response to head-of-bed elevation is related to outcome in acute ischemic stroke. Journal of Neurology, 2019, 266, 990-997.	3.6	31
32	Non-invasive and quantitative <i>in vivo</i> monitoring of gold nanoparticle concentration and tissue hemodynamics by hybrid optical spectroscopies. Nanoscale, 2019, 11, 5595-5606.	5.6	5
33	High-resolution mapping of infraslow cortical brain activity enabled by graphene microtransistors. Nature Materials, 2019, 18, 280-288.	27.5	121
34	Microvascular cerebral blood flow fluctuations in association with apneas and hypopneas in acute ischemic stroke. Neurophotonics, 2019, 6, 1.	3.3	4
35	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
36	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

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37	High-density speckle contrast optical tomography of cerebral blood flow response to functional stimuli in the rodent brain. <i>Neurophotonics</i> , 2019, 6, 1.	3.3	14
38	Accuracy and precision of tissue optical properties and hemodynamic parameters estimated by the BabyLux device: a hybrid time-resolved near-infrared and diffuse correlation spectroscopy neuro-monitor. <i>Biomedical Optics Express</i> , 2019, 10, 2556.	2.9	11
39	Self-calibrating time-resolved near infrared spectroscopy. <i>Biomedical Optics Express</i> , 2019, 10, 2657.	2.9	10
40	Systematic study of the effect of ultrasound gel on the performances of time-domain diffuse optics and diffuse correlation spectroscopy. <i>Biomedical Optics Express</i> , 2019, 10, 3899.	2.9	10
41	Recovery of the diffuse correlation spectroscopy data-type from speckle contrast measurements: towards low-cost, deep-tissue blood flow measurements. <i>Biomedical Optics Express</i> , 2019, 10, 5395.	2.9	23
42	Diffuse correlation tomography in the transport regime: a theoretical study of the sensitivity to Brownian motion. , 2019, , .		0
43	In vivo time-domain diffuse correlation spectroscopy of the human muscle above 1000 nm. , 2019, , .		0
44	Cloud-based NIRFAST server for tissue parameters recovery: laser and ultrasound co-analyser of thyroid nodules. , 2019, , .		0
45	Measurement of fetal cerebral blood flow of the lamb fetus in utero. , 2019, , .		0
46	In vivo time domain speckle contrast optical spectroscopy. , 2019, , .		0
47	Diffuse correlation tomography in the transport regime: A theoretical study of the sensitivity to Brownian motion. <i>Physical Review E</i> , 2018, 97, 022408.	2.1	4
48	Compact, multi-exposure speckle contrast optical spectroscopy (SCOS) device for measuring deep tissue blood flow. <i>Biomedical Optics Express</i> , 2018, 9, 322.	2.9	41
49	Time-resolved near infrared light propagation using frequency domain superposition. <i>Biomedical Optics Express</i> , 2018, 9, 41.	2.9	10
50	Transcranial diffuse optical assessment of the microvascular reperfusion after thrombolysis for acute ischemic stroke. <i>Biomedical Optics Express</i> , 2018, 9, 1262.	2.9	22
51	Liquid phantoms for near-infrared and diffuse correlation spectroscopies with tunable optical and dynamic properties. <i>Biomedical Optics Express</i> , 2018, 9, 2068.	2.9	30
52	In vivo time-gated diffuse correlation spectroscopy at quasi-null source-detector separation. <i>Optics Letters</i> , 2018, 43, 2450.	3.3	16
53	Broadband (550â€“1350â€%nm) diffuse optical characterization of thyroid chromophores. <i>Scientific Reports</i> , 2018, 8, 10015.	3.3	23
54	Concurrent measurement of cerebral hemodynamics and electroencephalography during transcranial direct current stimulation. <i>Neurophotonics</i> , 2018, 5, 1.	3.3	21

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55	Characterization of the microvascular cerebral blood flow response to obstructive apneic events during night sleep. <i>Neurophotonics</i> , 2018, 5, 1.	3.3	10
56	Cerebral vasoreactivity in response to a head-of-bed position change is altered in patients with moderate and severe obstructive sleep apnea. <i>PLoS ONE</i> , 2018, 13, e0194204.	2.5	5
57	High-density speckle contrast optical tomography (SCOT) for three dimensional tomographic imaging of the small animal brain. <i>NeuroImage</i> , 2017, 153, 283-292.	4.2	21
58	Pre-clinical longitudinal monitoring of hemodynamic response to anti-vascular chemotherapy by hybrid diffuse optics. <i>Biomedical Optics Express</i> , 2017, 8, 2563.	2.9	5
59	Depth sensitivity of frequency domain optical measurements in diffusive media. <i>Biomedical Optics Express</i> , 2017, 8, 2990.	2.9	12
60	Time-Domain Functional Diffuse Optical Tomography System Based on Fiber-Free Silicon Photomultipliers. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 1235.	2.5	16
61	Longitudinal, transcranial measurement of functional activation in the rat brain by diffuse correlation spectroscopy. <i>Neurophotonics</i> , 2017, 4, 1.	3.3	3
62	Evaluation of the temporal auto-correlation function sensitivity to Brownian motion in the radiative transport regime. , 2017, , .		0
63	Diffuse Optical Characterization of the Healthy Human Thyroid Tissue and Two Pathological Case Studies. <i>PLoS ONE</i> , 2016, 11, e0147851.	2.5	34
64	Chemotherapeutic drug-specific alteration of microvascular blood flow in murine breast cancer as measured by diffuse correlation spectroscopy. <i>Biomedical Optics Express</i> , 2016, 7, 3610.	2.9	9
65	Development and applications of diffuse correlation spectroscopy for non-invasive measurement of blood flow in clinics. , 2016, , .		0
66	Scanning, non-contact, hybrid broadband diffuse optical spectroscopy and diffuse correlation spectroscopy system. <i>Biomedical Optics Express</i> , 2016, 7, 481.	2.9	9
67	Broadband (600-1350 nm) Time-Resolved Diffuse Optical Spectrometer for Clinical Use. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2016, 22, 406-414.	2.9	66
68	Blood Flow Response to Orthostatic Challenges in Health and Diseased Populations. , 2016, , .		1
69	In Vivo, Non-Invasive Characterization of Human Bone by Hybrid Broadband (600-1200 nm) Diffuse Optical and Correlation Spectroscopies. <i>PLoS ONE</i> , 2016, 11, e0168426.	2.5	23
70	A new method utilizing novel single-photon avalanche diode arrays for multi-exposure laser speckle flowmetry. , 2016, , .		0
71	High density speckle contrast optical tomography for transcranial, three-dimensional imaging of cerebral blood flow in rodents. , 2016, , .		0
72	Concurrent diffuse optical measurement of cerebral hemodynamics and EEG during transcranial direct current stimulation (tDCS) in humans. , 2016, , .		0

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73	Cerebral hemodynamic response to an orthostatic challenge in patients with severe obstructive sleep apnea before and after two years of continuous positive air pressure treatment. , 2016, , .		0
74	Diffuse correlation spectroscopy and tomography for longitudinal monitoring of blood flow changes induced by chemotherapy in breast cancer xenografts. , 2016, , .		0
75	A non-contact, small animal scanner based on diffuse optical spectroscopy and diffuse correlation spectroscopy. , 2016, , .		0
76	Measurement of haemodynamics of exercising and non-exercising vastus lateralis muscle with hybrid diffuse optics. , 2016, , .		0
77	In vivo Time domain Broadband (600 -1200 nm) Diffuse Optical Characterization of Human Bone. , 2016, , .		0
78	Characterization of cerebral hemodynamics during obstructive sleep apnea by diffuse optics. , 2016, , .		0
79	Cerebral metabolism and blood flow during bispectral index-controlled, propofol-induced anesthesia assessed by hybrid diffuse optics. , 2016, , .		0
80	Diffuse optical characterization of the human thyroid. , 2016, , .		0
81	Latest developments in speckle contrast optical tomography (SCOT) for deep tissue blood flow imaging. , 2016, , .		0
82	Long-lasting, liquid phantom for diffuse optical and correlation spectroscopies. , 2016, , .		1
83	Time-resolved diffused optical characterization of key tissue constituents of human bony prominence locations. Proceedings of SPIE, 2015, , .	0.8	7
84	Pressure modulation algorithm to separate cerebral hemodynamic signals from extracerebral artifacts. Neurophotonics, 2015, 2, 035004.	3.3	70
85	Broadband time-resolved diffuse optical spectrometer for clinical diagnostics: characterization and in-vivo measurements in the 600-1350 nm spectral range. , 2015, , .		4
86	Fiber-based hybrid probe for non-invasive cerebral monitoring in neonatology. Proceedings of SPIE, 2015, , .	0.8	1
87	Calibration of diffuse correlation spectroscopy blood flow index with venous-occlusion diffuse optical spectroscopy in skeletal muscle. Journal of Biomedical Optics, 2015, 20, 125005.	2.6	21
88	Towards next generation time-domain diffuse optics devices. , 2015, , .		2
89	Multidistance diffuse correlation spectroscopy for simultaneous estimation of blood flow index and optical properties. Journal of Biomedical Optics, 2015, 20, 055001.	2.6	23
90	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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91	Non-contact scanning diffuse correlation tomography system for three-dimensional blood flow imaging in a murine bone graft model. Biomedical Optics Express, 2015, 6, 2695.	2.9	19
92	High-speed multi-exposure laser speckle contrast imaging with a single-photon counting camera. Biomedical Optics Express, 2015, 6, 2865.	2.9	46
93	Fast silicon photomultiplier improves signal harvesting and reduces complexity in time-domain diffuse optics. Optics Express, 2015, 23, 13937.	3.4	68
94	Towards non-invasive imaging of surgical suture degradation with photoacoustic microscopy. Proceedings of SPIE, 2015, , .	0.8	0
95	Time-domain diffuse optics: towards next generation devices. , 2015, , .		1
96	Fiber-based hybrid probe for non-invasive cerebral monitoring in neonatology. , 2015, , .		1
97	Broadband Time-Resolved Diffuse Optical Spectrometer for Clinical Diagnostics: Characterization and in-vivo Measurements in the 600-1350 nm spectral range. , 2015, , .		1
98	Time-resolved diffused optical characterization of key tissue constituents of human bony prominence locations. , 2015, , .		1
99	Time-domain diffuse optics: towards next generation devices. , 2015, , .		0
100	Towards non-invasive imaging of surgical suture degradation with photoacoustic microscopy. , 2015, , .		0
101	Optically Measured Microvascular Blood Flow Contrast of Malignant Breast Tumors. PLoS ONE, 2014, 9, e99683.	2.5	39
102	Hardware simulator for optical correlation spectroscopy with Gaussian statistics and arbitrary correlation functions. Optics Express, 2014, 22, 28002.	3.4	3
103	The effect of obstructive sleep apnea on the cerebral blood flow response to orthostatic stress. , 2014, , .		0
104	Bedside monitoring of cerebral blood flow in the hyper-acute phase of ischemic stroke. , 2014, , .		2
105	Speckle contrast optical tomography: A new method for deep tissue three-dimensional tomography of blood flow. Biomedical Optics Express, 2014, 5, 1275.	2.9	77
106	Speckle contrast optical spectroscopy, a non-invasive, diffuse optical method for measuring microvascular blood flow in tissue. Biomedical Optics Express, 2014, 5, 2769.	2.9	106
107	Mannose-Binding Lectin Promotes Local Microvascular Thrombosis After Transient Brain Ischemia in Mice. Stroke, 2014, 45, 1453-1459.	2.0	45
108	Noninvasive characterization of the healthy human manubrium using diffuse optical spectroscopies. Physiological Measurement, 2014, 35, 1469-1491.	2.1	28

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109	Transcranial diffuse optical monitoring of microvascular cerebral hemodynamics after thrombolysis in ischemic stroke. <i>Journal of Biomedical Optics</i> , 2014, 19, 018002.	2.6	15
110	Microvascular versus Macrovascular Cerebral Vasomotor Reactivity in Patients with Severe Internal Carotid Artery Stenosis or Occlusion. <i>Academic Radiology</i> , 2014, 21, 168-174.	2.5	18
111	Continuous Optical Monitoring of Cerebral Hemodynamics During Head-of-Bed Manipulation in Brain-Injured Adults. <i>Neurocritical Care</i> , 2014, 20, 443-453.	2.4	56
112	Optical Bedside Monitoring of Cerebral Blood Flow in Acute Ischemic Stroke Patients During Head-of-Bed Manipulation. <i>Stroke</i> , 2014, 45, 1269-1274.	2.0	78
113	Diffuse correlation spectroscopy for non-invasive, micro-vascular cerebral blood flow measurement. <i>NeuroImage</i> , 2014, 85, 51-63.	4.2	405
114	Blood Flow Reduction in Breast Tissue due to Mammographic Compression. <i>Academic Radiology</i> , 2014, 21, 151-161.	2.5	23
115	The potential of photoacoustic microscopy as a tool to characterize the in vivo degradation of surgical sutures. <i>Biomedical Optics Express</i> , 2014, 5, 2856.	2.9	6
116	Speckle contrast optical tomography (SCOT): Reconstructing the three dimensional distribution of blood flow in deep tissues. , 2014, , .		0
117	Quantification of early hemodynamic changes induced by cyclophosphamide on breast cancer xenografts using diffuse optics. , 2014, , .		0
118	Early postoperative changes in cerebral oxygen metabolism following neonatal cardiac surgery: Effects of surgical duration. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2013, 145, 196-205.e1.	0.8	55
119	Toward Noninvasive Characterization of Breast Cancer and Cancer Metabolism with Diffuse Optics. <i>PET Clinics</i> , 2013, 8, 345-365.	3.0	32
120	Pulsatile and steady-state hemodynamics of the human patella bone by diffuse optical spectroscopy. <i>Physiological Measurement</i> , 2013, 34, 839-857.	2.1	24
121	Neurovascular Coupling Varies with Level of Global Cerebral Ischemia in a Rat Model. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2013, 33, 97-105.	4.3	37
122	Optical malignancy parameters for monitoring progression of breast cancer neoadjuvant chemotherapy. <i>Biomedical Optics Express</i> , 2013, 4, 105.	2.9	25
123	Diffuse optical characterization of an exercising patient group with peripheral artery disease. <i>Journal of Biomedical Optics</i> , 2013, 18, 057007.	2.6	27
124	Blood flow and oxygenation changes due to low-frequency repetitive transcranial magnetic stimulation of the cerebral cortex. <i>Journal of Biomedical Optics</i> , 2013, 18, 067006.	2.6	36
125	Sodium bicarbonate causes dose-dependent increases in cerebral blood flow in infants and children with single-ventricle physiology. <i>Pediatric Research</i> , 2013, 73, 668-673.	2.3	20
126	A low memory cost model based reconstruction algorithm exploiting translational symmetry for photoacoustic microscopy. <i>Biomedical Optics Express</i> , 2013, 4, 2813.	2.9	16

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127	Validation of diffuse correlation spectroscopic measurement of cerebral blood flow using phase-encoded velocity mapping magnetic resonance imaging. Journal of Biomedical Optics, 2012, 17, 037007.	2.6	77
128	Diffuse Optical Monitoring of the Neoadjuvant Breast Cancer Therapy. IEEE Journal of Selected Topics in Quantum Electronics, 2012, 18, 1367-1386.	2.9	61
129	Low-cost diffuse optical tomography for the classroom. American Journal of Physics, 2012, 80, 876-881.	0.7	5
130	Diffuse Correlation Spectroscopy for Flow Assessment & Management of Acute Ischemic Stroke. , 2012, , .		1
131	Computer Aided Monitoring of Neoadjuvant Chemotherapy for Breast Cancer. , 2012, , .		0
132	Cerebral vasomotor reactivity in micro- and macro-vasculature of patients with severe steno-occlusive internal carotid artery lesions. , 2012, , .		1
133	Early Changes in Breast Cancer Blood Flow due to Chemotherapy: Potential Predictor for Therapeutic Efficacy. , 2012, , .		0
134	Microvascular Blood Flow Changes in Human Breast During Simulated Mammography. , 2012, , .		0
135	Bed-side neuro-critical monitoring with hybrid diffuse optics. , 2012, , .		0
136	Direct measurement of tissue blood flow and metabolism with diffuse optics. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2011, 369, 4390-4406.	3.4	151
137	Computer aided automatic detection of malignant lesions in diffuse optical mammography. Medical Physics, 2010, 37, 1840-1849.	3.0	24
138	Noninvasive Measurement of Cerebral Blood Flow and Blood Oxygenation Using Near-Infrared and Diffuse Correlation Spectroscopies in Critically Brain-Injured Adults. Neurocritical Care, 2010, 12, 173-180.	2.4	255
139	Noninvasive Cerebral Perfusion Imaging in High-Risk Neonates. Seminars in Perinatology, 2010, 34, 46-56.	2.5	54
140	The biological effect of contralateral forepaw stimulation in rat focal cerebral ischemia: a multispectral optical imaging study. Frontiers in Neuroenergetics, 2010, 2, .	5.3	14
141	The effects of healthy aging on cerebral hemodynamic responses to posture change. Physiological Measurement, 2010, 31, 477-495.	2.1	60
142	Optical measurement of cerebral hemodynamics and oxygen metabolism in neonates with congenital heart defects. Journal of Biomedical Optics, 2010, 15, 037004.	2.6	157
143	Effects of muscle fiber motion on diffuse correlation spectroscopy blood flow measurements during exercise. Biomedical Optics Express, 2010, 1, 500.	2.9	48
144	Effects of acetazolamide on the micro- and macro-vascular cerebral hemodynamics: a diffuse optical and transcranial doppler ultrasound study. Biomedical Optics Express, 2010, 1, 1443.	2.9	43

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145	Compressed sensing in diffuse optical tomography. <i>Optics Express</i> , 2010, 18, 23676.	3.4	67
146	Diffuse Optical Measurements of Cerebral Blood Flow and Blood Oxygenation during Head Elevation in Healthy and Brain-Injured Adults. , 2010, , .		0
147	Computer-Aided Detection of Tumors in 3D Tomograms from Diffuse Optical Mammography. , 2010, , .		0
148	Breast Cancer Therapy Monitoring with Diffuse Optical Tomography and Diffuse Correlation Spectroscopy. , 2010, , .		0
149	Near-Infrared, Diffuse-Correlation-Spectroscopy evaluation of cerebral hemodynamics with Acetazolamide challenge in healthy and acute ischemic stroke subjects. , 2010, , .		0
150	Concurrent MRI and Diffuse Correlation & Near-Infrared Spectroscopic Measurement of Cerebral Hemodynamic Response to Hypercapnia and Hyperoxia. , 2010, , .		0
151	Epidermal Growth Factor Receptor Inhibition Modulates the Microenvironment by Vascular Normalization to Improve Chemotherapy and Radiotherapy Efficacy. <i>PLoS ONE</i> , 2009, 4, e6539.	2.5	110
152	Diffuse optical monitors for bed-side monitoring of cerebral hemodynamics at the neuro-intensive care unit. , 2009, , .		2
153	Diffuse optical monitoring of hemodynamic changes in piglet brain with closed head injury. <i>Journal of Biomedical Optics</i> , 2009, 14, 034015.	2.6	162
154	Differentiation of benign and malignant breast tumors by in-vivo three-dimensional parallel-plate diffuse optical tomography. <i>Journal of Biomedical Optics</i> , 2009, 14, 024020.	2.6	189
155	Characterization of periinfarct flow transients with laser speckle and Doppler after middle cerebral artery occlusion in the rat. <i>Journal of Neuroscience Research</i> , 2009, 87, 1219-1229.	2.9	33
156	Transcranial optical monitoring of cerebrovascular hemodynamics in acute stroke patients. <i>Optics Express</i> , 2009, 17, 3884.	3.4	149
157	Cerebral hemodynamics in preterm infants during positional intervention measured with diffuse correlation spectroscopy and transcranial Doppler ultrasound. <i>Optics Express</i> , 2009, 17, 12571.	3.4	159
158	Fluence rate-dependent intratumor heterogeneity in physiologic and cytotoxic responses to Photofrin photodynamic therapy. <i>Photochemical and Photobiological Sciences</i> , 2009, 8, 1683-1693.	2.9	59
159	Acute Functional Recovery of Cerebral Blood Flow after Forebrain Ischemia in Rat. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2008, 28, 1275-1284.	4.3	27
160	Diffuse Optical Monitoring of Cerebral Oxygen Metabolism at the Bed-Side in Cerebrovascular Disorders. , 2008, , .		3
161	Non-invasive Measurement of Cerebral Autoregulation of Acute Ischemic Stroke Patients with Diffuse Correlation/Wave Spectroscopy. , 2008, , .		0
162	Noninvasive Diffuse Optical Measurement for Monitoring Hemodynamic Response of Radiation Treatment in Head and Neck Tumors. , 2008, , .		0

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163	In Vivo Breast Cancer Characterization and Therapy Monitoring using Diffuse Optical Methods based on Endogenous Optical/Exogenous Fluorescence Contrast. , 2008, , .		0
164	Heat and Cold on the Back Modulate Blood Flow in Distant Skeletal Muscles. Medicine and Science in Sports and Exercise, 2008, 40, S71.	0.4	0
165	Diffuse optical monitoring of blood flow and oxygenation in human breast cancer during early stages of neoadjuvant chemotherapy. Journal of Biomedical Optics, 2007, 12, 051903.	2.6	169
166	Transmission RF diffuse optical tomography instrument for human breast imaging. Proceedings of SPIE, 2007, , .	0.8	4
167	Validation of diffuse correlation spectroscopy for muscle blood flow with concurrent arterial spin labeled perfusion MRI. Optics Express, 2007, 15, 1064.	3.4	198
168	Three-dimensional in vivo fluorescence diffuse optical tomography of breast cancer in humans. Optics Express, 2007, 15, 6696.	3.4	357
169	Hemodynamic responses to antivasular therapy and ionizing radiation assessed by diffuse optical spectroscopies. Optics Express, 2007, 15, 15507.	3.4	51
170	Noninvasive diffuse optical measurement of blood flow and blood oxygenation for monitoring radiation therapy in patients with head and neck tumors: a pilot study. Journal of Biomedical Optics, 2006, 11, 064021.	2.6	112
171	Diffuse optical correlation tomography of cerebral blood flow during cortical spreading depression in rat brain. Optics Express, 2006, 14, 1125.	3.4	197
172	Real-time In Situ Monitoring of Human Prostate Photodynamic Therapy with Diffuse Light. Photochemistry and Photobiology, 2006, 82, 1279.	2.5	102
173	Real-time Monitoring of Hemodynamic Changes in Neonatal Pig Brain with Head Trauma Injury. , 2006, , .		2
174	Functional Imaging of Blood Flow in Brain and in Tumors during Therapy. , 2006, , .		0
175	White light diffuse optical tomography and validation of optimum wavelengths for CW DOT. , 2006, , .		0
176	Assessment of Muscle Vascular Disease with Diffuse Light. , 2006, , .		0
177	Optical Methods for Tissue Hemo-Dynamics and Metabolism. , 2006, , .		0
178	Noise Model for Laser Speckle Contrast Imaging. , 2006, , .		0
179	Neoadjuvant Chemtherapy Monitoring with Diffuse Optical Measurement of Blood Flow in Breast Tumors. , 2006, , .		0
180	Breast Cancer Detection and Characterization using 3D Diffuse Optical Tomography. , 2006, , .		0

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181	Noninvasive Monitoring of Murine Tumor Blood Flow During and After Photodynamic Therapy Provides Early Assessment of Therapeutic Efficacy. <i>Clinical Cancer Research</i> , 2005, 11, 3543-3552.	7.0	213
182	Diffuse optical tomography of breast cancer during neoadjuvant chemotherapy: A case study with comparison to MRI. <i>Medical Physics</i> , 2005, 32, 1128-1139.	3.0	261
183	Diffuse optical tomography with spectral constraints and wavelength optimization. <i>Applied Optics</i> , 2005, 44, 2082.	2.1	192
184	Diffuse optical measurement of blood flow in breast tumors. <i>Optics Letters</i> , 2005, 30, 2915.	3.3	143
185	Time-dependent blood flow and oxygenation in human skeletal muscles measured with noninvasive near-infrared diffuse optical spectroscopies. <i>Journal of Biomedical Optics</i> , 2005, 10, 024027.	2.6	192
186	Diffuse optical measurement of cerebral metabolic rate of oxygen in adult brain. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2005, 25, S412-S412.	4.3	0
187	Development of diffuse correlation techniques for non-invasive measurement of cerebral blood flow and oxygen metabolism in rats. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2005, 25, S413-S413.	4.3	0
188	Spatio-Temporal Quantification of Cerebral Blood Flow During Forepaw Stimulation of the Rat Using Laser Speckle Flowmetry. , 2004, , FE4.		0
189	Spatiotemporal Quantification of Cerebral Blood Flow during Functional Activation in Rat Somatosensory Cortex using Laser-Speckle Flowmetry. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2004, 24, 518-525.	4.3	163
190	Diffuse optical measurement of blood flow, blood oxygenation, and metabolism in a human brain during sensorimotor cortex activation. <i>Optics Letters</i> , 2004, 29, 1766.	3.3	311
191	Regularization of diffuse optical tomography images by envelope guided conjugate gradients. , 2004, , .		2
192	Artifact Reduction in CW Transmission Diffuse Optical Tomography. , 2004, , .		3
193	Optimum wavelengths in continuous-wave multi-spectral diffuse optical tomography. , 2004, , .		0
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