

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

57 papers	878 citations	17 h-index	28 g-index
61 ext. papers	1,085 ext. citations	3.6 avg, IF	4.14 L-index

#	Paper	IF	Citations
57	Exploring Neuro-Physiological Correlates of Drivers' Mental Fatigue Caused by Sleep Deprivation Using Simultaneous EEG, ECG, and fNIRS Data. <i>Frontiers in Human Neuroscience</i> , 2016 , 10, 219	3.3	99
56	Utilization of a combined EEG/NIRS system to predict driver drowsiness. <i>Scientific Reports</i> , 2017 , 7, 43933	4.9	64
55	Interplay of tumor vascular oxygenation and tumor pO ₂ observed using near-infrared spectroscopy, an oxygen needle electrode, and 19F MR pO ₂ mapping. <i>Journal of Biomedical Optics</i> , 2003 , 8, 53-62	3.5	58
54	Spatial frequency domain imaging of intrinsic optical property contrast in a mouse model of Alzheimer's disease. <i>Annals of Biomedical Engineering</i> , 2011 , 39, 1349-57	4.7	54
53	Comparison of cobinamide to hydroxocobalamin in reversing cyanide physiologic effects in rabbits using diffuse optical spectroscopy monitoring. <i>Journal of Biomedical Optics</i> , 2010 , 15, 017001	3.5	47
52	Intramuscular cobinamide sulfite in a rabbit model of sublethal cyanide toxicity. <i>Annals of Emergency Medicine</i> , 2010 , 55, 352-63	2.1	46
51	Extinction coefficients of hemoglobin for near-infrared spectroscopy of tissue. <i>IEEE Engineering in Medicine and Biology Magazine</i> , 2005 , 24, 118-21		45
50	Sulfanegen sodium treatment in a rabbit model of sub-lethal cyanide toxicity. <i>Toxicology and Applied Pharmacology</i> , 2010 , 248, 269-76	4.6	35
49	Dynamic response of breast tumor oxygenation to hyperoxic respiratory challenge monitored with three oxygen-sensitive parameters. <i>Applied Optics</i> , 2003 , 42, 2960-7	1.7	35
48	PAX6 suppression of glioma angiogenesis and the expression of vascular endothelial growth factor A. <i>Journal of Neuro-Oncology</i> , 2010 , 96, 191-200	4.8	27
47	Monitoring cerebral hemodynamic change during transcranial ultrasound stimulation using optical intrinsic signal imaging. <i>Scientific Reports</i> , 2017 , 7, 13148	4.9	25
46	Exploring brain functional connectivity in rest and sleep states: a fNIRS study. <i>Scientific Reports</i> , 2018 , 8, 16144	4.9	24
45	In vivo near-infrared spectroscopy and magnetic resonance imaging monitoring of tumor response to combretastatin A-4-phosphate correlated with therapeutic outcome. <i>International Journal of Radiation Oncology Biology Physics</i> , 2011 , 80, 574-81	4	22
44	Investigation of brain functional connectivity in patients with mild cognitive impairment: A functional near-infrared spectroscopy (fNIRS) study. <i>Journal of Biophotonics</i> , 2019 , 12, e201800298	3.1	21
43	Simultaneous blood flow and blood oxygenation measurements using a combination of diffuse speckle contrast analysis and near-infrared spectroscopy. <i>Journal of Biomedical Optics</i> , 2016 , 21, 27001	3.5	21
42	Recent functional near infrared spectroscopy based brain computer interface systems: Developments, applications and challenges. <i>Biomedical Engineering Letters</i> , 2014 , 4, 223-230	3.6	20
41	Near-infrared spectroscopy and imaging of tumor vascular oxygenation. <i>Methods in Enzymology</i> , 2004 , 386, 349-78	1.7	20

40	Low-cost compact diffuse speckle contrast flowmeter using small laser diode and bare charge-coupled-device. <i>Journal of Biomedical Optics</i> , 2016 , 21, 80501	3.5	15
39	Noninvasive optical cytochrome c oxidase redox state measurements using diffuse optical spectroscopy. <i>Journal of Biomedical Optics</i> , 2014 , 19, 055001	3.5	13
38	Diffuse reflectance spectroscopy to quantify the met-myoglobin proportion and meat oxygenation inside of pork and beef. <i>Food Chemistry</i> , 2019 , 275, 369-376	8.5	13
37	Investigation of biphasic tumor oxygen dynamics induced by hyperoxic gas intervention: the dynamic phantom approach. <i>Applied Optics</i> , 2008 , 47, 242-52	1.7	12
36	Imaging of the Finger Vein and Blood Flow for Anti-Spoofing Authentication Using a Laser and a MEMS Scanner. <i>Sensors</i> , 2017 , 17,	3.8	11
35	Tissue hemoglobin monitoring of progressive central hypovolemia in humans using broadband diffuse optical spectroscopy. <i>Journal of Biomedical Optics</i> , 2008 , 13, 064027	3.5	11
34	Changes in thalamo-frontal interaction under different levels of anesthesia in rats. <i>Neuroscience Letters</i> , 2016 , 627, 18-23	3.3	11
33	Broadband diffuse optical spectroscopy assessment of hemorrhage- and hemoglobin-based blood substitute resuscitation. <i>Journal of Biomedical Optics</i> , 2009 , 14, 044027	3.5	10
32	Noninvasive in vivo monitoring of cyanide toxicity and treatment using diffuse optical spectroscopy in a rabbit model. <i>Military Medicine</i> , 2009 , 174, 615-21	1.3	10
31	Synthesis and antitumor molecular mechanism of agents based on amino 2-(3,4,5-trimethoxybenzoyl)benzo[b]furan: inhibition of tubulin and induction of apoptosis. <i>ChemMedChem</i> , 2011 , 6, 1841-53	3.7	9
30	Noninvasive monitoring of treatment response in a rabbit cyanide toxicity model reveals differences in brain and muscle metabolism. <i>Journal of Biomedical Optics</i> , 2012 , 17, 105005	3.5	9
29	Investigation of rat breast tumour oxygen consumption by near-infrared spectroscopy. <i>Journal Physics D: Applied Physics</i> , 2005 , 38, 2682-2690	3	9
28	A discrepancy of penile hemodynamics during visual sexual stimulation observed by near-infrared spectroscopy. <i>BMC Urology</i> , 2015 , 15, 11	2.2	7
27	Rapid and non-destructive spectroscopic method for classifying beef freshness using a deep spectral network fused with myoglobin information. <i>Food Chemistry</i> , 2021 , 352, 129329	8.5	7
26	Non-invasive measurement of hemodynamic change during 8MHz transcranial focused ultrasound stimulation using near-infrared spectroscopy. <i>BMC Neuroscience</i> , 2019 , 20, 12	3.2	6
25	Development of simple diffuse optical metabolic spectroscopy for tissue metabolism measurement. <i>Biomedical Optics Express</i> , 2019 , 10, 2956-2966	3.5	6
24	Monitoring cerebral oxygenation and local field potential with a variation of isoflurane concentration in a rat model. <i>Biomedical Optics Express</i> , 2016 , 7, 4114-4124	3.5	6
23	Preliminary Study of Gender-Based Brain Lateralization Using Multi-Channel Near-Infrared Spectroscopy. <i>Journal of the Optical Society of Korea</i> , 2015 , 19, 284-296		5

22	Change of tumor vascular reactivity during tumor growth and postchemotherapy observed by near-infrared spectroscopy. <i>Journal of Biomedical Optics</i> , 2017 , 22, 121603	3.5	4
21	Wearable Transcranial Ultrasound System for Remote Stimulation of Freely Moving Animal. <i>IEEE Transactions on Biomedical Engineering</i> , 2021 , 68, 2195-2202	5	4
20	Met-myoglobin formation, accumulation, degradation, and myoglobin oxygenation monitoring based on multiwavelength attenuation measurement in porcine meat. <i>Journal of Biomedical Optics</i> , 2016 , 21, 57002	3.5	4
19	Heart and Lung Sound Measurement Using an Esophageal Stethoscope with Adaptive Noise Cancellation. <i>Sensors</i> , 2021 , 21,	3.8	3
18	The hemodynamic changes during cupping therapy monitored by using an optical sensor embedded cup. <i>Journal of Biophotonics</i> , 2019 , 12, e201800286	3.1	3
17	The changes of cerebral hemodynamics during ketamine induced anesthesia in a rat model. <i>Journal of Biophotonics</i> , 2018 , 11, e201800081	3.1	3
16	Effects of transcranial ultrasound stimulation pulsed at 40Hz on A β plaques and brain rhythms in 5FAD mice. <i>Translational Neurodegeneration</i> , 2021 , 10, 48	10.3	3
15	Design of an Optical Probe to Monitor Vaginal Hemodynamics during Sexual Arousal. <i>Sensors</i> , 2019 , 19,	3.8	2
14	Investigation of bi-phasic tumor oxygen dynamics induced by hyperoxic gas intervention: A numerical study. <i>Optics Express</i> , 2005 , 13, 4465-75	3.3	2
13	Nonuniform tumor vascular oxygen dynamics monitored by three-channel near-infrared spectroscopy 2003 ,		2
12	Interplay of tumor vascular oxygenation and pO ₂ in tumors using NIRS and needle electrode 2001 , 4250, 429		2
11	Breast tumor hemodynamic response during a breath-hold as a biomarker to predict chemotherapeutic efficacy: preclinical study. <i>Journal of Biomedical Optics</i> , 2018 , 23, 1-5	3.5	2
10	Differential modulation of thalamo-parietal interactions by varying depths of isoflurane anesthesia. <i>PLoS ONE</i> , 2017 , 12, e0175191	3.7	2
9	An approach for correcting optical paths of different wavelength lasers in diffusive medium based on Monte Carlo simulation. <i>Optics and Laser Technology</i> , 2019 , 120, 105712	4.2	1
8	Longitudinal Raman Spectroscopic Observation of Skin Biochemical Changes due to Chemotherapeutic Treatment for Breast Cancer in Small Animal Model. <i>Journal of Spectroscopy</i> , 2017 , 2017, 1-9	1.5	1
7	Brca1/p53 deficient mouse breast tumor hemodynamics during hyperoxic respiratory challenge monitored by a novel wide-field functional imaging (WIFI) system 2009 ,		1
6	A simple but quantitative method for non-destructive monitoring of myoglobin redox forms inside the meat. <i>Journal of Food Science and Technology</i> , 2019 , 56, 5354-5361	3.3	1
5	Analysis of relation between skin elasticity and the entropy of skin image using near-infrared and visible light sources. <i>Journal of Biophotonics</i> , 2020 , 13, e201900213	3.1	1

4	Simultaneous Monitoring of Hemodynamic Response in the Pre-Frontal Cortex and Genital Organ During Sexual Arousal Using Near-Infrared Spectroscopy. <i>Sexual Medicine</i> , 2018 , 6, 234-238	2.7	1
3	Novel diagnostic tools for identifying cognitive impairment using olfactory-stimulated functional near-infrared spectroscopy: patient-level, single-group, diagnostic trial.. <i>Alzheimer's Research and Therapy</i> , 2022 , 14, 39	9	0
2	Deep Learning-Based Multilevel Classification of Alzheimer's Disease Using Non-invasive Functional Near-Infrared Spectroscopy.. <i>Frontiers in Aging Neuroscience</i> , 2022 , 14, 810125	5.3	0
1	Changes of Apomorphine-Induced Vaginal Hemodynamics in an Ovariectomized Rat Model Using Near-Infrared Spectroscopic Probe. <i>Journal of Sexual Medicine</i> , 2021 , 18, 1328-1336	1.1	