Anna Gerega

List of Publications by Year
in descending order

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30 papers	445 citations	759233 12 h-index	713466 21 g-index
30 all docs	30 docs citations	30 times ranked	454 citing authors

#	Article	IF	Citations
1	Application of optical methods in the monitoring of traumatic brain injury: A review. Journal of Cerebral Blood Flow and Metabolism, 2016, 36, 1825-1843.	4.3	64
2	Systematic Effect of Benzo-Annelation on Oxoâ^'Hydroxy Tautomerism of Heterocyclic Compounds. Experimental Matrix-Isolation and Theoretical Study. Journal of Physical Chemistry A, 2007, 111, 4934-4943.	2.5	59
3	Wavelength-resolved measurements of fluorescence lifetime of indocyanine green. Journal of Biomedical Optics, 2011, 16, 067010.	2.6	49
4	Variance of time-of-flight distribution is sensitive to cerebral blood flow as demonstrated by ICG bolus-tracking measurements in adult pigs. Biomedical Optics Express, 2013, 4, 206.	2.9	30
5	Time-resolved detection of fluorescent light during inflow of ICG to the brainâ€"a methodological study. Physics in Medicine and Biology, 2012, 57, 6725-6742.	3.0	26
6	Multiwavelength time-resolved near-infrared spectroscopy of the adult head: assessment of intracerebral and extracerebral absorption changes. Biomedical Optics Express, 2018, 9, 2974.	2.9	26
7	Optimization of the method for assessment of brain perfusion in humans using contrast-enhanced reflectometry: multidistance time-resolved measurements. Journal of Biomedical Optics, 2015, 20, 106013.	2.6	21
8	UV-induced generation of rare tautomers of allopurinol and 9-methylhypoxanthine â€" A matrix isolation FTIR study. Biophysical Chemistry, 2006, 122, 123-135.	2.8	19
9	Multiwavelength time-resolved detection of fluorescence during the inflow of indocyanine green into the adultâ€™s brain. Journal of Biomedical Optics, 2012, 17, 087001.	2.6	19
10	Confirmation of brain death using optical methods based on tracking of an optical contrast agent: assessment of diagnostic feasibility. Scientific Reports, 2018, 8, 7332.	3.3	18
11	Neurotoxic effects of indocyanine green -cerebellar granule cell culture viability study. Biomedical Optics Express, 2014, 5, 800.	2.9	17
12	UV-Induced Oxo â†' Hydroxy Unimolecular Proton-Transfer Reactions in Hypoxanthine. Journal of Physical Chemistry A, 2006, 110, 10236-10244.	2.5	15
13	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
14	Self-calibrating time-resolved near infrared spectroscopy. Biomedical Optics Express, 2019, 10, 2657.	2.9	10
15	Multi-laboratory performance assessment of diffuse optics instruments: the BitMap exercise. Journal of Biomedical Optics, 2022, 27, .	2.6	9
16	Thioperoxy Derivative Generated by UV-Induced Transformation of N-Hydroxypyridine-2(1H)-thione Isolated in Low-Temperature Matrixes. Journal of Physical Chemistry A, 2008, 112, 238-248.	2.5	8
17	Fluorescence-based method for assessment of blood-brain barrier disruption. , 2013, 2013, 3040-2.		8
18	A Monte Carlo study of fluorescence generation probability in a two-layered tissue model. Physics in Medicine and Biology, 2014, 59, 1407-1424.	3.0	8

#	Article	IF	Citations
19	Frequency analysis of oscillations in cerebral hemodynamics measured by time domain near infrared spectroscopy. Biomedical Optics Express, 2019, 10, 761.	2.9	7
20	Depth-resolved assessment of changes in concentration of chromophores using time-resolved near-infrared spectroscopy: estimation of cytochrome-c-oxidase uncertainty by Monte Carlo simulations. Biomedical Optics Express, 2019, 10, 4621.	2.9	6
21	UV-induced transformations of matrix-isolated 6-azacytosine. Journal of Chemical Physics, 2018, 149, 104301.	3.0	4
22	Assessment of the brain ischemia during orthostatic stress and lower body negative pressure in air force pilots by near-infrared spectroscopy. Biomedical Optics Express, 2020, 11, 1043.	2.9	3
23	Multi-wavelength time-resolved measurements of diffuse reflectance: phantom study with dynamic inflow of ICG. , 2012, , .		2
24	A multi-laboratory comparison of photon migration instruments and their performances: the BitMap exercise. , 2021, , .		2
25	Multi-wavelength time-resolved detection of fluorescence of indocyanine green circulating in the human head. , 2010, , .		1
26	Multi-wavelength time-resolved NIRS measurements for estimation of absolute concentration of chromophores: blood phantom study. , 2019, , .		1
27	Hemoglobin spectra and employed wavelengths affect estimation of concentration and oxygen saturation: blood-lipid phantom study. , 2021, , .		1
28	Evaluation of ICG washout based on time-resolved monitoring of fluorescence in patients with severe cerebral perfusion abnormalities. , 2014, , .		0
29	Assessment of brain perfusion disorders by ICG bolus tracking with time-resolved fluorescence monitoring. , 2012, , .		0
30	Time-resolved imaging of fluorescent inclusions in optically turbid medium: a phantom study. , 2012, , .		0