

D Fixler

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7642703/publications.pdf>

Version: 2024-02-01

96
papers

1,905
citations

201385

27
h-index

301761

39
g-index

98
all docs

98
docs citations

98
times ranked

1336
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthetic aperture superresolution by speckle pattern projection. <i>Optics Express</i> , 2005, 13, 6073.	1.7	102
2	<i>In vivo</i> Tumor detection using diffusion reflection measurements of targeted gold nanorods – a quantitative study. <i>Journal of Biophotonics</i> , 2012, 5, 263-273.	1.1	69
3	Tracing apoptosis and stimulation in individual cells by fluorescence intensity and anisotropy decay. <i>Journal of Biomedical Optics</i> , 2005, 10, 034007.	1.4	50
4	Diffusion Reflection and Fluorescence Lifetime Imaging Microscopy Study of Fluorophore-Conjugated Gold Nanoparticles or Nanorods in Solid Phantoms. <i>ACS Photonics</i> , 2014, 1, 900-905.	3.2	50
5	Gold Nanorods Based Air Scanning Electron Microscopy and Diffusion Reflection Imaging for Mapping Tumor Margins in Squamous Cell Carcinoma. <i>ACS Nano</i> , 2016, 10, 2349-2356.	7.3	50
6	Analysis of Early Apoptotic Events in Individual Cells by Fluorescence Intensity and Polarization Measurements. <i>Biochemical and Biophysical Research Communications</i> , 2002, 290, 1573-1582.	1.0	48
7	Differential aspects in ratio measurements of $[Ca^{2+}]_i$ relaxation in cardiomyocyte contraction following various drug treatments. <i>Cell Calcium</i> , 2002, 31, 279-287.	1.1	48
8	Nanoparticle uptake by macrophages in vulnerable plaques for atherosclerosis diagnosis. <i>Journal of Biophotonics</i> , 2015, 8, 871-883.	1.1	45
9	Influence of Fluorescence Anisotropy on Fluorescence Intensity and Lifetime Measurement: Theory, Simulations and Experiments. <i>IEEE Transactions on Biomedical Engineering</i> , 2006, 53, 1141-1152.	2.5	44
10	Linear optics based nanoscopy. <i>Optics Express</i> , 2010, 18, 22222.	1.7	44
11	An ultra-sensitive dual-mode imaging system using metal-enhanced fluorescence in solid phantoms. <i>Nano Research</i> , 2015, 8, 3912-3921.	5.8	44
12	Multimodal bioimaging based on gold nanorod and carbon dot nanohybrids as a novel tool for atherosclerosis detection. <i>Nano Research</i> , 2018, 11, 1262-1273.	5.8	44
13	Gold Nanorods as Absorption Contrast Agents for the Noninvasive Detection of Arterial Vascular Disorders Based on Diffusion Reflection Measurements. <i>Nano Letters</i> , 2014, 14, 2681-2687.	4.5	42
14	Reflected light intensity profile of two-layer tissues: phantom experiments. <i>Journal of Biomedical Optics</i> , 2011, 16, 085001.	1.4	41
15	Dependence of light scattering profile in tissue on blood vessel diameter and distribution: a computer simulation study. <i>Journal of Biomedical Optics</i> , 2013, 18, 111408.	1.4	41
16	Gold nanorods based diffusion reflection measurements: current status and perspectives for clinical applications. <i>Nanophotonics</i> , 2017, 6, 1031-1042.	2.9	41
17	Speckle random coding for 2D super resolving fluorescent microscopic imaging. <i>Micron</i> , 2007, 38, 121-128.	1.1	40
18	Photon Efficiency Optimization in Time-Correlated Single Photon Counting Technique for Fluorescence Lifetime Imaging Systems. <i>IEEE Transactions on Biomedical Engineering</i> , 2013, 60, 1571-1579.	2.5	40

#	ARTICLE	IF	CITATIONS
19	In Vivo Tumor Detection Using Polarization and Wavelength Reflection Characteristics of Gold Nanorods. <i>Nano Letters</i> , 2013, 13, 6292-6296.	4.5	39
20	Experimental system for measuring the full scattering profile of circular phantoms. <i>Biomedical Optics Express</i> , 2015, 6, 2877.	1.5	37
21	Cardioprotection from stress conditions by weak magnetic fields in the Schumann Resonance band. <i>Scientific Reports</i> , 2019, 9, 1645.	1.6	37
22	A microscope configuration for nanometer 3-D movement monitoring accuracy. <i>Micron</i> , 2011, 42, 366-375.	1.1	35
23	Subcutaneous gold nanorods detection with diffusion reflection measurement. <i>Journal of Biomedical Optics</i> , 2013, 18, 061226.	1.4	35
24	Concomitant real-time monitoring of intracellular reactive oxygen species and mitochondrial membrane potential in individual living promonocytic cells. <i>Journal of Immunological Methods</i> , 2006, 316, 27-41.	0.6	32
25	Determination of coherence length in biological tissues. <i>Lasers in Surgery and Medicine</i> , 2011, 43, 339-343.	1.1	31
26	Haemocompatibility of Modified Nanodiamonds. <i>Materials</i> , 2017, 10, 352.	1.3	30
27	Intercoupling surface plasmon resonance and diffusion reflection measurements for real-time cancer detection. <i>Journal of Biophotonics</i> , 2013, 6, 188-196.	1.1	29
28	Magnetite Nanoparticles: Synthesis and Applications in Optics and Nanophotonics. <i>Materials</i> , 2022, 15, 2601.	1.3	28
29	A new method for cancer detection based on diffusion reflection measurements of targeted gold nanorods. <i>International Journal of Nanomedicine</i> , 2012, 7, 449.	3.3	27
30	Detecting nanoparticles in tissue using an optical iterative technique. <i>Biomedical Optics Express</i> , 2014, 5, 3871.	1.5	27
31	Fluorescence for biological logic gates. <i>Journal of Biophotonics</i> , 2020, 13, e202000158.	1.1	27
32	Enhanced pharmacological activity of Vitamin B12 and Penicillin as nanoparticles. <i>International Journal of Nanomedicine</i> , 2015, 10, 3593.	3.3	26
33	Biological Logic Gate Using Gold Nanoparticles and Fluorescence Lifetime Imaging Microscopy. <i>ACS Applied Nano Materials</i> , 2019, 2, 6527-6536.	2.4	26
34	Diffusion Reflection. <i>Journal of Dental Research</i> , 2014, 93, 602-606.	2.5	25
35	Fluorescence lifetime imaging of DAPI-stained nuclei as a novel diagnostic tool for the detection and classification of B-cell chronic lymphocytic leukemia. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2016, 89, 644-652.	1.1	24
36	Gold nanorods reflectance discriminate benign from malignant oral lesions. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2017, 13, 1333-1339.	1.7	24

#	ARTICLE	IF	CITATIONS
37	Fluorescence Lifetime Imaging Microscopy, a Novel Diagnostic Tool for Metastatic Cell Detection in the Cerebrospinal Fluid of Children with Medulloblastoma. <i>Scientific Reports</i> , 2017, 7, 3648.	1.6	23
38	Carbon Dots-Based Logic Gates. <i>Nanomaterials</i> , 2021, 11, 232.	1.9	21
39	Detection of gold nanorods uptake by macrophages using scattering analyses combined with diffusion reflection measurements as a potential tool for in vivo atherosclerosis tracking. <i>International Journal of Nanomedicine</i> , 2015, 10, 4437.	3.3	19
40	Correlation of magnetic AC field on cardiac myocyte Ca^{2+} transients at different magnetic DC levels. <i>Bioelectromagnetics</i> , 2012, 33, 634-640.	0.9	18
41	Fluorescence lifetime imaging and steady state polarization for examining binding of fluorophores to gold nanoparticles. <i>Journal of Biophotonics</i> , 2015, 8, 944-951.	1.1	17
42	Experimental results of full scattering profile from finger tissue-like phantom. <i>Biomedical Optics Express</i> , 2016, 7, 4695.	1.5	17
43	Self-Calibration Phenomenon for Near-Infrared Clinical Measurements: Theory, Simulation, and Experiments. <i>ACS Omega</i> , 2018, 3, 2837-2844.	1.6	17
44	Detecting concentrations of milk components by an iterative optical technique. <i>Journal of Biophotonics</i> , 2015, 8, 979-984.	1.1	16
45	Optical method to extract the reduced scattering coefficient from tissue: theory and experiments. <i>Optics Letters</i> , 2018, 43, 5299.	1.7	16
46	The Scattering of Gold Nanorods Combined with Differential Uptake, Paving a New Detection Method for Macrophage Subtypes Using Flow Cytometry. <i>Nano Letters</i> , 2020, 20, 8360-8368.	4.5	15
47	Towards In Vivo Tumor Detection Using Polarization and Wavelength Characteristics of Self-Assembled Gold Nanorods. <i>ChemNanoMat</i> , 2017, 3, 736-739.	1.5	13
48	The Limitations of Nonlinear Fluorescence Effect in Super Resolution Saturated Structured Illumination Microscopy System. <i>Journal of Fluorescence</i> , 2011, 21, 1075-1082.	1.3	12
49	Time-averaged fluorescence intensity analysis in fluorescence fluctuation polarization sensitive experiments. <i>Biomedical Optics Express</i> , 2013, 4, 868.	1.5	12
50	The influence of the blood vessel diameter on the full scattering profile from cylindrical tissues: experimental evidence for the shielding effect. <i>Journal of Biophotonics</i> , 2016, 9, 1001-1008.	1.1	12
51	Pathogen Detection Using Frequency Domain Fluorescent Lifetime Measurements. <i>IEEE Transactions on Biomedical Engineering</i> , 2018, 65, 2731-2741.	2.5	11
52	Prelytic Stimulation of Target and Effector Cells Following Conjugation as Measured by Intracellular Fluorescein Fluorescence Polarization. <i>Journal of Biomedical Optics</i> , 1998, 3, 312.	1.4	10
53	Simulation of oxygen saturation measurement in a single blood vein. <i>Optics Letters</i> , 2016, 41, 4312.	1.7	10
54	Utilizing fluorescent life time imaging microscopy technology for identify carriers of BRCA2 mutation. <i>Biochemical and Biophysical Research Communications</i> , 2016, 480, 36-41.	1.0	10

#	ARTICLE	IF	CITATIONS
55	Near-infrared human finger measurements based on self-calibration point: Simulation and in vivo experiments. <i>Journal of Biophotonics</i> , 2018, 11, e201700208.	1.1	10
56	Media Characterization under Scattering Conditions by Nanophotonics Iterative Multiplane Spectroscopy Measurements. <i>ACS Omega</i> , 2019, 4, 14301-14306.	1.6	10
57	Depolarization of light in biological tissues. <i>Optics and Lasers in Engineering</i> , 2012, 50, 850-854.	2.0	9
58	Speckle-based configuration for simultaneous <i>in vitro</i> inspection of mechanical contractions of cardiac myocyte cells. <i>Journal of Biomedical Optics</i> , 2013, 18, 101310.	1.4	9
59	New optical sensing technique of tissue viability and blood flow based on nanophotonic iterative multi-plane reflectance measurements. <i>International Journal of Nanomedicine</i> , 2016, Volume 11, 5237-5244.	3.3	9
60	Gold Rod-Polyethylene Glycol-Carbon Dot Nanohybrids as Phototheranostic Probes. <i>Nanomaterials</i> , 2018, 8, 706.	1.9	9
61	Nanocrystalline diamond sheets as protective coatings for fiber-optic measurement head. <i>Carbon</i> , 2020, 156, 104-109.	5.4	9
62	Reference-independent wide field fluorescence lifetime measurements using Frequency-Domain (FD) technique based on phase and amplitude crossing point. <i>Journal of Biophotonics</i> , 2017, 10, 1198-1207.	1.1	8
63	Algorithm for in vivo detection of tissue type from multiple scattering light phase images. <i>Biomedical Optics Express</i> , 2019, 10, 2909.	1.5	8
64	Fluorescence polarization: a novel indicator of cardiomyocyte contraction. <i>Biochemical and Biophysical Research Communications</i> , 2003, 300, 23-28.	1.0	7
65	Tissue-Like Phantoms as a Platform for Inserted Fluorescence Nano-Probes. <i>Materials</i> , 2016, 9, 926.	1.3	7
66	Gold Nanorod-Based Bio-Barcode Sensor Array for Enzymatic Detection in Biomedical Applications. <i>ACS Applied Nano Materials</i> , 2020, 3, 8414-8423.	2.4	7
67	Single wavelength measurements of absorption coefficients based on iso-pathlength point. <i>Biomedical Optics Express</i> , 2020, 11, 5760.	1.5	7
68	Self calibration iso-pathlength point in cylindrical tissue geometry: solution of steady-state photon diffusion based on the extrapolated zero-boundary. <i>OSA Continuum</i> , 2019, 2, 92.	1.8	7
69	Monitoring of effector and target cell stimulation during conjugation by fluorescence polarization. <i>Biology of the Cell</i> , 1997, 89, 443-452.	0.7	6
70	Short time behavior of fluorescence intensity fluctuations in single molecule polarization sensitive experiments. <i>Optics Express</i> , 2012, 20, 9276.	1.7	6
71	The influence of dead time related distortions on live cell fluorescence lifetime imaging (FLIM) experiments. <i>Journal of Biophotonics</i> , 2014, 7, 442-452.	1.1	6
72	Weak electromagnetic fields alter Ca ²⁺ handling and protect against hypoxia-mediated damage in primary newborn rat myotube cultures. <i>Pflugers Archiv European Journal of Physiology</i> , 2016, 468, 1459-1465.	1.3	6

#	ARTICLE	IF	CITATIONS
73	Three-Dimensional Highly Sensitive Diffusion Reflection-Based Imaging Method for the in Vivo Localization of Atherosclerosis Plaques Following Gold Nanorods Accumulation. ACS Omega, 2018, 3, 6134-6142.	1.6	6
74	Depth Scattering Characterization of Multi-Layer Turbid Media Based on Iterative Multi-Plane Reflectance Measurements. IEEE Photonics Journal, 2020, 12, 1-13.	1.0	6
75	Extraction of optical properties from a turbid medium using fiber probe for spectral and spatial diffuse reflectance measurement. OSA Continuum, 2021, 4, 762.	1.8	6
76	Iterative optical technique for detecting anti-leishmania nanoparticles in mouse lesions. Biomedical Optics Express, 2021, 12, 4496.	1.5	6
77	Development of a molecular bioswitch using fluorescence lifetime imaging: Incremental activation of fluorescein diacetate. Journal of Biophotonics, 2018, 11, e201700084.	1.1	5
78	Design and Use of a Gold Nanoparticleâ€“Carbon Dot Hybrid for a FLIM-Based IMPLICATION Nano Logic Gate. ACS Omega, 2022, 7, 22818-22824.	1.6	5
79	Nanoscale imaging and sensing for biomedical applications. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2017, 91, 758-759.	1.1	4
80	Hyperlipidemic mice as a model for a real-time in vivo detection of atherosclerosis by gold nanorodsâ€“based diffusion reflection technique. Journal of Biophotonics, 2019, 12, e201800218.	1.1	4
81	Estimation of the rate of entangled-photon-pair interaction with metallic nanoparticles based on classical-light second-harmonic generation measurements. Journal of Physics B: Atomic, Molecular and Optical Physics, 2019, 52, 145401.	0.6	4
82	The squared distance approach to frequency domain timeâ€“resolved fluorescence analysis. Journal of Biophotonics, 2019, 12, e201800485.	1.1	4
83	Diffusion Reflection Measurements of Antibodies Conjugated to Gold Nanoparticles as a Method to Identify Cutaneous Squamous Cell Carcinoma Borders. Materials, 2020, 13, 447.	1.3	4
84	The effect of optical magnification on the detection of the reduced scattering coefficient in the blue regime: theory and experiments. Optics Express, 2021, 29, 22228-22239.	1.7	4
85	Effect of Spatial Modulated Light on Position of Self-Calibration Point. IEEE Photonics Journal, 2021, 13, 1-5.	1.0	3
86	Simultaneous Noninvasive Detection and Therapy of Atherosclerosis Using HDL Coated Gold Nanorods. Diagnostics, 2022, 12, 577.	1.3	3
87	The use of fluorescence lifetime technology in benign and malignant thyroid tissues. Journal of Laryngology and Otology, 2019, 133, 696-699.	0.4	2
88	Diffused reflectance measurements to detect tattoo ink location in skin using the crossover point. Journal of Biophotonics, 2022, 15, e202200003.	1.1	2
89	Whole-Object Fluorescence Lifetime Setup for Efficient Non-Imaging Quantitative Intracellular Fluorophore Measurements. Journal of Fluorescence, 2012, 22, 875-882.	1.3	1
90	Estimation of flow rate and direction of medium with low scattering coefficient via linear polarization measurement. Optics and Lasers in Engineering, 2013, 51, 91-95.	2.0	1

#	ARTICLE	IF	CITATIONS
91	Genetic Algorithm-Based Design for Metal-Enhanced Fluorescent Nanostructures. <i>Materials</i> , 2019, 12, 1766.	1.3	1
92	Fluorophore spectroscopy in aqueous glycerol solution: the interactions of glycerol with the fluorophore. <i>Photochemical and Photobiological Sciences</i> , 2021, 20, 1397-1418.	1.6	1
93	Optimization of Gold Nanorod Features for the Enhanced Performance of Plasmonic Nanocavity Arrays. <i>ACS Omega</i> , 2021, 6, 29071-29077.	1.6	1
94	Classification of fluorescent anisotropy decay based on the distance approach in the frequency domain. <i>Optics Express</i> , 2022, 30, 6176.	1.7	1
95	Dynamic Ratiometric Imaging of Cytosolic Free Ca ²⁺ in Skeletal Muscle Cells Using 340/385-nm Light-Emitting Diode Illuminators. <i>IEEE Photonics Journal</i> , 2018, 10, 1-10.	1.0	0
96	Comment on "Rapid Image Reconstruction of Structured Illumination Microscopy Directly in the Spatial Domain" and More About Point Spread Function Shaping for Enhanced Imaging Resolution. <i>IEEE Photonics Journal</i> , 2021, 13, 1-4.	1.0	0