

AndrÃ© A De Thomaz

List of Publications by Year in descending order

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74
papers

700
citations

567281

15
h-index

580821

25
g-index

75
all docs

75
docs citations

75
times ranked

1024
citing authors

#	ARTICLE	IF	CITATIONS
1	Electromagnetic forces for an arbitrary optical trapping of a spherical dielectric. <i>Optics Express</i> , 2006, 14, 13101.	3.4	74
2	Second harmonic generation microscopy as a powerful diagnostic imaging modality for human ovarian cancer. <i>Journal of Biophotonics</i> , 2014, 7, 37-48.	2.3	62
3	Super-resolution imaging of synaptic and Extra-synaptic AMPA receptors with different-sized fluorescent probes. <i>ELife</i> , 2017, 6, .	6.0	53
4	Optical Biomarkers of Serous and Mucinous Human Ovarian Tumor Assessed with Nonlinear Optics Microscopies. <i>PLoS ONE</i> , 2012, 7, e47007.	2.5	48
5	Measuring electrical and mechanical properties of red blood cells with double optical tweezers. <i>Journal of Biomedical Optics</i> , 2008, 13, 014001.	2.6	47
6	Recognition of serous ovarian tumors in human samples by multimodal nonlinear optical microscopy. <i>Journal of Biomedical Optics</i> , 2011, 16, 096017.	2.6	37
7	β -crystallin interacts with and prevents stress-activated proteolysis of focal adhesion kinase by calpain in cardiomyocytes. <i>Nature Communications</i> , 2014, 5, 5159.	12.8	34
8	Quantitative changes in human epithelial cancers and osteogenesis imperfecta disease detected using nonlinear multicontrast microscopy. <i>Journal of Biomedical Optics</i> , 2012, 17, 081407.	2.6	28
9	Study of Quantum Dots Labeled <i>Trypanosoma cruzi</i> - <i>Rhodnius prolixus</i> Interaction by Real Time Confocal Images. <i>Microscopy and Microanalysis</i> , 2009, 15, 20-21.	0.4	25
10	Studying nanotoxic effects of CdTe quantum dots in <i>Trypanosoma cruzi</i> . <i>Memorias Do Instituto Oswaldo Cruz</i> , 2011, 106, 158-165.	1.6	25
11	Studying taxis in real time using optical tweezers: Applications for <i>Leishmania amazonensis</i> parasites. <i>Micron</i> , 2009, 40, 617-620.	2.2	23
12	Double optical tweezers for ultrasensitive force spectroscopy in microsphere Mie scattering. <i>Applied Physics Letters</i> , 2005, 87, 221109.	3.3	22
13	Mechanical and electrical properties of red blood cells using optical tweezers. <i>Journal of Optics (United Kingdom)</i> , 2011, 13, 044012.	2.2	18
14	Raman, hyper-Raman, hyper-Rayleigh, two-photon luminescence and morphology-dependent resonance modes in a single optical tweezers system. <i>Physical Review E</i> , 2005, 72, 012903.	2.1	17
15	Harmonic optical microscopy and fluorescence lifetime imaging platform for multimodal imaging. <i>Microscopy Research and Technique</i> , 2012, 75, 1383-1394.	2.2	17
16	The Severity of Osteogenesis Imperfecta and Type I Collagen Pattern in Human Skin as Determined by Nonlinear Microscopy: Proof of Principle of a Diagnostic Method. <i>PLoS ONE</i> , 2013, 8, e69186.	2.5	17
17	MMP-2 regulates rat ventral prostate development in vitro. <i>Developmental Dynamics</i> , 2010, 239, 737-746.	1.8	16
18	Blood group antigen studies using CdTe quantum dots and flow cytometry. <i>International Journal of Nanomedicine</i> , 2015, 10, 4393.	6.7	14

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19	Measurement of the Hydrodynamic Radius of Quantum Dots by Fluorescence Correlation Spectroscopy Excluding Blinking. <i>Journal of Physical Chemistry B</i> , 2015, 119, 4294-4299.	2.6	13
20	Hydrophilic Quantum Dots Functionalized with Gd(III)-DO3A Monoamide Chelates as Bright and Effective T1-weighted Bimodal Nanoprobes. <i>Scientific Reports</i> , 2019, 9, 2341.	3.3	13
21	Fluorescent II ^{VI} Semiconductor Quantum Dots in Living Cells: Nonlinear Microspectroscopy in an Optical Tweezers System. <i>Journal of Physical Chemistry B</i> , 2008, 112, 2734-2737.	2.6	12
22	Studying Red Blood Cell Agglutination by Measuring Electrical and Mechanical Properties with a Double Optical Tweezers. <i>Microscopy and Microanalysis</i> , 2006, 12, 1758-1759.	0.4	11
23	Measuring red blood cell aggregation forces using double optical tweezers. <i>Scandinavian Journal of Clinical and Laboratory Investigation</i> , 2013, 73, 262-264.	1.2	11
24	Raman spectroscopy of dorsal root ganglia from streptozotocin-induced diabetic neuropathic rats submitted to photobiomodulation therapy. <i>Journal of Biophotonics</i> , 2019, 12, e201900135.	2.3	11
25	In vitro and in vivo documentation of quantum dots labeled <i>Trypanosoma cruzi</i> – <i>Rhodnius prolixus</i> interaction using confocal microscopy. <i>Parasitology Research</i> , 2009, 106, 85-93.	1.6	10
26	Optical tweezers for studying taxis in parasites. <i>Journal of Optics (United Kingdom)</i> , 2011, 13, 044015.	2.2	8
27	Measuring the Hydrodynamic Radius of Quantum Dots by Fluorescence Correlation Spectroscopy. <i>Methods in Molecular Biology</i> , 2014, 1199, 85-91.	0.9	6
28	Multimodal nonlinear optical microscopy used to discriminate human colon cancer. , 2013, , .		5
29	The role of stress in CdTe quantum dot doped glasses. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 475302.	2.8	3
30	Red blood cell membrane viscoelasticity, agglutination and zeta potential measurements with double optical tweezers. , 2006, 6088, 296.		2
31	Studying red blood cell agglutination by measuring electrical and mechanical properties with a double optical tweezers. <i>Proceedings of SPIE</i> , 2007, , .	0.8	2
32	Multimodal optical setup for nonlinear and fluorescence lifetime imaging microscopies: improvement on a commercial confocal inverted microscope. , 2012, , .		2
33	Use of the second harmonic generation microscopy to evaluate chondrogenic differentiation of mesenchymal stem cells for cartilage repair. , 2012, , .		2
34	One- and two-photon photoluminescence excitation spectra of CdTe quantum dots in a cryogenic confocal microscopy platform. <i>Optics Express</i> , 2015, 23, 19715.	3.4	2
35	Studying red blood cell agglutination by measuring membrane viscosity with optical tweezers. <i>Proceedings of SPIE</i> , 2007, , .	0.8	1
36	Optical tweezers and multiphoton microscopies integrated photonic tool for mechanical and biochemical cell processes studies. , 2007, , .		1

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37	Optical tweezers force measurements to study parasites chemotaxis. , 2009, , .		1
38	Multimodal nonlinear optical microscopy used to discriminate epithelial ovarian cancer. Proceedings of SPIE, 2011, , .	0.8	1
39	Elastic fibers and collagen distribution in human aorta. , 2011, , .		1
40	Combined nonlinear laser imaging (two-photon excitation fluorescence, second and third-harmonic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5		1
41	Nonlinear microspectroscopy in an optical tweezers system: application to cells marked with quantum dots. , 2005, , .		1
42	Determination of fluid viscosity and femto Newton forces of Leishmania amazonensis using optical tweezers. , 2005, , .		0
43	Ultrasensitive force spectroscopy measurement of single particle light scattering by the use of optical tweezers. , 2005, 5699, 288.		0
44	Linear and non-linear microspectroscopy in an optical tweezers system. , 2005, 5700, 28.		0
45	Mechanical properties of stored red blood cells using optical tweezers. , 2005, , .		0
46	Microspectroscopy and scanning microscopy in an optical tweezers system. , 2005, , .		0
47	Force spectroscopy and two photon excited luminescence in an optical tweezers system. , 2005, , .		0
48	Observation of mie resonances for a single microsphere using force spectroscopy and two photon excited luminescence in an optical tweezers system. , 0, , .		0
49	Synthesis and characterization of CdTe nanocrystals for applications as biolabels. , 2005, 5704, 193.		0
50	Chemotaxis study using optical tweezers to observe the strength and directionality of forces of Leishmania amazonensis. , 2006, , .		0
51	Exact Partial Wave Expansion for an Arbitrary Optical Beams. Microscopy and Microanalysis, 2006, 12, 1762-1763.	0.4	0
52	Exact partial wave expansion of optical beams with respect to arbitrary origin. , 2006, , .		0
53	Measuring electrical and mechanical properties of red blood cells with a double optical tweezers. , 2006, , .		0
54	Double Optical Tweezers for 3D Photonic Force Measurements. Microscopy and Microanalysis, 2006, 12, 1760-1761.	0.4	0

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55	Double optical tweezers for 3D photonic force measurements of Mie scatterers. , 2006, , .		0
56	Optical tweezers 3D photonic force spectroscopy. , 2006, 6131, 94.		0
57	Exact theory of optical forces of Mie scatterers exposed to high numerical aperture beams examined with 3D photonic force measurements. , 2007, , .		0
58	Leishmania amazonensis chemotaxis under glucose gradient studied by the strength and directionality of forces measured with optical tweezers. , 2007, , .		0
59	Study of optically trapped living Trypanosoma cruzi / Trypanosoma rangeli - Rhodnius prolixus interactions by real time confocal images using CdSe quantum dots. , 2008, , .		0
60	Simple silanization routes of CdSe and CdTe nanocrystals for biological applications. , 2008, , .		0
61	Evidence of chemotaxis by quantitative measurement of the force vectors of Trypanosoma cruzi in the vicinity of the Rhodnius prolixus midgut wall cell. Proceedings of SPIE, 2009, , .	0.8	0
62	Confocal microscopy for automatic texture analysis of elastic fibers in histologic preparations. Proceedings of SPIE, 2009, , .	0.8	0
63	Trypanosoma cruzi Quantitative Chemotaxis Characterization by Optical Tweezers. Microscopy and Microanalysis, 2009, 15, 868-869.	0.4	0
64	Automatic Analysis of the Elastic Fiber Texture of the Aorta. Microscopy and Microanalysis, 2009, 15, 962-963.	0.4	0
65	Studying nanotoxic effects of CdTe quantum dots in Trypanosoma cruzi. Proceedings of SPIE, 2010, , .	0.8	0
66	Second harmonic generation in human ovarian neoplasias. Proceedings of SPIE, 2010, , .	0.8	0
67	Confocal microscopy for automatic measurement of the density and distance between elastin fibers of histologic preparations of normotensive and hypertensive patients. , 2010, , .		0
68	Analysis of human aorta using fluorescence lifetime imaging microscopy (FLIM). Proceedings of SPIE, 2012, , .	0.8	0
69	Quantitative second-harmonic generation imaging to detect osteogenesis imperfecta in human skin samples. Proceedings of SPIE, 2012, , .	0.8	0
70	Second-harmonic generation microscopy used to evaluate the effect of the dimethyl sulfoxide in the cryopreservation process in collagen fibers of differentiated chondrocytes. Proceedings of SPIE, 2012, , .	0.8	0
71	Multiphoton intravital microscopy setup to visualize the mouse mammary gland. Proceedings of SPIE, 2013, , .	0.8	0
72	Small Fluorescent Probes Show iGluRs are in the Synapses of Transfected Neurons under Basal Conditions. Biophysical Journal, 2017, 112, 445a.	0.5	0

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73	Sensitive and Simple Methodologies for Measuring of Red Blood Cell (RBC) Electrical Properties and Cell Aggregation.. Blood, 2008, 112, 998-998.	1.4	0
74	Measuring the Hydrodynamic Radius of Colloidal Quantum Dots by Fluorescence Correlation Spectroscopy. Methods in Molecular Biology, 2020, 2135, 85-93.	0.9	0