Constantinos Pitris

List of Publications by Year
in descending order

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124	4,406	304743	182427
papers	citations	22	51
		h-index	g-index

124	124	124	3414
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	In Vivo Endoscopic Optical Biopsy with Optical Coherence Tomography. Science, 1997, 276, 2037-2039.	12.6	1,365
2	Optical Coherence Tomography: An Emerging Technology for Biomedical Imaging and Optical Biopsy. Neoplasia, 2000, 2, 9-25.	5.3	817
3	In vivo cellular optical coherence tomography imaging. Nature Medicine, 1998, 4, 861-865.	30.7	285
4	Optical Coherence Tomography: Advanced Technology for the Endoscopic Imaging of Barrett's Esophagus. Endoscopy, 2000, 32, 921-930.	1.8	253
5	Imaging needle for optical coherence tomography. Optics Letters, 2000, 25, 1520.	3.3	215
6	Feasibility of optical coherence tomography for high-resolution imaging of human gastrointestinal tract malignancies. Journal of Gastroenterology, 2000, 35, 87-92.	5.1	154
7	High-Resolution Optical Coherence Tomography-Guided Laser Ablation of Surgical Tissue. Journal of Surgical Research, 1999, 82, 275-284.	1.6	136
8	Optical Coherence Tomography for Neurosurgical Imaging of Human Intracortical Melanoma. Neurosurgery, 1998, 43, 834-841.	1.1	126
9	HIGH-RESOLUTION IMAGING OF GYNECOLOGIC NEOPLASMS USING OPTICAL COHERENCE TOMOGRAPHY. Obstetrics and Gynecology, 1999, 93, 135-139.	2.4	105
10	High Resolution Imaging of the Upper Respiratory Tract with Optical Coherence Tomography. American Journal of Respiratory and Critical Care Medicine, 1998, 157, 1640-1644.	5.6	104
11	New Technology for High-Speed and High-Resolution Optical Coherence Tomographya. Annals of the New York Academy of Sciences, 1998, 838, 95-107.	3.8	79
12	High-Resolution Imaging of the Middle Ear With Optical Coherence Tomography. JAMA Otolaryngology, 2001, 127, 637.	1.2	71
13	Two- and three-dimensional high-resolution imaging of the human oviduct with optical coherence tomography. Fertility and Sterility, 1998, 70, 155-158.	1.0	46
14	A Novel Method for Bacterial UTI Diagnosis Using Raman Spectroscopy. International Journal of Spectroscopy, 2012, 2012, 1-13.	1.6	46
15	Risk factors for breast cancer brain metastases: a systematic review. Oncotarget, 2020, 11, 650-669.	1.8	46
16	Optical Biopsy with Optical Coherence Tomographya. Annals of the New York Academy of Sciences, 1998, 838, 68-74.	3.8	43
17	Real-Time Optical Coherence Tomography for Minimally Invasive Imaging of Prostate Ablation. Computer Aided Surgery, 2001, 6, 94-103.	1.8	43
18	Infrared Fluorescence-Based Cancer Screening Capsule for the Small Intestine. IEEE Transactions on Biomedical Circuits and Systems, 2016, 10, 467-476.	4.0	36

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19	Fluorescence spectroscopy of the cervix: Influence of acetic acid, cervical mucus, and vaginal medications. , 1999, 25, 237-249.		34
20	Radiogenomics for Precision Medicine With a Big Data Analytics Perspective. IEEE Journal of Biomedical and Health Informatics, 2019, 23, 2063-2079.	6.3	34
21	A novel method for urinary tract infection diagnosis and antibiogram using Raman spectroscopy. Journal of Raman Spectroscopy, 2010, 41, 958-963.	2.5	32
22	An Automated Breast Micro-Calcification Detection and Classification Technique Using Temporal Subtraction of Mammograms. IEEE Access, 2020, 8, 52785-52795.	4.2	29
23	Using speckle to measure tissue dispersion in optical coherence tomography. Biomedical Optics Express, 2017, 8, 2528.	2.9	24
24	Scatterer size-based analysis of optical coherence tomography images using spectral estimation techniques. Optics Express, 2010, 18, 9181.	3.4	22
25	Correlation of the derivative as a robust estimator of scatterer size in optical coherence tomography (OCT) [Invited]. Biomedical Optics Express, 2017, 8, 1598.	2.9	20
26	Optical coherence tomography axial resolution improvement by step-frequency encoding. Optics Express, 2010, 18, 11877.	3.4	17
27	A Novel Conjugate of Bis[((4-bromophenyl)amino)quinazoline], a EGFR-TK Ligand, with a Fluorescent Ru(II)-Bipyridine Complex Exhibits Specific Subcellular Localization in Mitochondria. Molecular Pharmaceutics, 2019, 16, 4260-4273.	4.6	16
28	Classification of Raman spectra using the correlation kernel. Journal of Raman Spectroscopy, 2011, 42, 904-909.	2.5	15
29	Digital subtraction of temporally sequential mammograms for improved detection and classification of microcalcifications. European Radiology Experimental, 2021, 5, 40.	3.4	14
30	Real-time optical coherence tomography for minimally invasive imaging of prostate ablation. Computer Aided Surgery, 2001, 6, 94-103.	1.8	14
31	Axial resolution improvement by modulated deconvolution in Fourier domain optical coherence tomography. Journal of Biomedical Optics, 2012, 17, 071307.	2.6	13
32	Comparison of tissue dispersion measurement techniques based on optical coherence tomography. Journal of Biomedical Optics, 2019, 24, 1.	2.6	10
33	An Approach for Preoperative Planning and Performance of MR-guided Interventions Demonstrated With a Manual Manipulator in a 1.5T MRI Scanner. CardioVascular and Interventional Radiology, 2012, 35, 359-367.	2.0	9
34	Dual-angle optical coherence tomography for index of refraction estimation using rigid registration and cross-correlation. Journal of Biomedical Optics, 2019, 24, 1.	2.6	7
35	<title>OCT imaging of osteoarthritic cartilage: structure, polarization sensitivity, and clinical feasibility</title>. , 1999, , .		6
36	Scatterer size-based analysis of optical coherence tomography signals. , 2007, , .		6

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37	Multi-bacteria multi-antibiotic testing using surface enhanced Raman spectroscopy (SERS) for urinary tract infection (UTI) diagnosis. Proceedings of SPIE, 2013, , .	0.8	6
38	Guest Editorial on the Special Issue on Integrating Informatics and Technology for Precision Medicine. IEEE Journal of Biomedical and Health Informatics, 2019, 23, 12-13.	6.3	6
39	AMâ€“FM techniques in the analysis of optical coherence tomography signals. Journal of Biophotonics, 2009, 2, 364-369.	2.3	5
40	Consideration of geometric constraints regarding MR-compatible interventional robotic devices. , 2010, , .		5
41	Lateral resolution improvement of oversampled OCT images using Capon estimation of weighted subvolume contribution. Biomedical Optics Express, 2017, 8, 1319.	2.9	5
42	Classification of bacterial samples as negative or positive for a UTI and antibiogram using surface enhanced Raman spectroscopy. Proceedings of SPIE, 2011, , .	0.8	4
43	Complete urinary tract infection (UTI) diagnosis and antibiogram using surface enhanced Raman spectroscopy (SERS). Proceedings of SPIE, 2012, , .	0.8	4
44	Urinary tract infection (UTI) multi-bacteria multi-antibiotic testing using surface enhanced Raman spectroscopy (SERS). , 2013, , .		4
45	Identification of AF and Other Cardiac Arrhythmias from a Single-lead ECG Using Dynamic Time Warping. , 0, , .		4
46	Fluorescence spectroscopy of the cervix: Influence of acetic acid, cervical mucus, and vaginal medications. Lasers in Surgery and Medicine, 1999, 25, 237-249.	2.1	4
47	Surface Enhanced Raman Spectroscopy as a Sensitive Method for UTI Diagnosis. IEEE Sensors Journal, 2022, 22, 10063-10074.	4.7	4
48	Transillumination spatially modulated illumination microscopy. Optics Letters, 2005, 30, 2590.	3.3	3
49	AM-FM analysis of optical coherence tomography signals. Proceedings of SPIE, 2009, , .	0.8	3
50	Classification of Raman Spectra using Support Vector Machines. , 2009, , .		3
51	Design of MR-compatible robotic devices: magnetic and geometric compatibility aspects. , 2009, , .		3
52	Point-of-care diagnosis of Urinary Tract Infection (UTI) using Surface enhanced Raman Spectroscopy (SERS). , 2012, , .		3
53	Ultrahigh-resolution in-vivo versus ex-vivo OCT imaging and tissue preservation. , 2001, 4251, 170.		2
54	AM-FM techniques in optical coherence tomography. Proceedings of SPIE, 2009, , .	0.8	2

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55	Urinary tract infection diagnosis and response to antibiotics using Raman spectroscopy. , 2009, , .		2
56	UTI diagnosis and antibiogram using Raman spectroscopy. Proceedings of SPIE, 2009, , .	0.8	2
57	Spectral analysis for scatterer estimation in optical coherence tomography images. , 2009, , .		2
58	Raman spectroscopy for for determining nutritional facts. , 2009, , .		2
59	Identification and Antibiotic Sensitivity of UTI Pathogens Using Raman Spectroscopy. , 0, , .		2
60	Raman spectra classification with support vector machines and a correlation kernel. Proceedings of SPIE, 2011, , .	0.8	2
61	Lateral resolution improvement in oversampled optical coherence tomography images assuming weighted oversampled multi-scatterer contributions. Proceedings of SPIE, 2012, , .	0.8	2
62	Rapid identification of bacterial resistance to Ciprofloxacin using surface-enhanced Raman spectroscopy. Proceedings of SPIE, 2014, , .	0.8	2
63	Surface enhanced Raman spectroscopy as a tool for rapid and inexpensive diagnosis and antibiotic susceptibility testing for urinary tract infections. , 2016, , .		2
64	A new method for breast micro-calcification detection and characterization using digital temporal subtraction of mammogram pairs. , 2019, , .		2
65	Measuring tissue dispersion using the cross-correlation of half-spectrum optical coherence tomography images. , 2019, , .		2
66	<title>Endoscopic optical coherence tomography</title>. , 1997, , .		1
67	<title>In-vivo colposcopic imaging of neoplastic tissues using optical coherence tomography</title>. , 2001, , .		1
68	Spectral analysis of Optical Coherence Tomography images. , 2008, , .		1
69	Raman spectroscopy for UTI diagnosis and antibiogram. , 2009, , .		1
70	Isolated word endpoint detection using time-frequency variance kernels. , 2011, , .		1
71	Investigation of shell aggregate gold nanostructures. International Journal of Nanotechnology, 2011, 8, 507.	0.2	1
72	Support vector machines with the correlation kernel for the classification of Raman spectra. , 2011, , .		1

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73	Plasmon resonances of novel monolayer and bilayer shell aggregate gold nanostructures. Proceedings of SPIE, 2011, , .	0.8	1
74	Lateral resolution improvement in Optical Coherence Tomography (OCT) images. , 2012, , .		1
75	Investigation of nanostructure scattering and absorption for combined optical diagnostic and therapeutic applications. Proceedings of SPIE, 2012, , .	0.8	1
76	Classification of Raman spectra of bacteria using rank order kernels. , 2013, , .		1
77	Design of pupil filter for extended depth of focus and lateral superresolution in optical coherence tomography. , 2014, , .		1
78	Wavelet decomposition for speckle reduction with feature preservation in optical coherence tomography. , 2014, , .		1
79	Development of a new, robust and accurate, spectroscopic metric for scatterer size estimation in optical coherence tomography (OCT) images. , 2016, , .		1
80	Tissue dispersion measurement techniques using optical coherence tomography. , 2017, , .		1
81	Breast Mass Detection And Classification Algorithm Based On Temporal Subtraction Of Sequential Mammograms. , 2021, , .		1
82	Plasmon resonances of novel monolayer and bilayer shell aggregate gold nanostructures. , 2011, , .		1
83	Optical Coherence Tomographic Imaging of In Vivo Cellular Dynamics. , 1998, , .		1
84	In-Vivo Catheter-Based Imaging with Optical Coherence Tomography. , 1998, , .		1
85	Measuring tissue dispersion using optical coherence tomography speckle. , 2017, , .		1
86	Machine Learning Methods for Barretâ€™s and Dysplasia classification from In Vivo Optical Coherence Tomography Images of Human Esophagus. , 2020, , .		1
87	Comparison of classification methods of Barretâ€™s and dysplasia in the esophagus from in vivo optical coherence tomography images. , 2020, , .		1
88	<title>Subcellular optical coherence tomography with a Kerr lens mode-locked Ti:Al<formula><inf><roman>2</roman></inf></formula>O<formula><inf><roman>3</roman></inf></formula> laser</title>. , 1999, , .		0
89	High-resolution in-vivo intra-arterial imaging with optical coherence tomography. , 1999, 3590, 324.		0
90	<title>Endoscopic optical coherence tomography imaging for surgical diagnostics and guidance in the gastrointestinal tract</title>. , 1999, 3595, 158.		0

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91	<title>High-resolution imaging of neoplastic lesions using optical coherence tomography</title>. , 1999, , .		0
92	Imaging solid tissues with an OCT imaging needle. , 2001, , .		0
93	Transillumination spatially modulated illumination microscopy for human chromosome imaging. , 2005, , .		0
94	Decomposition and unresolvable component analysis of optical coherence tomography signals. , 2006, 6079, 321.		0
95	Scatterer-size-based analysis of optical coherence tomography images. , 2007, , .		0
96	A method for determining nutritional facts with Raman spectroscopy. Proceedings of SPIE, 2009, , .	0.8	0
97	Surface enhanced Raman spectroscopy for urinary tract infection diagnosis and antibiogram. , 2010, , .		0
98	An approach to MR-guided interventions with a manually-operated manipulator. , 2010, , .		0
99	Optical coherence tomography resolution improvement by step-frequency encoding. , 2010, , .		0
100	Isolated word endpoint detection using time-frequency variance kernels. , 2011, , .		0
101	Novel monolayer and bilayer shell aggregate gold nanostructures. , 2011, , .		0
102	Modulated deconvolution for resolution improvement in Fourier domain optical coherence tomography. Proceedings of SPIE, 2011, , .	0.8	0
103	Fourier domain optical coherence tomography axial resolution improvement with modulated deconvolution. Proceedings of SPIE, 2011, , .	0.8	0
104	Guest Editorial introduction to the special issue on Biomedical Signal Processing and Analysis selected papers from ITAB 2009. Biomedical Signal Processing and Control, 2011, 6, 217-218.	5.7	0
105	Design of a new nanostructure for theranostic applications. , 2012, , .		0
106	Improvement of lateral resolution of optical coherence tomography images based on capon estimation of weighted multi-scatterer contributions. Proceedings of SPIE, 2013, , .	0.8	0
107	Estimation of weighted multi-scatterer contributions for improvement of lateral resolution of optical coherence tomography images. Proceedings of SPIE, 2013, , .	0.8	0
108	Rank order ,ernels for the classification of Raman spectra of bacteria. Proceedings of SPIE, 2013, , .	0.8	0

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109	Fourier domain optical coherence tomography artifact and speckle reduction by autoregressive spectral estimation without a loss of resolution. Proceedings of SPIE, 2015, , .	0.8	0
110	Extracting dispersion information from Optical Coherence Tomography images. , 2016, , .		0
111	Novel Spectroscopic Metric for Robust and Accurate Scatterer Size Estimation in Optical Coherence Tomography (OCT). IFMBE Proceedings, 2016, , 254-257.	0.3	0
112	Nanotheranostics: realizing the great promise?. European Journal of Nanomedicine, 2016, 8, .	0.6	0
113	Raman spectroscopy for highly accurate estimation of the age of refrigerated porcine muscle. Proceedings of SPIE, 2016, , .	0.8	0
114	Using speckle to measure tissue dispersion in optical coherence tomography. , 2017, , .		0
115	Ultrahigh resolution and spectroscopic optical coherence tomography. , 2000, , .		0
116	Optical Coherence Tomography for Biomedical Imaging. Springer Series in Chemical Physics, 2001, , 243-247.	0.2	0
117	Imaging Neoplasia. , 2001, , 563-589.		0
118	Two and Three Dimensional Imaging of Normal and Osteoarthritic Cartilage Microstructure with Optical Coherence Tomography. , 1998, , .		0
119	Optical Coherence Tomography using Femtosecond Lasers. Springer Series in Chemical Physics, 1998, , 150-152.	0.2	0
120	In vivo imaging of osteoarthritic changes with optical coherence tomography. , 1999, , .		0
121	Automated detection of esophageal dysplasia in in vivo optical coherence tomography images of the human esophagus. , 2018, , .		0
122	Index of refraction estimation using dual-angle optical coherence tomography. , 2019, , .		0
123	Breast Mass Detection and Classification based on Digital Temporal Subtraction of Mammogram Pairs. , 2020, , .		0
124	Scatterer size estimation with fractal analysis of optical coherence tomography (OCT) images. , 2022, , .		0