Constantinos Pitris

List of Publications by Year
in descending order

124 papers	4,406 citations	304743 22 h-index	182427 51 g-index
124 all docs	124 docs citations	124 times ranked	3414 citing authors

#	Article	IF	Citations
1	Surface Enhanced Raman Spectroscopy as a Sensitive Method for UTI Diagnosis. IEEE Sensors Journal, 2022, 22, 10063-10074.	4.7	4
2	Scatterer size estimation with fractal analysis of optical coherence tomography (OCT) images. , 2022, , .		0
3	Breast Mass Detection And Classification Algorithm Based On Temporal Subtraction Of Sequential Mammograms. , 2021, , .		1
4	Digital subtraction of temporally sequential mammograms for improved detection and classification of microcalcifications. European Radiology Experimental, 2021, 5, 40.	3.4	14
5	An Automated Breast Micro-Calcification Detection and Classification Technique Using Temporal Subtraction of Mammograms. IEEE Access, 2020, 8, 52785-52795.	4.2	29
6	Risk factors for breast cancer brain metastases: a systematic review. Oncotarget, 2020, 11, 650-669.	1.8	46
7	Machine Learning Methods for Barret's and Dysplasia classification from In Vivo Optical Coherence Tomography Images of Human Esophagus. , 2020, , .		1
8	Comparison of classification methods of Barret's and dysplasia in the esophagus from in vivo optical coherence tomography images. , 2020, , .		1
9	Breast Mass Detection and Classification based on Digital Temporal Subtraction of Mammogram Pairs. , 2020, , .		0
10	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
11	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
12	A new method for breast micro-calcification detection and characterization using digital temporal subtraction of mammogram pairs. , 2019, , .		2
13	Radiogenomics for Precision Medicine With a Big Data Analytics Perspective. IEEE Journal of Biomedical and Health Informatics, 2019, 23, 2063-2079.	6.3	34
14	Index of refraction estimation using dual-angle optical coherence tomography. , 2019, , .		0
15	Measuring tissue dispersion using the cross-correlation of half-spectrum optical coherence tomography images. , 2019, , .		2
16	Comparison of tissue dispersion measurement techniques based on optical coherence tomography. Journal of Biomedical Optics, 2019, 24, 1.	2.6	10
17	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
18	Automated detection of esophageal dysplasia in in vivo optical coherence tomography images of the human esophagus. , 2018, , .		0

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19	Using speckle to measure tissue dispersion in optical coherence tomography. , 2017, , .		0
20	Tissue dispersion measurement techniques using optical coherence tomography. , 2017, , .		1
21	Lateral resolution improvement of oversampled OCT images using Capon estimation of weighted subvolume contribution. Biomedical Optics Express, 2017, 8, 1319.	2.9	5
22	Using speckle to measure tissue dispersion in optical coherence tomography. Biomedical Optics Express, 2017, 8, 2528.	2.9	24
23	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
24	Measuring tissue dispersion using optical coherence tomography speckle. , 2017, , .		1
25	Extracting dispersion information from Optical Coherence Tomography images. , 2016, , .		0
26	Surface enhanced Raman spectroscopy as a tool for rapid and inexpensive diagnosis and antibiotic susceptibility testing for urinary tract infections. , 2016, , .		2
27	Novel Spectroscopic Metric for Robust and Accurate Scatterer Size Estimation in Optical Coherence Tomography (OCT). IFMBE Proceedings, 2016, , 254-257.	0.3	0
28	Infrared Fluorescence-Based Cancer Screening Capsule for the Small Intestine. IEEE Transactions on Biomedical Circuits and Systems, 2016, 10, 467-476.	4.0	36
29	Nanotheranostics: realizing the great promise?. European Journal of Nanomedicine, 2016, 8, .	0.6	0
30	Raman spectroscopy for highly accurate estimation of the age of refrigerated porcine muscle. Proceedings of SPIE, 2016, , .	0.8	0
31	Development of a new, robust and accurate, spectroscopic metric for scatterer size estimation in optical coherence tomography (OCT) images. , 2016, , .		1
32	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
33	Design of pupil filter for extended depth of focus and lateral superresolution in optical coherence tomography. , 2014, , .		1
34	Wavelet decomposition for speckle reduction with feature preservation in optical coherence tomography. , 2014, , .		1
35	Rapid identification of bacterial resistance to Ciprofloxacin using surface-enhanced Raman spectroscopy. Proceedings of SPIE, 2014, , .	0.8	2
36	Multi-bacteria multi-antibiotic testing using surface enhanced Raman spectroscopy (SERS) for urinary tract infection (UTI) diagnosis. Proceedings of SPIE, 2013, , .	0.8	6

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37	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
38	Estimation of weighted multi-scatterer contributions for improvement of lateral resolution of optical coherence tomography images. Proceedings of SPIE, 2013, , .	0.8	0
39	Urinary tract infection (UTI) multi-bacteria multi-antibiotic testing using surface enhanced Raman spectroscopy (SERS). , 2013, , .		4
40	Rank order ,ernels for the classification of Raman spectra of bacteria. Proceedings of SPIE, 2013, , .	0.8	0
41	Classification of Raman spectra of bacteria using rank order kernels. , 2013, , .		1
42	Complete urinary tract infection (UTI) diagnosis and antibiogram using surface enhanced Raman spectroscopy (SERS). Proceedings of SPIE, 2012, , .	0.8	4
43	Axial resolution improvement by modulated deconvolution in Fourier domain optical coherence tomography. Journal of Biomedical Optics, 2012, 17, 071307.	2.6	13
44	Lateral resolution improvement in Optical Coherence Tomography (OCT) images. , 2012, , .		1
45	A Novel Method for Bacterial UTI Diagnosis Using Raman Spectroscopy. International Journal of Spectroscopy, 2012, 2012, 1-13.	1.6	46
46	Lateral resolution improvement in oversampled optical coherence tomography images assuming weighted oversampled multi-scatterer contributions. Proceedings of SPIE, 2012, , .	0.8	2
47	Point-of-care diagnosis of Urinary Tract Infection (UTI) using Surface enhanced Raman Spectroscopy (SERS). , 2012, , .		3
48	Design of a new nanostructure for theranostic applications. , 2012, , .		0
49	Investigation of nanostructure scattering and absorption for combined optical diagnostic and therapeutic applications. Proceedings of SPIE, 2012, , .	0.8	1
50	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
51	Isolated word endpoint detection using time-frequency variance kernels. , 2011, , .		1
52	Isolated word endpoint detection using time-frequency variance kernels. , 2011, , .		0
53	Investigation of shell aggregate gold nanostructures. International Journal of Nanotechnology, 2011, 8, 507.	0.2	1
54	Novel monolayer and bilayer shell aggregate gold nanostructures. , 2011, , .		0

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55	Support vector machines with the correlation kernel for the classification of Raman spectra. , 2011, , .		1
56	Modulated deconvolution for resolution improvement in Fourier domain optical coherence tomography. Proceedings of SPIE, 2011, , .	0.8	0
57	Raman spectra classification with support vector machines and a correlation kernel. Proceedings of SPIE, 2011, , .	0.8	2
58	Fourier domain optical coherence tomography axial resolution improvement with modulated deconvolution. Proceedings of SPIE, 2011, , .	0.8	0
59	Classification of Raman spectra using the correlation kernel. Journal of Raman Spectroscopy, 2011, 42, 904-909.	2.5	15
60	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
61	Plasmon resonances of novel monolayer and bilayer shell aggregate gold nanostructures. Proceedings of SPIE, 2011, , .	0.8	1
62	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
63	Plasmon resonances of novel monolayer and bilayer shell aggregate gold nanostructures. , 2011, , .		1
64	A novel method for urinary tract infection diagnosis and antibiogram using Raman spectroscopy. Journal of Raman Spectroscopy, 2010, 41, 958-963.	2.5	32
65	Surface enhanced Raman spectroscopy for urinary tract infection diagnosis and antibiogram. , 2010, , .		0
66	An approach to MR-guided interventions with a manually-operated manipulator. , 2010, , .		0
67	Optical coherence tomography resolution improvement by step-frequency encoding. , 2010, , .		0
68	Scatterer size-based analysis of optical coherence tomography images using spectral estimation techniques. Optics Express, 2010, 18, 9181.	3.4	22
69	Optical coherence tomography axial resolution improvement by step-frequency encoding. Optics Express, 2010, 18, 11877.	3.4	17
70	Consideration of geometric constraints regarding MR-compatible interventional robotic devices. , 2010, , .		5
71	AM-FM techniques in optical coherence tomography. Proceedings of SPIE, 2009, , .	0.8	2
72	AM-FM analysis of optical coherence tomography signals. Proceedings of SPIE, 2009, , .	0.8	3

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73	Urinary tract infection diagnosis and response to antibiotics using Raman spectroscopy. , 2009, , .		2
74	UTI diagnosis and antibiogram using Raman spectroscopy. Proceedings of SPIE, 2009, , .	0.8	2
75	AMâ€"FM techniques in the analysis of optical coherence tomography signals. Journal of Biophotonics, 2009, 2, 364-369.	2.3	5
76	Spectral analysis for scatterer estimation in optical coherence tomography images. , 2009, , .		2
77	Raman spectroscopy for UTI diagnosis and antibiogram. , 2009, , .		1
78	Raman spectroscopy for for determining nutritional facts. , 2009, , .		2
79	Classification of Raman Spectra using Support Vector Machines. , 2009, , .		3
80	Design of MR-compatible robotic devices: magnetic and geometric compatibility aspects. , 2009, , .		3
81	A method for determining nutritional facts with Raman spectroscopy. Proceedings of SPIE, 2009, , .	0.8	0
82	Spectral analysis of Optical Coherence Tomography images. , 2008, , .		1
83	Scatterer-size-based analysis of optical coherence tomography images. , 2007, , .		0
84	Scatterer size-based analysis of optical coherence tomography signals. , 2007, , .		6
85	Decomposition and unresolvable component analysis of optical coherence tomography signals. , 2006, 6079, 321.		0
86	Transillumination spatially modulated illumination microscopy for human chromosome imaging. , 2005, , .		0
87	Transillumination spatially modulated illumination microscopy. Optics Letters, 2005, 30, 2590.	3.3	3
88	High-Resolution Imaging of the Middle Ear With Optical Coherence Tomography. JAMA Otolaryngology, 2001, 127, 637.	1.2	71
89	Ultrahigh-resolution in-vivo versus ex-vivo OCT imaging and tissue preservation. , 2001, 4251, 170.		2
90	Imaging solid tissues with an OCT imaging needle. , 2001, , .		0

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91	\<title\>In-vivo colposcopic imaging of neoplastic tissues using optical coherence tomography\</title\>. , 2001, , .		1
92	Real-Time Optical Coherence Tomography for Minimally Invasive Imaging of Prostate Ablation. Computer Aided Surgery, 2001, 6, 94-103.	1.8	43
93	Optical Coherence Tomography for Biomedical Imaging. Springer Series in Chemical Physics, 2001, , 243-247.	0.2	0
94	Imaging Neoplasia. , 2001, , 563-589.		0
95	Real-time optical coherence tomography for minimally invasive imaging of prostate ablation. Computer Aided Surgery, 2001, 6, 94-103.	1.8	14
96	Feasibility of optical coherence tomography for high-resolution imaging of human gastrointestinal tract malignancies. Journal of Gastroenterology, 2000, 35, 87-92.	5.1	154
97	Optical Coherence Tomography: Advanced Technology for the Endoscopic Imaging of Barrett's Esophagus. Endoscopy, 2000, 32, 921-930.	1.8	253
98	Imaging needle for optical coherence tomography. Optics Letters, 2000, 25, 1520.	3.3	215
99	Optical Coherence Tomography: An Emerging Technology for Biomedical Imaging and Optical Biopsy. Neoplasia, 2000, 2, 9-25.	5.3	817
100	Ultrahigh resolution and spectroscopic optical coherence tomography. , 2000, , .		0
101	Fluorescence spectroscopy of the cervix: Influence of acetic acid, cervical mucus, and vaginal medications. , 1999, 25, 237-249.		34
102	High-Resolution Optical Coherence Tomography-Guided Laser Ablation of Surgical Tissue. Journal of Surgical Research, 1999, 82, 275-284.	1.6	136
103	HIGH-RESOLUTION IMAGING OF GYNECOLOGIC NEOPLASMS USING OPTICAL COHERENCE TOMOGRAPHY. Obstetrics and Gynecology, 1999, 93, 135-139.	2.4	105
104	\<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
105	High-resolution in-vivo intra-arterial imaging with optical coherence tomography. , 1999, 3590, 324.		0
106	\<title\>Endoscopic optical coherence tomography imaging for surgical diagnostics and guidance in the gastrointestinal tract\</title\>. , 1999, 3595, 158.		0
107	\<title\>OCT imaging of osteoarthritic cartilage: structure, polarization sensitivity, and clinical feasibility\</title\>. , 1999, , .		6
108	\<title\>High-resolution imaging of neoplastic lesions using optical coherence tomography\</title\>. , 1999, , .		0

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109	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
110	In vivo imaging of osteoarthritic changes with optical coherence tomography. , 1999, , .		0
111	In vivo cellular optical coherence tomography imaging. Nature Medicine, 1998, 4, 861-865.	30.7	285
112	Optical Biopsy with Optical Coherence Tomographya. Annals of the New York Academy of Sciences, 1998, 838, 68-74.	3.8	43
113	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
114	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
115	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
116	Optical Coherence Tomography for Neurosurgical Imaging of Human Intracortical Melanoma. Neurosurgery, 1998, 43, 834-841.	1.1	126
117	Optical Coherence Tomographic Imaging of In Vivo Cellular Dynamics. , 1998, , .		1
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 Catheter-Based Imaging with Optical Coherence Tomography. , 1998, , .		1
121	<title>Endoscopic optical coherence tomography</title>. , 1997, , .		1
122	In Vivo Endoscopic Optical Biopsy with Optical Coherence Tomography. Science, 1997, 276, 2037-2039.	12.6	1,365
123	Identification and Antibiotic Sensitivity of UTI Pathogens Using Raman Spectroscopy. , 0, , .		2
124	Identification of AF and Other Cardiac Arrhythmias from a Single-lead ECG Using Dynamic Time Warping. , 0, , .		4