

Srirang Manohar

List of Publications by Year in descending order

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87
papers

3,490
citations

147566

31
h-index

138251

58
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89
all docs

89
docs citations

89
times ranked

3793
citing authors

#	ARTICLE	IF	CITATIONS
1	New directions for optical breast imaging and sensing: multimodal cancer imaging and lactation research. <i>Current Opinion in Biomedical Engineering</i> , 2022, , 100380.	1.8	0
2	OUP accepted manuscript. <i>BJS Open</i> , 2022, 6, .	0.7	0
3	Optical signatures of radiofrequency ablation in biological tissues. <i>Scientific Reports</i> , 2021, 11, 6579.	1.6	15
4	Tunable blood oxygenation in the vascular anatomy of a semi-anthropomorphic photoacoustic breast phantom. <i>Journal of Biomedical Optics</i> , 2021, 26, .	1.4	8
5	Pendant breast immobilization and positioning in photoacoustic tomographic imaging. <i>Photoacoustics</i> , 2021, 21, 100238.	4.4	8
6	Novel imaging techniques for intraoperative margin assessment in surgical oncology: A systematic review. <i>International Journal of Cancer</i> , 2021, 149, 635-645.	2.3	27
7	Annular Fiber Probe for Interstitial Illumination in Photoacoustic Guidance of Radiofrequency Ablation. <i>Sensors</i> , 2021, 21, 4458.	2.1	5
8	Diagnostics in Patients Suspect for Breast Cancer in The Netherlands. <i>Current Oncology</i> , 2021, 28, 4998-5008.	0.9	0
9	Suite of 3D test objects for performance assessment of hybrid photoacoustic-ultrasound breast imaging systems. <i>Journal of Biomedical Optics</i> , 2021, 27, .	1.4	2
10	Imaging results from a semi-anthropomorphic photoacoustic-ultrasound breast phantom carrying blood vessels. , 2021, , .		0
11	Laser-induced synthetic aperture ultrasound imaging. <i>Journal of Applied Physics</i> , 2020, 128, .	1.1	5
12	Spatially compounded plane wave imaging using a laser-induced ultrasound source. <i>Photoacoustics</i> , 2020, 18, 100154.	4.4	10
13	Light Emitting Diodes Based Photoacoustic and Ultrasound Tomography: Imaging Aspects and Applications. <i>Progress in Optical Science and Photonics</i> , 2020, , 245-266.	0.3	1
14	Tomographic imaging with an ultrasound and LED-based photoacoustic system. <i>Biomedical Optics Express</i> , 2020, 11, 2152.	1.5	29
15	Photoacoustic imaging in percutaneous radiofrequency ablation: device guidance and ablation visualization. <i>Physics in Medicine and Biology</i> , 2019, 64, 184001.	1.6	17
16	Current and future trends in photoacoustic breast imaging. <i>Photoacoustics</i> , 2019, 16, 100134.	4.4	118
17	A semi-anthropomorphic breast phantom with tunable blood oxygenation levels for use in quantitative photoacoustics. , 2019, , .		1
18	Semi-anthropomorphic photoacoustic breast phantom. <i>Biomedical Optics Express</i> , 2019, 10, 5921.	1.5	25

#	ARTICLE	IF	CITATIONS
19	Photoacoustic Imaging Assisted Radiofrequency Ablation: Illumination Strategies and Prospects. , 2019, , .		2
20	Twente Photoacoustic Mammoscope 2: system overview and three-dimensional vascular network images in healthy breasts. Journal of Biomedical Optics, 2019, 24, 1.	1.4	38
21	The Twente Photoacoustic Mammoscope 2: 3D vascular network visualization. , 2019, , .		3
22	A 3D semi-anthropomorphic photoacoustic breast phantom. , 2019, , .		1
23	Laser-induced ultrasound transmitters for 3D photoacoustic and ultrasound tomography. , 2019, , .		0
24	A framework for directional and higher-order reconstruction in photoacoustic tomography. Physics in Medicine and Biology, 2018, 63, 045018.	1.6	19
25	Sensitivity of a partially learned model-based reconstruction algorithm. Proceedings in Applied Mathematics and Mechanics, 2018, 18, e201800222.	0.2	3
26	Photoacoustic staging of nodal metastases using SPIOs: Comparison between in vivo, inÂtoto and ex vivo imaging in a rat model. Biomedical Spectroscopy and Imaging, 2017, 5, 71-87.	1.2	1
27	Identification and removal of reflection artifacts in minimally invasive photoacoustic imaging for accurate visualization of brachytherapy seeds. Proceedings of SPIE, 2017, , .	0.8	2
28	Photoacoustics: a historical review. Advances in Optics and Photonics, 2016, 8, 586.	12.1	189
29	Photoacoustic-guided focused ultrasound for accurate visualization of brachytherapy seeds with the photoacoustic needle. Journal of Biomedical Optics, 2016, 21, 120501.	1.4	25
30	Opening the â€œWhite Boxâ€•in Tissue Engineering: Visualization of Cell Aggregates in Optically Scattering Scaffolds. Tissue Engineering - Part C: Methods, 2016, 22, 534-542.	1.1	1
31	Quantitative photoacoustic tomography by stochastic search: direct recovery of the optical absorption field. Optics Letters, 2016, 41, 4202.	1.7	16
32	The state of the art in breast imaging using the Twente Photoacoustic Mammoscope: results from 31 measurements on malignancies. European Radiology, 2016, 26, 3874-3887.	2.3	94
33	Handheld Probe-Based Dual Mode Ultrasound/Photoacoustics for Biomedical Imaging. Progress in Optical Science and Photonics, 2016, , 209-247.	0.3	17
34	Clinical Photoacoustic Breast Imaging: The Twente experience. IEEE Pulse, 2015, 6, 42-46.	0.1	64
35	Cells make themselves heard. Nature Photonics, 2015, 9, 216-218.	15.6	11
36	Detection of Melanoma Metastases in Resected Human Lymph Nodes by Noninvasive Multispectral Photoacoustic Imaging. International Journal of Biomedical Imaging, 2014, 2014, 1-7.	3.0	32

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37	Initial results of finger imaging using photoacoustic computed tomography. Journal of Biomedical Optics, 2014, 19, 060501.	1.4	65
38	Ultrafast vapourization dynamics of laser-activated polymeric microcapsules. Nature Communications, 2014, 5, 3671.	5.8	31
39	Photoacoustic mammography: prospects and promises. Breast Cancer Management, 2014, 3, 387-390.	0.2	12
40	An optimized ultrasound detector for photoacoustic breast tomography. Medical Physics, 2013, 40, 032901.	1.6	41
41	Evaluation of superparamagnetic iron oxide nanoparticles (Endorem [®]) as a photoacoustic contrast agent for intraoperative nodal staging. Contrast Media and Molecular Imaging, 2013, 8, 83-91.	0.4	63
42	A new acoustic lens material for large area detectors in photoacoustic breast tomography. Photoacoustics, 2013, 1, 9-18.	4.4	34
43	Optical techniques for the intraoperative assessment of nodal status. Future Oncology, 2013, 9, 1741-1755.	1.1	3
44	Design considerations for ultrasound detectors in photoacoustic breast imaging. , 2013, , .		1
45	Design and evaluation of a laboratory prototype system for 3D photoacoustic full breast tomography. Biomedical Optics Express, 2013, 4, 2555.	1.5	36
46	Appearance of breast cysts in planar geometry photoacoustic mammography using 1064-nm excitation. Journal of Biomedical Optics, 2013, 18, 126009.	1.4	22
47	Photoacoustic needle: minimally invasive guidance to biopsy. Journal of Biomedical Optics, 2013, 18, 070502.	1.4	82
48	Two-dimensional spatiotemporal monitoring of temperature in photothermal therapy using hybrid photoacoustic-ultrasound transmission tomography. Journal of Biomedical Optics, 2013, 18, 116009.	1.4	8
49	Intraoperative <i>ex vivo</i> photoacoustic nodal staging in a rat model using a clinical superparamagnetic iron oxide nanoparticle dispersion. Journal of Biophotonics, 2013, 6, 493-504.	1.1	22
50	The "nanobig rod" class of gold nanorods: optimized dimensions for improved <i>in vivo</i> therapeutic and imaging efficacy. Nanotechnology, 2013, 24, 215102.	1.3	10
51	Photoacoustic imaging of breast tumor vascularization: a comparison with MRI and histopathology. , 2013, , .		2
52	A custom-made linear array transducer for photoacoustic breast imaging. , 2012, , .		1
53	Photoacoustic detection of iron oxide nanoparticles in resected rat lymph nodes. , 2012, , .		0
54	Speed-of-sound compensated photoacoustic tomography for accurate imaging. Medical Physics, 2012, 39, 7262-7271.	1.6	108

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55	Raman and Fluorescence Spectral Imaging of Live Breast Cancer Cells Incubated with PEGylated Gold Nanorods. <i>Applied Spectroscopy</i> , 2012, 66, 66-74.	1.2	11
56	FEM model based optimization of transducer geometry for photoacoustic imaging. , 2012, , .		0
57	Light Interactions with Gold Nanorods and Cells: Implications for Photothermal Nanotherapeutics. <i>Nano Letters</i> , 2011, 11, 1887-1894.	4.5	130
58	Monomer adsorption of indocyanine green to gold nanoparticles. <i>Nanoscale</i> , 2011, 3, 4247.	2.8	11
59	Initial results of imaging melanoma metastasis in resected human lymph nodes using photoacoustic computed tomography. <i>Journal of Biomedical Optics</i> , 2011, 16, 096021.	1.4	44
60	Passive element enriched photoacoustic computed tomography (PER PACT) for simultaneous imaging of acoustic propagation properties and light absorption. <i>Optics Express</i> , 2011, 19, 2093.	1.7	84
61	Multiple passive element enriched photoacoustic computed tomography. <i>Optics Letters</i> , 2011, 36, 2809.	1.7	16
62	Breast imaging using the Twente photoacoustic mammoscope (PAM): new clinical measurements. , 2011, , .		3
63	Spatial distributions of optical and acoustic properties and correlations with temperature in cyclically frozen-thawed poly(vinyl alcohol) gel breast phantoms. , 2011, , .		1
64	Application of plasma spectrometry for the analysis of engineered nanoparticles in suspensions and products. <i>Journal of Analytical Atomic Spectrometry</i> , 2011, 26, 1701.	1.6	96
65	Blood clearance and tissue distribution of PEGylated and non-PEGylated gold nanorods after intravenous administration in rats. <i>Nanomedicine</i> , 2011, 6, 339-349.	1.7	136
66	Gold nanorods as molecular contrast agents in photoacoustic imaging: the promises and the caveats. <i>Contrast Media and Molecular Imaging</i> , 2011, 6, 389-400.	0.4	104
67	Assessment of the added value of the Twente Photoacoustic Mammoscope in breast cancer diagnosis. <i>Medical Devices: Evidence and Research</i> , 2011, 4, 107.	0.4	24
68	Poly(vinyl alcohol) gels as photoacoustic breast phantoms revisited. <i>Journal of Biomedical Optics</i> , 2011, 16, 075002.	1.4	49
69	Differential Pathlength Spectroscopy for the Quantitation of Optical Properties of Gold Nanoparticles. <i>ACS Nano</i> , 2010, 4, 4081-4089.	7.3	26
70	Photoacoustic Imaging of the Breast Using the Twente Photoacoustic Mammoscope: Present Status and Future Perspectives. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2010, 16, 730-739.	1.9	94
71	Iodide Impurities in Hexadecyltrimethylammonium Bromide (CTAB) Products: Lot [®] Lot Variations and Influence on Gold Nanorod Synthesis. <i>Langmuir</i> , 2010, 26, 5050-5055.	1.6	73
72	<i>in vitro</i> toxicity studies of polymer-coated gold nanorods. <i>Nanotechnology</i> , 2010, 21, 145101.	1.3	134

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73	Simultaneous imaging of ultrasound attenuation, speed of sound, and optical absorption in a photoacoustic setup. Proceedings of SPIE, 2009, , .	0.8	4
74	Imaging of tumor vasculature using Twente photoacoustic systems. Journal of Biophotonics, 2009, 2, 701-717.	1.1	73
75	Discrete dipole approximation simulations of gold nanorod optical properties: Choice of input parameters and comparison with experiment. Journal of Applied Physics, 2009, 105, .	1.1	84
76	Imaging of acoustic attenuation and speed of sound maps using photoacoustic measurements. Proceedings of SPIE, 2008, , .	0.8	12
77	Imaging the Beta-Cell Mass: Why and How. Review of Diabetic Studies, 2008, 5, 6-12.	0.5	46
78	Region-of-interest breast images with the Twente Photoacoustic Mammoscope (PAM). , 2007, , .		9
79	Initial results of in vivo non-invasive cancer imaging in the human breast using near-infrared photoacoustics. Optics Express, 2007, 15, 12277.	1.7	260
80	Concomitant speed-of-sound tomography in photoacoustic imaging. Applied Physics Letters, 2007, 91, .	1.5	64
81	Synthesis and Bioconjugation of Gold Nanoparticles as Potential Molecular Probes for Light-Based Imaging Techniques. International Journal of Biomedical Imaging, 2007, 2007, 1-10.	3.0	105
82	Characterization of a clinical prototype for photoacoustic mammography and some phantom studies. , 2005, , .		3
83	The Twente Photoacoustic Mammoscope: system overview and performance. Physics in Medicine and Biology, 2005, 50, 2543-2557.	1.6	201
84	Photoacoustic mammography laboratory prototype: imaging of breast tissue phantoms. Journal of Biomedical Optics, 2004, 9, 1172.	1.4	99
85	<title>Three-dimensional photoacoustic imaging of breast tissue phantoms</title>. , 2004, , .		2
86	Poly(vinyl alcohol) gels for use as tissue phantoms in photoacoustic mammography. Physics in Medicine and Biology, 2003, 48, 357-370.	1.6	151
87	Photoacoustic imaging of inhomogeneities embedded in breast tissue phantoms. , 2003, , .		8