

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
g-index

89
all docs

89
docs citations

89
times ranked

3793
citing authors

#	ARTICLE	IF	CITATIONS
1	Initial results of in vivo non-invasive cancer imaging in the human breast using near-infrared photoacoustics. <i>Optics Express</i> , 2007, 15, 12277.	1.7	260
2	The Twente Photoacoustic Mammoscope: system overview and performance. <i>Physics in Medicine and Biology</i> , 2005, 50, 2543-2557.	1.6	201
3	Photoacoustics: a historical review. <i>Advances in Optics and Photonics</i> , 2016, 8, 586.	12.1	189
4	Poly(vinyl alcohol) gels for use as tissue phantoms in photoacoustic mammography. <i>Physics in Medicine and Biology</i> , 2003, 48, 357-370.	1.6	151
5	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
6	<i>in vitro</i> toxicity studies of polymer-coated gold nanorods. <i>Nanotechnology</i> , 2010, 21, 145101.	1.3	134
7	Light Interactions with Gold Nanorods and Cells: Implications for Photothermal Nanotherapeutics. <i>Nano Letters</i> , 2011, 11, 1887-1894.	4.5	130
8	Current and future trends in photoacoustic breast imaging. <i>Photoacoustics</i> , 2019, 16, 100134.	4.4	118
9	Speed-of-sound compensated photoacoustic tomography for accurate imaging. <i>Medical Physics</i> , 2012, 39, 7262-7271.	1.6	108
10	Synthesis and Bioconjugation of Gold Nanoparticles as Potential Molecular Probes for Light-Based Imaging Techniques. <i>International Journal of Biomedical Imaging</i> , 2007, 2007, 1-10.	3.0	105
11	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
12	Photoacoustic mammography laboratory prototype: imaging of breast tissue phantoms. <i>Journal of Biomedical Optics</i> , 2004, 9, 1172.	1.4	99
13	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
14	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
15	The state of the art in breast imaging using the Twente Photoacoustic Mammoscope: results from 31 measurements on malignancies. <i>European Radiology</i> , 2016, 26, 3874-3887.	2.3	94
16	Discrete dipole approximation simulations of gold nanorod optical properties: Choice of input parameters and comparison with experiment. <i>Journal of Applied Physics</i> , 2009, 105, .	1.1	84
17	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
18	Photoacoustic needle: minimally invasive guidance to biopsy. <i>Journal of Biomedical Optics</i> , 2013, 18, 070502.	1.4	82

#	ARTICLE	IF	CITATIONS
19	Imaging of tumor vasculature using Twente photoacoustic systems. <i>Journal of Biophotonics</i> , 2009, 2, 701-717.	1.1	73
20	Iodide Impurities in Hexadecyltrimethylammonium Bromide (CTAB) Products: Lot-to-Lot Variations and Influence on Gold Nanorod Synthesis. <i>Langmuir</i> , 2010, 26, 5050-5055.	1.6	73
21	Initial results of finger imaging using photoacoustic computed tomography. <i>Journal of Biomedical Optics</i> , 2014, 19, 060501.	1.4	65
22	Concomitant speed-of-sound tomography in photoacoustic imaging. <i>Applied Physics Letters</i> , 2007, 91, .	1.5	64
23	Clinical Photoacoustic Breast Imaging: The Twente experience. <i>IEEE Pulse</i> , 2015, 6, 42-46.	0.1	64
24	Evaluation of superparamagnetic iron oxide nanoparticles (Endorem®) as a photoacoustic contrast agent for intraoperative nodal staging. <i>Contrast Media and Molecular Imaging</i> , 2013, 8, 83-91.	0.4	63
25	Poly(vinyl alcohol) gels as photoacoustic breast phantoms revisited. <i>Journal of Biomedical Optics</i> , 2011, 16, 075002.	1.4	49
26	Imaging the Beta-Cell Mass: Why and How. <i>Review of Diabetic Studies</i> , 2008, 5, 6-12.	0.5	46
27	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
28	An optimized ultrasound detector for photoacoustic breast tomography. <i>Medical Physics</i> , 2013, 40, 032901.	1.6	41
29	Twente Photoacoustic Mammoscope 2: system overview and three-dimensional vascular network images in healthy breasts. <i>Journal of Biomedical Optics</i> , 2019, 24, 1.	1.4	38
30	Design and evaluation of a laboratory prototype system for 3D photoacoustic full breast tomography. <i>Biomedical Optics Express</i> , 2013, 4, 2555.	1.5	36
31	A new acoustic lens material for large area detectors in photoacoustic breast tomography. <i>Photoacoustics</i> , 2013, 1, 9-18.	4.4	34
32	Detection of Melanoma Metastases in Resected Human Lymph Nodes by Noninvasive Multispectral Photoacoustic Imaging. <i>International Journal of Biomedical Imaging</i> , 2014, 2014, 1-7.	3.0	32
33	Ultrafast vapourization dynamics of laser-activated polymeric microcapsules. <i>Nature Communications</i> , 2014, 5, 3671.	5.8	31
34	Tomographic imaging with an ultrasound and LED-based photoacoustic system. <i>Biomedical Optics Express</i> , 2020, 11, 2152.	1.5	29
35	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
36	Differential Pathlength Spectroscopy for the Quantitation of Optical Properties of Gold Nanoparticles. <i>ACS Nano</i> , 2010, 4, 4081-4089.	7.3	26

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37	Photoacoustic-guided focused ultrasound for accurate visualization of brachytherapy seeds with the photoacoustic needle. <i>Journal of Biomedical Optics</i> , 2016, 21, 120501.	1.4	25
38	Semi-anthropomorphic photoacoustic breast phantom. <i>Biomedical Optics Express</i> , 2019, 10, 5921.	1.5	25
39	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
40	Appearance of breast cysts in planar geometry photoacoustic mammography using 1064-nm excitation. <i>Journal of Biomedical Optics</i> , 2013, 18, 126009.	1.4	22
41	Intraoperative <i>in vivo</i> photoacoustic nodal staging in a rat model using a clinical superparamagnetic iron oxide nanoparticle dispersion. <i>Journal of Biophotonics</i> , 2013, 6, 493-504.	1.1	22
42	A framework for directional and higher-order reconstruction in photoacoustic tomography. <i>Physics in Medicine and Biology</i> , 2018, 63, 045018.	1.6	19
43	Handheld Probe-Based Dual Mode Ultrasound/Photoacoustics for Biomedical Imaging. <i>Progress in Optical Science and Photonics</i> , 2016, , 209-247.	0.3	17
44	Photoacoustic imaging in percutaneous radiofrequency ablation: device guidance and ablation visualization. <i>Physics in Medicine and Biology</i> , 2019, 64, 184001.	1.6	17
45	Multiple passive element enriched photoacoustic computed tomography. <i>Optics Letters</i> , 2011, 36, 2809.	1.7	16
46	Quantitative photoacoustic tomography by stochastic search: direct recovery of the optical absorption field. <i>Optics Letters</i> , 2016, 41, 4202.	1.7	16
47	Optical signatures of radiofrequency ablation in biological tissues. <i>Scientific Reports</i> , 2021, 11, 6579.	1.6	15
48	Imaging of acoustic attenuation and speed of sound maps using photoacoustic measurements. <i>Proceedings of SPIE</i> , 2008, , .	0.8	12
49	Photoacoustic mammography: prospects and promises. <i>Breast Cancer Management</i> , 2014, 3, 387-390.	0.2	12
50	Monomer adsorption of indocyanine green to gold nanoparticles. <i>Nanoscale</i> , 2011, 3, 4247.	2.8	11
51	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
52	Cells make themselves heard. <i>Nature Photonics</i> , 2015, 9, 216-218.	15.6	11
53	The "nanobig rod" class of gold nanorods: optimized dimensions for improved <i>in vivo</i> therapeutic and imaging efficacy. <i>Nanotechnology</i> , 2013, 24, 215102.	1.3	10
54	Spatially compounded plane wave imaging using a laser-induced ultrasound source. <i>Photoacoustics</i> , 2020, 18, 100154.	4.4	10

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55	Region-of-interest breast images with the Twente Photoacoustic Mammoscope (PAM). , 2007, , .		9
56	Photoacoustic imaging of inhomogeneities embedded in breast tissue phantoms. , 2003, , .		8
57	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
58	Tunable blood oxygenation in the vascular anatomy of a semi-anthropomorphic photoacoustic breast phantom. Journal of Biomedical Optics, 2021, 26, .	1.4	8
59	Pendant breast immobilization and positioning in photoacoustic tomographic imaging. Photoacoustics, 2021, 21, 100238.	4.4	8
60	Laser-induced synthetic aperture ultrasound imaging. Journal of Applied Physics, 2020, 128, .	1.1	5
61	Annular Fiber Probe for Interstitial Illumination in Photoacoustic Guidance of Radiofrequency Ablation. Sensors, 2021, 21, 4458.	2.1	5
62	Simultaneous imaging of ultrasound attenuation, speed of sound, and optical absorption in a photoacoustic setup. Proceedings of SPIE, 2009, , .	0.8	4
63	Characterization of a clinical prototype for photoacoustic mammography and some phantom studies. , 2005, , .		3
64	Breast imaging using the Twente photoacoustic mammoscope (PAM): new clinical measurements. , 2011, , .		3
65	Optical techniques for the intraoperative assessment of nodal status. Future Oncology, 2013, 9, 1741-1755.	1.1	3
66	Sensitivity of a partially learned model-based reconstruction algorithm. Proceedings in Applied Mathematics and Mechanics, 2018, 18, e201800222.	0.2	3
67	The Twente Photoacoustic Mammoscope 2: 3D vascular network visualization. , 2019, , .		3
68	<title>Three-dimensional photoacoustic imaging of breast tissue phantoms</title>. , 2004, , .		2
69	Photoacoustic imaging of breast tumor vascularization: a comparison with MRI and histopathology. , 2013, , .		2
70	Photoacoustic Imaging Assisted Radiofrequency Ablation: Illumination Strategies and Prospects. , 2019, , .		2
71	Identification and removal of reflection artifacts in minimally invasive photoacoustic imaging for accurate visualization of brachytherapy seeds. Proceedings of SPIE, 2017, , .	0.8	2
72	Suite of 3D test objects for performance assessment of hybrid photoacoustic-ultrasound breast imaging systems. Journal of Biomedical Optics, 2021, 27, .	1.4	2

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73	Spatial distributions of optical and acoustic properties and correlations with temperature in cyclically frozen-thawed poly(vinyl alcohol) gel breast phantoms. , 2011, , .		1
74	A custom-made linear array transducer for photoacoustic breast imaging. , 2012, , .		1
75	Design considerations for ultrasound detectors in photoacoustic breast imaging. , 2013, , .		1
76	Opening the "White Box" in Tissue Engineering: Visualization of Cell Aggregates in Optically Scattering Scaffolds. Tissue Engineering - Part C: Methods, 2016, 22, 534-542.	1.1	1
77	Photoacoustic staging of nodal metastases using SPIOs: Comparison between in vivo, in toto and ex vivo imaging in a rat model. Biomedical Spectroscopy and Imaging, 2017, 5, 71-87.	1.2	1
78	A semi-anthropomorphic breast phantom with tunable blood oxygenation levels for use in quantitative photoacoustics. , 2019, , .		1
79	Light Emitting Diodes Based Photoacoustic and Ultrasound Tomography: Imaging Aspects and Applications. Progress in Optical Science and Photonics, 2020, , 245-266.	0.3	1
80	A 3D semi-anthropomorphic photoacoustic breast phantom. , 2019, , .		1
81	Photoacoustic detection of iron oxide nanoparticles in resected rat lymph nodes. , 2012, , .		0
82	FEM model based optimization of transducer geometry for photoacoustic imaging. , 2012, , .		0
83	Laser-induced ultrasound transmitters for 3D photoacoustic and ultrasound tomography. , 2019, , .		0
84	Diagnostics in Patients Suspect for Breast Cancer in The Netherlands. Current Oncology, 2021, 28, 4998-5008.	0.9	0
85	New directions for optical breast imaging and sensing: multimodal cancer imaging and lactation research. Current Opinion in Biomedical Engineering, 2022, , 100380.	1.8	0
86	Imaging results from a semi-anthropomorphic photoacoustic-ultrasound breast phantom carrying blood vessels. , 2021, , .		0
87	OUP accepted manuscript. BJS Open, 2022, 6, .	0.7	0