George Stoica

List of Publications by Year
in descending order

90 papers	8,750 citations	87888 38 h-index	110387 64 g-index
90 all docs	90 docs citations	90 times ranked	6934 citing authors

#	Article	IF	Citations
1	Functional photoacoustic microscopy for high-resolution and noninvasive in vivo imaging. Nature Biotechnology, 2006, 24, 848-851.	17.5	1,690
2	Noninvasive laser-induced photoacoustic tomography for structural and functional in vivo imaging of the brain. Nature Biotechnology, 2003, 21, 803-806.	17.5	1,597
3	Photoacoustic Tomography of a Nanoshell Contrast Agent in the in Vivo Rat Brain. Nano Letters, 2004, 4, 1689-1692.	9.1	447
4	Noninvasive imaging of hemoglobin concentration and oxygenation in the rat brain using high-resolution photoacoustic tomography. Journal of Biomedical Optics, 2006, 11, 024015.	2.6	400
5	Simultaneous Molecular and Hypoxia Imaging of Brain Tumors In Vivo Using Spectroscopic Photoacoustic Tomography. Proceedings of the IEEE, 2008, 96, 481-489.	21.3	286
6	Three-dimensional imaging of skin melanoma in vivo by dual-wavelength photoacoustic microscopy. Journal of Biomedical Optics, 2006, 11, 034032.	2.6	242
7	Noninvasive photoacoustic angiography of animal brains in vivo with near-infrared light and an optical contrast agent. Optics Letters, 2004, 29, 730.	3.3	241
8	Three-dimensional laser-induced photoacoustic tomography of mouse brain with the skin and skull intact. Optics Letters, 2003, 28, 1739.	3.3	203
9	Multiple-bandwidth photoacoustic tomography. Physics in Medicine and Biology, 2004, 49, 1329-1338.	3.0	200
10	A mouse model of Down syndrome trisomic for all human chromosome 21 syntenic regions. Human Molecular Genetics, 2010, 19, 2780-2791.	2.9	197
11	Imaging of tumor angiogenesis in rat brains in vivo by photoacoustic tomography. Applied Optics, 2005, 44, 770.	2.1	189
12	Vascular Endothelial Growth Factor Stimulates Rat Cholangiocyte Proliferation Via an Autocrine Mechanism. Gastroenterology, 2006, 130, 1270-1282.	1.3	188
13	Expression of MMP2, MMP9 and MMP3 in Breast Cancer Brain Metastasis in a Rat Model. Clinical and Experimental Metastasis, 2005, 22, 237-246.	3.3	182
14	Clinical and pathologic aspects of spontaneous canine prostate carcinoma: A retrospective analysis of 76 cases. Prostate, 2000, 45, 173-183.	2.3	175
15	Improved in vivo photoacoustic microscopy based on a virtual-detector concept. Optics Letters, 2006, 31, 474.	3.3	167
16	Photoacoustic imaging of lacZ gene expression in vivo. Journal of Biomedical Optics, 2007, 12, 020504.	2.6	161
17	Optical-fiber-based Mueller optical coherence tomography. Optics Letters, 2003, 28, 1206.	3.3	151
18	MMP2 role in breast cancer brain metastasis development and its regulation by TIMP2 and ERK1/2. Clinical and Experimental Metastasis, 2007, 24, 341-351.	3.3	126

#	Article	IF	Citations
19	Determination of local polarization properties of biological samples in the presence of diattenuation by use of Mueller optical coherence tomography. Optics Letters, 2004, 29, 2402.	3.3	121
20	In vivo volumetric imaging of subcutaneous microvasculature by photoacoustic microscopy. Optics Express, 2006, 14, 9317.	3.4	121
21	In-vivo photoacoustic microscopy of nanoshell extravasation from solid tumor vasculature. Journal of Biomedical Optics, 2009, 14, 010507.	2.6	110
22	Morphology, Immunohistochemistry, and Genetic Alterations in Dog Astrocytomas. Veterinary Pathology, 2004, 41, 10-19.	1.7	101
23	Limitations of quantitative photoacoustic measurements of blood oxygenation in small vessels. Physics in Medicine and Biology, 2007, 52, 1349-1361.	3.0	100
24	Photoacoustic imaging of the microvasculature with a high-frequency ultrasound array transducer. Journal of Biomedical Optics, 2007, 12, 010501.	2.6	96
25	Imaging acute thermal burns by photoacoustic microscopy. Journal of Biomedical Optics, 2006, 11, 054033.	2.6	83
26	Identification of Cancer Stem Cells in Dog Glioblastoma. Veterinary Pathology, 2009, 46, 391-406.	1.7	78
27	ATM deficiency induces oxidative stress and endoplasmic reticulum stress in astrocytes. Laboratory Investigation, 2005, 85, 1471-1480.	3.7	77
28	Contrast mechanisms in polarization-sensitive Mueller-matrix optical coherence tomography and application in burn imaging. Applied Optics, 2003, 42, 5191.	2.1	75
29	MicroRNA profiling and the role of microRNA-132 in neurodegeneration using a rat model. Neuroscience Letters, 2013, 553, 153-158.	2.1	56
30	Neurodegeneration induced by MoMuLV-ts1 and increased expression of Fas and TNF-Î± in the central nervous system. Brain Research, 1998, 779, 1-8.	2.2	55
31	Possible involvement of both endoplasmic reticulumâ€“ and mitochondria-dependent pathways in MoMuLV-ts1â€“induced apoptosis in astrocytes. Journal of NeuroVirology, 2004, 10, 189-198.	2.1	48
32	FGFâ€1â€induced matrix metalloproteinaseâ€9 expression in breast cancer cells is mediated by increased activities of NFâ€ºB and activating proteinâ€1. Molecular Carcinogenesis, 2008, 47, 424-435.	2.7	48
33	Canine Astrocytic Tumors. Veterinary Pathology, 2011, 48, 266-275.	1.7	46
34	The pathogenesis of bornaviral diseases in mammals. Animal Health Research Reviews, 2016, 17, 92-109.	3.1	44
35	Fiber-based polarization-sensitive Mueller matrix optical coherence tomography with continuous source polarization modulation. Applied Optics, 2005, 44, 5463.	2.1	43
36	In vivo three-dimensional photoacoustic tomography of a whole mouse head. Optics Letters, 2006, 31, 2453.	3.3	43

#	Article	IF	Citations
37	Activation of endoplasmic reticulum stress signaling pathway is associated with neuronal degeneration in MoMuLV-ts1-induced spongiform encephalomyelopathy. Laboratory Investigation, 2004, 84, 816-827.	3.7	40
38	Attenuation of oxidative stress, inflammation and apoptosis by minocycline prevents retrovirus-induced neurodegeneration in mice. Brain Research, 2009, 1286, 174-184.	2.2	38
39	In vivo imaging and characterization of hypoxia-induced neovascularization and tumor invasion. International Journal of Oncology, 2007, 30, 45.	3.3	29
40	Potential role of Î±â€šynuclein in neurodegeneration: studies in a rat animal model. Journal of Neurochemistry, 2012, 122, 812-822.	3.9	29
41	The role of the thymus in the pathogenesis of hind-limb paralysis induced by ts1, a mutant of moloney murine leukemia virus-TB. Virology, 1989, 169, 332-340.	2.4	27
42	In vivo burn imaging using Mueller optical coherence tomography. Optics Express, 2008, 16, 10279.	3.4	25
43	Induction of p53 Accumulation by Moloney Murine Leukemia Virus-ts1 Infection in Astrocytes Via Activation of Extracellular Signal-Regulated Kinases 1/2. Laboratory Investigation, 2002, 82, 693-702.	3.7	24
44	Curcumin induces apoptosis in a murine mammary gland adenocarcinoma cell line through the mitochondrial pathway. European Journal of Pharmacology, 2011, 668, 127-132.	3.5	24
45	Up-regulation of astrocyte cyclooxygenase-2, CCAAT/enhancer-binding protein, glucose-related protein 78, eukaryotic initiation factor 2Î±, and c-Jun N-terminal kinase by a neurovirulent murine retrovirus. Journal of NeuroVirology, 2005, 11, 166-179.	2.1	20
46	Activation of AMP-activated protein kinase in cerebella of Atmâ¯'/â¯' mice is attributable to accumulation of reactive oxygen species. Biochemical and Biophysical Research Communications, 2012, 418, 267-272.	2.1	20
47	Metabolic Analysis of Striatal Tissues from Parkinsonâ€™s Disease-like Rats by Electrospray Ionization Ion Mobility Mass Spectrometry. Analytical Chemistry, 2014, 86, 3075-3083.	6.5	20
48	Up-regulation of pro-nerve growth factor, neurotrophin receptor p75, and sortilin is associated with retrovirus-induced spongiform encephalomyelopathy. Brain Research, 2008, 1208, 204-216.	2.2	18
49	Neuroprotective effects of the drug GVT (monosodium luminol) are mediated by the stabilization of Nrf2 in astrocytes. Neurochemistry International, 2010, 56, 780-788.	3.8	18
50	Effect of Intragastric Application ofN-Methylnitrosourea inp53 Knockout Mice. Molecular Carcinogenesis, 2000, 28, 97-101.	2.7	17
51	Effect of curcumin and Meriva on the lung metastasis of murine mammary gland adenocarcinoma. In Vivo, 2010, 24, 401-8.	1.3	17
52	Enhanced proteolysis of IÎºBÎ± and IÎºBÎ² proteins in astrocytes by Moloney murine leukemia virus (MoMuLV)-ts 1 infection: A potential mechanism of NF-ÎºB activation. Journal of NeuroVirology, 2001, 7, 466-475.	2.1	16
53	Spontaneous multicentric soft tissue sarcoma in a captive African pygmy hedgehog (<i>Atelerix) Tj ETQq1 1 0.784314 rgBT /Ove 889-895.	0.9	15
54	Technical considerations in quantitative blood oxygenation measurement using photoacoustic microscopy in vivo. , 2006, 6086, 215.		14

#	Article	IF	Citations
55	Pleiotropic neuropathological and biochemical alterations associated with Myo5a mutation in a rat Model. Brain Research, 2018, 1679, 155-170.	2.2	14
56	Mixed effects of 2,6-dithiopurine against cyclophosphamide mediated bladder and lung toxicity in mice. Toxicology, 1998, 125, 1-11.	4.2	13
57	Noninvasive functional photoacoustic tomography of blood-oxygen saturation in the brain. , 2004, 5320, 69.		13
58	Inherited tertiary hypothyroidism in Sprague–Dawley rats. Brain Research, 2007, 1148, 205-216.	2.2	13
59	Down-regulation of Jab1, HIF-1Î±, and VEGF by Moloney murine leukemia virus-ts1infection: A possible cause of neurodegeneration. Journal of NeuroVirology, 2008, 14, 239-251.	2.1	11
60	Combined Photoacoustic and Molecular Fluorescence Imaging In Vivo. , 2005, 2006, 190-2.		10
61	Interferon tau-induced hepatocyte apoptosis in sheep. Hepatology, 2000, 31, 1275-1284.	7.3	8
62	In-vivo imaging of nanoshell extravasation from solid tumor vasculature by photoacoustic microscopy. , 2007, , .		8
63	Imaging of gene expression in vivo with photoacoustic tomography. , 2006, , .		7
64	Photoacoustic molecular imaging of small animals in vivo. , 2006, , .		7
65	Photoacoustic tomography and molecular fluorescence imaging: dual modality imaging of small animal brains in vivo. , 2005, , .		6
66	New Zealand White Rabbits Effectively Clear Borrelia burgdorferi B31 despite the Bacteriumâ€™s FunctionalvlsEAntigenic Variation System. Infection and Immunity, 2019, 87, .	2.2	6
67	Laser-induced photoacoustic tomography enhanced with an optical contrast agent. , 2004, 5320, 77.		5
68	Deep penetrating photoacoustic tomography in biological tissues. , 2005, , .		5
69	In vitro malignant transformation of in vivo ENU-induced rat ovarian Sertoli cell tumor (adenoma). Journal of Cancer Research and Clinical Oncology, 1988, 114, 142-148.	2.5	4
70	Laser-induced photoacoustic tomography for small animals. , 2003, 4960, 40.		4
71	Triplications of human chromosome 21 orthologous regions in mice result in expansion of megakaryocyte-erythroid progenitors and reduction of granulocyte-macrophage progenitors. Oncotarget, 2018, 9, 4773-4786.	1.8	4
72	High-resolution burn imaging in pig skin by photoacoustic microscopy. , 2007, , .		3

#	Article	IF	Citations
73	PRELIMINARY STUDY ON SKIN CANCER DETECTION IN SENCAR MICE USING MUELLER OPTICAL COHERENCE TOMOGRAPHY. Journal of Innovative Optical Health Sciences, 2009, 02, 289-294.	1.0	2
74	High-resolution ultrasound-aided biophotonic imaging. , 2004, 2004, 5307-10.		1
75	Fiber-based polarization-sensitive Mueller-matrix optical coherence tomography with continuous source polarization modulation. , 2004, , .		1
76	Functional photoacoustic tomography for non-invasive imaging of cerebral blood oxygenation and blood volume in rat brain in vivo. , 2005, , .		1
77	Three-dimensional photoacoustic imaging of subcutaneous microvasculature in vivo. , 2006, 6086, 365.		1
78	Functional photoacoustic microscopy in vivo. , 2006, 6086, 377.		1
79	In vivo functional photoacoustic imaging of brain tumor vasculature. , 2006, 6086, 91.		1
80	Virtual-detector synthetic aperture focusing technique with application in in vivo photoacoustic microscopy. , 2006, 6086, 369.		1
81	Role of MMP2 in Brain Metastasis. Tumors of the Central Nervous System, 2014, , 195-205.	0.1	1
82	Cancer stem cells: Current status and future directions. Veterinary Journal, 2015, 205, 124-125.	1.7	1
83	Detection of Moloney murine sarcoma virus in tissues and cultured cells by the polymerase chain reaction. Journal of Virological Methods, 1993, 41, 255-263.	2.1	0
84	Depth-wise differentiation of Jones matrices obtained from Mueller optical coherence tomography. , 2004, , .		0
85	Characterization of the polarization properties of biological tissues with fiber-based Mueller-matrix optical coherence tomography. , 2004, 5319, 130.		0
86	Photoacoustic tomography of rat brain in vivo using multibandwidth ultrasonic detection. , 2004, , .		0
87	Burn depth determination using high-speed polarization-sensitive Mueller optical coherence tomography with continuous polarization modulation. , 2006, 6079, 421.		0
88	Three-dimensional in vivo near-infrared photoacoustic tomography of whole small animal head. , 2006, 6086, 208.		0
89	In vivo functional photoacoustic tomography of traumatic brain injury in rats. , 2006, 6086, 201.		0
90	Cancellation of the polarization distortions in fiber-based polarization-sensitive Mueller-matrix optical coherence tomography. , 2003, , .		0