

Arjun G Yodh

List of Publications by Year in descending order

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Version: 2024-02-01

203
papers

23,240
citations

10373

72
h-index

7944

149
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209
all docs

209
docs citations

209
times ranked

18899
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of circulatory arrest and cardiopulmonary bypass on cerebral autoregulation in neonatal swine. <i>Pediatric Research</i> , 2022, 91, 1374-1382.	1.1	5
2	Association of Ongoing Cerebral Oxygen Extraction During Deep Hypothermic Circulatory Arrest With Postoperative Brain Injury. <i>Seminars in Thoracic and Cardiovascular Surgery</i> , 2022, 34, 1275-1284.	0.4	7
3	Rods in a lyotropic chromonic liquid crystal: emergence of chirality, symmetry-breaking alignment, and caged angular diffusion. <i>Soft Matter</i> , 2022, 18, 487-495.	1.2	2
4	Relationships between structure, memory and flow in sheared disordered materials. <i>Nature Physics</i> , 2022, 18, 565-570.	6.5	8
5	Giant director fluctuations in liquid crystal drops. <i>Physical Review E</i> , 2022, 105, 044702.	0.8	1
6	Theory of director fluctuations about a hedgehog defect in a nematic drop. <i>Physical Review E</i> , 2022, 105, 044703.	0.8	1
7	Focal conic flowers, dislocation rings, and undulation textures in smectic liquid crystal Janus droplets. <i>Soft Matter</i> , 2022, 18, 4360-4371.	1.2	8
8	Non-invasive diffuse optical neuromonitoring during cardiopulmonary resuscitation predicts return of spontaneous circulation. <i>Scientific Reports</i> , 2021, 11, 3828.	1.6	9
9	Breast cancer differential diagnosis using diffuse optical spectroscopic imaging and regression with z-score normalized data. <i>Journal of Biomedical Optics</i> , 2021, 26, .	1.4	5
10	Wavelength censoring for spectroscopy in optical functional neuroimaging. <i>Physics in Medicine and Biology</i> , 2021, 66, 065026.	1.6	8
11	Blood flow response to orthostatic challenge identifies signatures of the failure of static cerebral autoregulation in patients with cerebrovascular disease. <i>BMC Neurology</i> , 2021, 21, 154.	0.8	4
12	Towards rapid intraoperative axial localization of spinal cord ischemia with epidural diffuse correlation monitoring. <i>PLoS ONE</i> , 2021, 16, e0251271.	1.1	3
13	NIR Fluorescent Imaging and Photodynamic Therapy with a Novel Theranostic Phospholipid Probe for Triple-Negative Breast Cancer Cells. <i>Bioconjugate Chemistry</i> , 2021, 32, 1852-1863.	1.8	14
14	Structural and short-time vibrational properties of colloidal glasses and supercooled liquids in the vicinity of the re-entrant glass transition. <i>Journal of Chemical Physics</i> , 2021, 155, 074902.	1.2	3
15	Optical Detection of Intracranial Pressure and Perfusion Changes in Neonates With Hydrocephalus. <i>Journal of Pediatrics</i> , 2021, 236, 54-61.e1.	0.9	15
16	Exercise Training Increases Resting Calf Muscle Oxygen Metabolism in Patients with Peripheral Artery Disease. <i>Metabolites</i> , 2021, 11, 814.	1.3	2
17	Non-invasive optical neuromonitoring of the temperature-dependence of cerebral oxygen metabolism during deep hypothermic cardiopulmonary bypass in neonatal swine. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2020, 40, 187-203.	2.4	30
18	Quantification of cerebral blood flow in adults by contrast-enhanced near-infrared spectroscopy: Validation against MRI. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2020, 40, 1672-1684.	2.4	38

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19	Reactive Oxygen Species Explicit Dosimetry for Photofrin-mediated Pleural Photodynamic Therapy. Photochemistry and Photobiology, 2020, 96, 340-348.	1.3	15
20	Shear-assisted grain coarsening in colloidal polycrystals. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 24055-24060.	3.3	7
21	Scaling of relaxation and excess entropy in plastically deformed amorphous solids. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 11887-11893.	3.3	14
22	Multi-Site Optical Monitoring of Spinal Cord Ischemia during Spine Distraction. Journal of Neurotrauma, 2020, 37, 2014-2022.	1.7	5
23	Blood Flow Measurements Enable Optimization of Light Delivery for Personalized Photodynamic Therapy. Cancers, 2020, 12, 1584.	1.7	8
24	Noninvasive optical measurement of microvascular cerebral hemodynamics and autoregulation in the neonatal ECMO patient. Pediatric Research, 2020, 88, 925-933.	1.1	23
25	Functional near-infrared spectroscopy for speech protocols: characterization of motion artifacts and guidelines for improving data analysis. Neurophotonics, 2020, 7, 1.	1.7	30
26	Oxygen Saturation and Blood Flow Measured as a Function of Time During Cardiopulmonary Bypass. , 2020, , .		0
27	Asymmetric, dynamic adaptation in prefrontal cortex during dichotic listening tasks. Neurophotonics, 2020, 7, 045008.	1.7	1
28	Detection of Brain Hypoxia Based on Noninvasive Optical Monitoring of Cerebral Blood Flow with Diffuse Correlation Spectroscopy. Neurocritical Care, 2019, 30, 72-80.	1.2	39
29	Cerebral Blood Flow Response During Bolus Normal Saline Infusion After Ischemic Stroke. Journal of Stroke and Cerebrovascular Diseases, 2019, 28, 104294.	0.7	8
30	Correlations between short- and long-time relaxation in colloidal supercooled liquids and glasses. Physical Review E, 2019, 100, 020603.	0.8	7
31	Excess entropy and long-time diffusion in colloidal fluids with short-range interparticle attraction. Journal of Chemical Physics, 2019, 150, 144907.	1.2	8
32	Perfusion Enhancement with Respiratory Impedance After Stroke (PERI-Stroke). Neurotherapeutics, 2019, 16, 1296-1303.	2.1	6
33	Dynamic Heterogeneities in Colloidal Supercooled Liquids: Experimental Tests of Inhomogeneous Mode Coupling Theory. Journal of Physical Chemistry B, 2019, 123, 5181-5188.	1.2	4
34	Continuous non-invasive optical monitoring of cerebral blood flow and oxidative metabolism after acute brain injury. Journal of Cerebral Blood Flow and Metabolism, 2019, 39, 1469-1485.	2.4	60
35	Transcranial Optical Monitoring of Cerebral Hemodynamics in Acute Stroke Patients during Mechanical Thrombectomy. Journal of Stroke and Cerebrovascular Diseases, 2019, 28, 1483-1494.	0.7	23
36	Molecular heterogeneity drives reconfigurable nematic liquid crystal drops. Nature, 2019, 576, 433-436.	13.7	41

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37	Heterogeneous Activation, Local Structure, and Softness in Supercooled Colloidal Liquids. <i>Physical Review Letters</i> , 2019, 122, 028001.	2.9	40
38	Hybrid time-domain and continuous-wave diffuse optical tomography instrument with concurrent, clinical magnetic resonance imaging for breast cancer imaging. <i>Journal of Biomedical Optics</i> , 2019, 24, 1.	1.4	26
39	Brain segmentation, spatial censoring, and averaging techniques for optical functional connectivity imaging in mice. <i>Biomedical Optics Express</i> , 2019, 10, 5952.	1.5	13
40	Special Section Guest Editorial: Celebration of the Britton Chance Legacy. <i>Journal of Biomedical Optics</i> , 2019, 24, 1.	1.4	0
41	Fluorescence-guided surgery and intervention – An AAPM emerging technology blue paper. <i>Medical Physics</i> , 2018, 45, 2681-2688.	1.6	29
42	Interaction anisotropy and the KPZ to KPZQ transition in particle deposition at the edges of drying drops. <i>Soft Matter</i> , 2018, 14, 1903-1907.	1.2	10
43	Dynamic autoregulation of cerebral blood flow measured non-invasively with fast diffuse correlation spectroscopy. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2018, 38, 230-240.	2.4	36
44	Brownian Dynamics of Particles “Dressed” by Chiral Director Configurations in Lyotropic Chromonic Liquid Crystals. <i>Physical Review Letters</i> , 2018, 121, 177801.	2.9	10
45	Preoperative cerebral hemodynamics from birth to surgery in neonates with critical congenital heart disease. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2018, 156, 1657-1664.	0.4	61
46	Laser safety in fiber-optic monitoring of spinal cord hemodynamics: a preclinical evaluation. <i>Journal of Biomedical Optics</i> , 2018, 23, 1.	1.4	11
47	Tissue oxygen saturation predicts response to breast cancer neoadjuvant chemotherapy within 10 days of treatment. <i>Journal of Biomedical Optics</i> , 2018, 24, 1.	1.4	32
48	Noninvasive continuous optical monitoring of absolute cerebral blood flow in critically ill adults. <i>Neurophotonics</i> , 2018, 5, 1.	1.7	42
49	DIFFUSE OPTICAL MONITORING OF BRAIN AND BREAST. , 2018, , .		0
50	Clinical applications of high-speed blood flow measurements with diffuse correlation spectroscopy. , 2017, , .		1
51	Diffusive and martensitic nucleation kinetics in solid-solid transitions of colloidal crystals. <i>Nature Communications</i> , 2017, 8, 14978.	5.8	45
52	Noninvasive optical monitoring of critical closing pressure and arteriole compliance in human subjects. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2017, 37, 2691-2705.	2.4	51
53	Deposition and drying dynamics of liquid crystal droplets. <i>Nature Communications</i> , 2017, 8, 15642.	5.8	66
54	Mapping breast cancer blood flow index, composition, and metabolism in a human subject using combined diffuse optical spectroscopic imaging and diffuse correlation spectroscopy. <i>Journal of Biomedical Optics</i> , 2017, 22, 045003.	1.4	40

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55	Effects of exercise training on calf muscle oxygen extraction and blood flow in patients with peripheral artery disease. <i>Journal of Applied Physiology</i> , 2017, 123, 1599-1609.	1.2	51
56	Structure-property relationships from universal signatures of plasticity in disordered solids. <i>Science</i> , 2017, 358, 1033-1037.	6.0	218
57	Non-Invasive Respiratory Impedance Enhances Cerebral Perfusion in Healthy Adults. <i>Frontiers in Neurology</i> , 2017, 8, 45.	1.1	8
58	Performance assessment of diffuse optical spectroscopic imaging instruments in a 2-year multicenter breast cancer trial. <i>Journal of Biomedical Optics</i> , 2017, 22, 1.	1.4	41
59	Continuous cerebral hemodynamic measurement during deep hypothermic circulatory arrest. <i>Biomedical Optics Express</i> , 2016, 7, 3461.	1.5	30
60	Correlated rearrangements of disordered colloidal suspensions in the vicinity of the reentrant glass transition. <i>Europhysics Letters</i> , 2016, 115, 68003.	0.7	7
61	Heterodyne frequency-domain multispectral diffuse optical tomography of breast cancer in the parallel-plane transmission geometry. <i>Medical Physics</i> , 2016, 43, 4383-4395.	1.6	21
62	Dynamics of ordered colloidal particle monolayers at nematic liquid crystal interfaces. <i>Soft Matter</i> , 2016, 12, 4715-4724.	1.2	8
63	Fast blood flow monitoring in deep tissues with real-time software correlators. <i>Biomedical Optics Express</i> , 2016, 7, 776.	1.5	93
64	Predicting Responses to Neoadjuvant Chemotherapy in Breast Cancer: ACRIN 6691 Trial of Diffuse Optical Spectroscopic Imaging. <i>Cancer Research</i> , 2016, 76, 5933-5944.	0.4	105
65	Functional monitoring of blood flow dynamics in brain with photon correlation techniques. , 2016, , .		1
66	Tunable depletion potentials driven by shape variation of surfactant micelles. <i>Physical Review E</i> , 2016, 93, 050601.	0.8	16
67	Stimuli-Responsive Shape Switching of Polymer Colloids by Temperature-Sensitive Absorption of Solvent. <i>Angewandte Chemie</i> , 2016, 128, 10106-10109.	1.6	6
68	Stimuli-Responsive Shape Switching of Polymer Colloids by Temperature-Sensitive Absorption of Solvent. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 9952-9955.	7.2	13
69	Vibrational properties of quasi-two-dimensional colloidal glasses with varying interparticle attraction. <i>Physical Review E</i> , 2016, 94, 042606.	0.8	7
70	Cerebral Blood Flow Response to Hypercapnia in Children with Obstructive Sleep Apnea Syndrome. <i>Sleep</i> , 2016, 39, 209-216.	0.6	26
71	Cerebral Autoregulation Dynamics with High-Speed Diffuse Correlation Spectroscopy. , 2016, , .		1
72	Chiral structures and defects of lyotropic chromonic liquid crystals induced by saddle-splay elasticity. <i>Physical Review E</i> , 2015, 91, 050501.	0.8	81

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73	Strain fluctuations and elastic moduli in disordered solids. <i>Physical Review E</i> , 2015, 92, 022307.	0.8	6
74	Macroscopic optical physiological parameters correlate with microscopic proliferation and vessel area breast cancer signatures. <i>Breast Cancer Research</i> , 2015, 17, 72.	2.2	18
75	Fiber-optic Monitoring of Spinal Cord Hemodynamics in Experimental Aortic Occlusion. <i>Anesthesiology</i> , 2015, 123, 1362-1373.	1.3	18
76	Temperature-sensitive Hydrogel Particle Films from Evaporating Drops. <i>Advanced Materials Interfaces</i> , 2015, 2, 1500371.	1.9	20
77	Measuring the Nonuniform Evaporation Dynamics of Sprayed Sessile Microdroplets with Quantitative Phase Imaging. <i>Langmuir</i> , 2015, 31, 11020-11032.	1.6	20
78	Pressure modulation algorithm to separate cerebral hemodynamic signals from extracerebral artifacts. <i>Neurophotonics</i> , 2015, 2, 035004.	1.7	70
79	Calibration of diffuse correlation spectroscopy blood flow index with venous-occlusion diffuse optical spectroscopy in skeletal muscle. <i>Journal of Biomedical Optics</i> , 2015, 20, 125005.	1.4	21
80	Tunable Capillary-Induced Attraction between Vertical Cylinders. <i>Langmuir</i> , 2015, 31, 2421-2429.	1.6	18
81	Diagnosing hyperuniformity in two-dimensional, disordered, jammed packings of soft spheres. <i>Physical Review E</i> , 2015, 91, 012302.	0.8	81
82	Modified Beer-Lambert law for blood flow. , 2015, , .		1
83	HIF modulation of Wnt signaling regulates skeletal myogenesis <i>in vivo</i> . <i>Development (Cambridge)</i> , 2015, 142, 2405-12.	1.2	60
84	Liquid crystal Janus emulsion droplets: preparation, tumbling, and swimming. <i>Soft Matter</i> , 2015, 11, 6747-6754.	1.2	52
85	Chiral structures from achiral liquid crystals in cylindrical capillaries. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E1837-44.	3.3	96
86	Intraoperative near-infrared fluorescence imaging and spectroscopy identifies residual tumor cells in wounds. <i>Journal of Biomedical Optics</i> , 2015, 20, 076002.	1.4	39
87	Two-step nucleation mechanism in solid-solid phase transitions. <i>Nature Materials</i> , 2015, 14, 101-108.	13.3	256
88	Optically Measured Microvascular Blood Flow Contrast of Malignant Breast Tumors. <i>PLoS ONE</i> , 2014, 9, e99683.	1.1	39
89	Vibrational and structural signatures of the crossover between dense glassy and sparse gel-like attractive colloidal packings. <i>Physical Review E</i> , 2014, 90, 062305.	0.8	12
90	Diffuse correlation spectroscopy for measurement of cerebral blood flow: future prospects. <i>Neurophotonics</i> , 2014, 1, 011009.	1.7	176

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91	Modified Beer-Lambert law for blood flow. Biomedical Optics Express, 2014, 5, 4053.	1.5	186
92	Cerebral Oxygen Metabolism in Neonates with Congenital Heart Disease Quantified by MRI and Optics. Journal of Cerebral Blood Flow and Metabolism, 2014, 34, 380-388.	2.4	161
93	Response to Letter Regarding Article, "Optical Bedside Monitoring of Cerebral Blood Flow in Acute Ischemic Stroke Patients During Head-of-Bed Manipulation" Stroke, 2014, 45, e190.	1.0	1
94	Characterizing microdroplet evaporation using diffraction phase microscopy. , 2014, , .		0
95	Continuous Optical Monitoring of Cerebral Hemodynamics During Head-of-Bed Manipulation in Brain-Injured Adults. Neurocritical Care, 2014, 20, 443-453.	1.2	56
96	Phonon dispersion and elastic moduli of two-dimensional disordered colloidal packings of soft particles with frictional interactions. Physical Review E, 2014, 89, 012301.	0.8	23
97	Optical Bedside Monitoring of Cerebral Blood Flow in Acute Ischemic Stroke Patients During Head-of-Bed Manipulation. Stroke, 2014, 45, 1269-1274.	1.0	78
98	Diffuse correlation spectroscopy for non-invasive, micro-vascular cerebral blood flow measurement. NeuroImage, 2014, 85, 51-63.	2.1	405
99	Chiral symmetry breaking and surface faceting in chromonic liquid crystal droplets with giant elastic anisotropy. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 1742-1747.	3.3	117
100	Time to surgery and preoperative cerebral hemodynamics predict postoperative white matter injury in neonates with hypoplastic left heart syndrome. Journal of Thoracic and Cardiovascular Surgery, 2014, 148, 2181-2188.	0.4	112
101	Rheology of soft colloids across the onset of rigidity: scaling behavior, thermal, and non-thermal responses. Soft Matter, 2014, 10, 3027.	1.2	57
102	Physics in ordered and disordered colloidal matter composed of poly(<i>N</i> -isopropylacrylamide) microgel particles. Reports on Progress in Physics, 2014, 77, 056601.	8.1	123
103	Noninvasive Optical Quantification of Cerebral Venous Oxygen Saturation in Humans. Academic Radiology, 2014, 21, 162-167.	1.3	27
104	Blood Flow Reduction in Breast Tissue due to Mammographic Compression. Academic Radiology, 2014, 21, 151-161.	1.3	23
105	Coffee rings and coffee disks: Physics on the edge. Physics Today, 2013, 66, 60-61.	0.3	15
106	Diffuse optical tomography in the presence of a chest wall. Journal of Biomedical Optics, 2013, 18, 026016.	1.4	6
107	Early postoperative changes in cerebral oxygen metabolism following neonatal cardiac surgery: Effects of surgical duration. Journal of Thoracic and Cardiovascular Surgery, 2013, 145, 196-205.e1.	0.4	55
108	Effects of Particle Shape on Growth Dynamics at Edges of Evaporating Drops of Colloidal Suspensions. Physical Review Letters, 2013, 110, 035501.	2.9	127

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109	Synthesis of micrometer-size poly(N-isopropylacrylamide) microgel particles with homogeneous crosslinker density and diameter control. <i>Journal of Colloid and Interface Science</i> , 2013, 405, 96-102.	5.0	95
110	Buckled colloidal monolayers connect geometric frustration in soft and hard matter. <i>Soft Matter</i> , 2013, 9, 6565.	1.2	9
111	Relationship between neighbor number and vibrational spectra in disordered colloidal clusters with attractive interactions. <i>Journal of Chemical Physics</i> , 2013, 138, 12A525.	1.2	6
112	Phonons in two-dimensional colloidal crystals with bond-strength disorder. <i>Physical Review E</i> , 2013, 87, 052301.	0.8	15
113	Neurovascular Coupling Varies with Level of Global Cerebral Ischemia in a Rat Model. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2013, 33, 97-105.	2.4	37
114	Influence of probe pressure on the diffuse correlation spectroscopy blood flow signal: extra-cerebral contributions. <i>Biomedical Optics Express</i> , 2013, 4, 978.	1.5	50
115	Optical malignancy parameters for monitoring progression of breast cancer neoadjuvant chemotherapy. <i>Biomedical Optics Express</i> , 2013, 4, 105.	1.5	25
116	Diffuse optical characterization of an exercising patient group with peripheral artery disease. <i>Journal of Biomedical Optics</i> , 2013, 18, 057007.	1.4	27
117	Blood flow and oxygenation changes due to low-frequency repetitive transcranial magnetic stimulation of the cerebral cortex. <i>Journal of Biomedical Optics</i> , 2013, 18, 067006.	1.4	36
118	Sodium bicarbonate causes dose-dependent increases in cerebral blood flow in infants and children with single-ventricle physiology. <i>Pediatric Research</i> , 2013, 73, 668-673.	1.1	20
119	Phonons in two-dimensional soft colloidal crystals. <i>Physical Review E</i> , 2013, 88, 022315.	0.8	47
120	Yunker et al. Reply. <i>Physical Review Letters</i> , 2013, 111, 209602.	2.9	12
121	Optical Monitoring and Detection of Spinal Cord Ischemia. <i>PLoS ONE</i> , 2013, 8, e83370.	1.1	32
122	Validation of diffuse correlation spectroscopic measurement of cerebral blood flow using phase-encoded velocity mapping magnetic resonance imaging. <i>Journal of Biomedical Optics</i> , 2012, 17, 037007.	1.4	77
123	Non-affine deformations in polymer hydrogels. <i>Soft Matter</i> , 2012, 8, 8039.	1.2	123
124	Nonaffine Displacements in Flexible Polymer Networks. <i>Macromolecules</i> , 2011, 44, 1671-1679.	2.2	77
125	Suppression of the coffee-ring effect by shape-dependent capillary interactions. <i>Nature</i> , 2011, 476, 308-311.	13.7	1,288
126	Britton Chance 1913-2010. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2011, 369, 4380-4389.	1.6	1

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127	Cooperative Rearrangement Regions and Dynamical Heterogeneities in Colloidal Glasses with Attractive Versus Repulsive Interactions. <i>Physical Review Letters</i> , 2011, 107, 208303.	2.9	114
128	Measurement of Correlations between Low-Frequency Vibrational Modes and Particle Rearrangements in Quasi-Two-Dimensional Colloidal Glasses. <i>Physical Review Letters</i> , 2011, 107, 108301.	2.9	98
129	NON-INVASIVE MEASUREMENT OF DEEP TISSUE TEMPERATURE CHANGES CAUSED BY APOPTOSIS DURING BREAST CANCER NEOADJUVANT CHEMOTHERAPY: A CASE STUDY. <i>Journal of Innovative Optical Health Sciences</i> , 2011, 04, 361-372.	0.5	17
130	Direct measurement of tissue blood flow and metabolism with diffuse optics. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2011, 369, 4390-4406.	1.6	151
131	Use of Diffuse Correlation Spectroscopy To Measure Brain Blood Flow Differences During Speaking and Nonspeaking Tasks for Fluent Speakers and Persons Who Stutter. <i>Perspectives on Fluency and Fluency Disorders</i> , 2011, 21, 96-106.	0.3	8
132	Rheology of Soft Materials. <i>Annual Review of Condensed Matter Physics</i> , 2010, 1, 301-322.	5.2	305
133	Noninvasive Measurement of Cerebral Blood Flow and Blood Oxygenation Using Near-Infrared and Diffuse Correlation Spectroscopies in Critically Brain-Injured Adults. <i>Neurocritical Care</i> , 2010, 12, 173-180.	1.2	255
134	The effects of healthy aging on cerebral hemodynamic responses to posture change. <i>Physiological Measurement</i> , 2010, 31, 477-495.	1.2	60
135	Observation of the Disorder-Induced Crystal-to-Glass Transition. <i>Physical Review Letters</i> , 2010, 104, 015701.	2.9	69
136	Low-Frequency Vibrations of Soft Colloidal Glasses. <i>Physical Review Letters</i> , 2010, 105, 025501.	2.9	147
137	Optical measurement of cerebral hemodynamics and oxygen metabolism in neonates with congenital heart defects. <i>Journal of Biomedical Optics</i> , 2010, 15, 037004.	1.4	157
138	Diffuse optics for tissue monitoring and tomography. <i>Reports on Progress in Physics</i> , 2010, 73, 076701.	8.1	905
139	Two-dimensional freezing criteria for crystallizing colloidal monolayers. <i>Journal of Chemical Physics</i> , 2010, 132, 154501.	1.2	61
140	Microfluidic Rheology of Soft Colloids above and below Jamming. <i>Physical Review Letters</i> , 2010, 105, 175701.	2.9	162
141	Hemodynamic and metabolic diffuse optical monitoring in a mouse model of hindlimb ischemia. <i>Biomedical Optics Express</i> , 2010, 1, 1173.	1.5	43
142	Diffuse optical monitoring of hemodynamic changes in piglet brain with closed head injury. <i>Journal of Biomedical Optics</i> , 2009, 14, 034015.	1.4	162
143	Differentiation of benign and malignant breast tumors by in-vivo three-dimensional parallel-plate diffuse optical tomography. <i>Journal of Biomedical Optics</i> , 2009, 14, 024020.	1.4	189
144	Thermal vestige of the zero-temperature jamming transition. <i>Nature</i> , 2009, 459, 230-233.	13.7	232

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145	Transcranial optical monitoring of cerebrovascular hemodynamics in acute stroke patients. Optics Express, 2009, 17, 3884.	1.7	149
146	Cerebral hemodynamics in preterm infants during positional intervention measured with diffuse correlation spectroscopy and transcranial Doppler ultrasound. Optics Express, 2009, 17, 12571.	1.7	159
147	Diffuse optics for monitoring brain hemodynamics. , 2009, 2009, 1991-3.		2
148	Particle dynamics in colloidal suspensions above and below the glass-liquid re-entrance transition. Europhysics Letters, 2009, 86, 58001.	0.7	17
149	Non-invasive assessment of tumor neovasculature: techniques and clinical applications. Cancer and Metastasis Reviews, 2008, 27, 615-630.	2.7	46
150	Breast cancer imaging and stroke monitoring with diffuse optics. , 2008, 2008, 1.		0
151	Assessing the future of diffuse optical imaging technologies for breast cancer management. Medical Physics, 2008, 35, 2443-2451.	1.6	289
152	Diffuse optical monitoring of blood flow and oxygenation in human breast cancer during early stages of neoadjuvant chemotherapy. Journal of Biomedical Optics, 2007, 12, 051903.	1.4	169
153	Validation of diffuse correlation spectroscopy for muscle blood flow with concurrent arterial spin labeled perfusion MRI. Optics Express, 2007, 15, 1064.	1.7	198
154	Three-dimensional in vivo fluorescence diffuse optical tomography of breast cancer in humans. Optics Express, 2007, 15, 6696.	1.7	357
155	Hemodynamic responses to antivasular therapy and ionizing radiation assessed by diffuse optical spectroscopies. Optics Express, 2007, 15, 15507.	1.7	51
156	Carbon Nanotube Aerogels. Advanced Materials, 2007, 19, 661-664.	11.1	518
157	Noninvasive diffuse optical measurement of blood flow and blood oxygenation for monitoring radiation therapy in patients with head and neck tumors: a pilot study. Journal of Biomedical Optics, 2006, 11, 064021.	1.4	112
158	Structure of Semidilute Single-Wall Carbon Nanotube Suspensions and Gels. Nano Letters, 2006, 6, 313-317.	4.5	116
159	Diffuse optical correlation tomography of cerebral blood flow during cortical spreading depression in rat brain. Optics Express, 2006, 14, 1125.	1.7	197
160	Distinct structural and mechanical properties of the nuclear lamina in Hutchinson-Gilford progeria syndrome. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 10271-10276.	3.3	333
161	Brownian Motion of an Ellipsoid. Science, 2006, 314, 626-630.	6.0	421
162	Real-time In Situ Monitoring of Human Prostate Photodynamic Therapy with Diffuse Light. Photochemistry and Photobiology, 2006, 82, 1279.	1.3	102

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163	Single Wall Carbon Nanotube Aerogels. , 2006, , .		1
164	Very Low Conductivity Threshold in Bulk Isotropic Single-Walled Carbon Nanotube-Epoxy Composites. Advanced Materials, 2005, 17, 1186-1191.	11.1	567
165	Noninvasive Monitoring of Murine Tumor Blood Flow During and After Photodynamic Therapy Provides Early Assessment of Therapeutic Efficacy. Clinical Cancer Research, 2005, 11, 3543-3552.	3.2	213
166	Premelting at Defects Within Bulk Colloidal Crystals. Science, 2005, 309, 1207-1210.	6.0	435
167	Diffuse optical tomography of breast cancer during neoadjuvant chemotherapy: A case study with comparison to MRI. Medical Physics, 2005, 32, 1128-1139.	1.6	261
168	Capillary Interactions Between Anisotropic Colloidal Particles. Physical Review Letters, 2005, 94, 018301.	2.9	326
169	Thermal conductivity and interfacial resistance in single-wall carbon nanotube epoxy composites. Applied Physics Letters, 2005, 87, 161909.	1.5	360
170	Time-dependent blood flow and oxygenation in human skeletal muscles measured with noninvasive near-infrared diffuse optical spectroscopies. Journal of Biomedical Optics, 2005, 10, 024027.	1.4	192
171	Diffuse optical measurement of cerebral metabolic rate of oxygen in adult brain. Journal of Cerebral Blood Flow and Metabolism, 2005, 25, S412-S412.	2.4	0
172	Development of diffuse correlation techniques for non-invasive measurement of cerebral blood flow and oxygen metabolism in rats. Journal of Cerebral Blood Flow and Metabolism, 2005, 25, S413-S413.	2.4	0
173	Diffuse optical measurement of blood flow, blood oxygenation, and metabolism in a human brain during sensorimotor cortex activation. Optics Letters, 2004, 29, 1766.	1.7	311
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