

# Arjun G Yodh

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

192  
papers

18,745  
citations

68  
h-index

136  
g-index

209  
ext. papers

21,322  
ext. citations

6.7  
avg, IF

6.56  
L-index

#	Paper	IF	Citations
192	Giant director fluctuations in liquid crystal drops.. <i>Physical Review E</i> , <b>2022</b> , 105, 044702	2.4	1
191	Theory of director fluctuations about a hedgehog defect in a nematic drop.. <i>Physical Review E</i> , <b>2022</b> , 105, 044703	2.4	1
190	Wavelength censoring for spectroscopy in optical functional neuroimaging. <i>Physics in Medicine and Biology</i> , <b>2021</b> , 66, 065026	3.8	3
189	Blood flow response to orthostatic challenge identifies signatures of the failure of static cerebral autoregulation in patients with cerebrovascular disease. <i>BMC Neurology</i> , <b>2021</b> , 21, 154	3.1	2
188	Towards rapid intraoperative axial localization of spinal cord ischemia with epidural diffuse correlation monitoring. <i>PLoS ONE</i> , <b>2021</b> , 16, e0251271	3.7	2
187	NIR Fluorescent Imaging and Photodynamic Therapy with a Novel Theranostic Phospholipid Probe for Triple-Negative Breast Cancer Cells. <i>Bioconjugate Chemistry</i> , <b>2021</b> , 32, 1852-1863	6.3	4
186	Non-invasive diffuse optical neuromonitoring during cardiopulmonary resuscitation predicts return of spontaneous circulation. <i>Scientific Reports</i> , <b>2021</b> , 11, 3828	4.9	2
185	Breast cancer differential diagnosis using diffuse optical spectroscopic imaging and regression with z-score normalized data. <i>Journal of Biomedical Optics</i> , <b>2021</b> , 26,	3.5	2
184	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> , <b>2021</b> , 155, 074902	3.9	0
183	Optical Detection of Intracranial Pressure and Perfusion Changes in Neonates With Hydrocephalus. <i>Journal of Pediatrics</i> , <b>2021</b> , 236, 54-61.e1	3.6	3
182	Scaling of relaxation and excess entropy in plastically deformed amorphous solids. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 11887-11893	11.5	5
181	Multi-Site Optical Monitoring of Spinal Cord Ischemia during Spine Distraction. <i>Journal of Neurotrauma</i> , <b>2020</b> , 37, 2014-2022	5.4	3
180	Blood Flow Measurements Enable Optimization of Light Delivery for Personalized Photodynamic Therapy. <i>Cancers</i> , <b>2020</b> , 12,	6.6	2
179	Noninvasive optical measurement of microvascular cerebral hemodynamics and autoregulation in the neonatal ECMO patient. <i>Pediatric Research</i> , <b>2020</b> , 88, 925-933	3.2	11
178	Functional near-infrared spectroscopy for speech protocols: characterization of motion artifacts and guidelines for improving data analysis. <i>Neurophotonics</i> , <b>2020</b> , 7, 015001	3.9	16
177	Asymmetric, dynamic adaptation in prefrontal cortex during dichotic listening tasks. <i>Neurophotonics</i> , <b>2020</b> , 7, 045008	3.9	1
176	Reactive Oxygen Species Explicit Dosimetry for Photofrin-mediated Pleural Photodynamic Therapy. <i>Photochemistry and Photobiology</i> , <b>2020</b> , 96, 340-348	3.6	7

175	Shear-assisted grain coarsening in colloidal polycrystals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 24055-24060	11.5	1
174	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> , <b>2020</b> , 40, 187-203	7.3	14
173	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> , <b>2020</b> , 40, 1672-1684	7.3	19
172	Correlations between short- and long-time relaxation in colloidal supercooled liquids and glasses. <i>Physical Review E</i> , <b>2019</b> , 100, 020603	2.4	5
171	Excess entropy and long-time diffusion in colloidal fluids with short-range interparticle attraction. <i>Journal of Chemical Physics</i> , <b>2019</b> , 150, 144907	3.9	6
170	Perfusion Enhancement with Respiratory Impedance After Stroke (PERI-Stroke). <i>Neurotherapeutics</i> , <b>2019</b> , 16, 1296-1303	6.4	3
169	Dynamic Heterogeneities in Colloidal Supercooled Liquids: Experimental Tests of Inhomogeneous Mode Coupling Theory. <i>Journal of Physical Chemistry B</i> , <b>2019</b> , 123, 5181-5188	3.4	2
168	Continuous non-invasive optical monitoring of cerebral blood flow and oxidative metabolism after acute brain injury. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2019</b> , 39, 1469-1485	7.3	24
167	Transcranial Optical Monitoring of Cerebral Hemodynamics in Acute Stroke Patients during Mechanical Thrombectomy. <i>Journal of Stroke and Cerebrovascular Diseases</i> , <b>2019</b> , 28, 1483-1494	2.8	12
166	Detection of Brain Hypoxia Based on Noninvasive Optical Monitoring of Cerebral Blood Flow with Diffuse Correlation Spectroscopy. <i>Neurocritical Care</i> , <b>2019</b> , 30, 72-80	3.3	21
165	Cerebral Blood Flow Response During Bolus Normal Saline Infusion After Ischemic Stroke. <i>Journal of Stroke and Cerebrovascular Diseases</i> , <b>2019</b> , 28, 104294	2.8	7
164	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> , <b>2019</b> , 24, 1-11	3.5	16
163	Brain segmentation, spatial censoring, and averaging techniques for optical functional connectivity imaging in mice. <i>Biomedical Optics Express</i> , <b>2019</b> , 10, 5952-5973	3.5	7
162	Special Section Guest Editorial: Celebration of the Britton Chance Legacy. <i>Journal of Biomedical Optics</i> , <b>2019</b> , 24, 1-2	3.5	
161	Molecular heterogeneity drives reconfigurable nematic liquid crystal drops. <i>Nature</i> , <b>2019</b> , 576, 433-436	50.4	19
160	Heterogeneous Activation, Local Structure, and Softness in Supercooled Colloidal Liquids. <i>Physical Review Letters</i> , <b>2019</b> , 122, 028001	7.4	30
159	Fluorescence-guided surgery and intervention - An AAPM emerging technology blue paper. <i>Medical Physics</i> , <b>2018</b> , 45, 2681-2688	4.4	18
158	Interaction anisotropy and the KPZ to KPZQ transition in particle deposition at the edges of drying drops. <i>Soft Matter</i> , <b>2018</b> , 14, 1903-1907	3.6	6

157	Preoperative cerebral hemodynamics from birth to surgery in neonates with critical congenital heart disease. <i>Journal of Thoracic and Cardiovascular Surgery</i> , <b>2018</b> , 156, 1657-1664	1.5	33
156	Laser safety in fiber-optic monitoring of spinal cord hemodynamics: a preclinical evaluation. <i>Journal of Biomedical Optics</i> , <b>2018</b> , 23, 1-9	3.5	9
155	Tissue oxygen saturation predicts response to breast cancer neoadjuvant chemotherapy within 10 days of treatment. <i>Journal of Biomedical Optics</i> , <b>2018</b> , 24, 1-11	3.5	18
154	Noninvasive continuous optical monitoring of absolute cerebral blood flow in critically ill adults. <i>Neurophotonics</i> , <b>2018</b> , 5, 045006	3.9	32
153	Dynamic autoregulation of cerebral blood flow measured non-invasively with fast diffuse correlation spectroscopy. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2018</b> , 38, 230-240	7.3	23
152	Brownian Dynamics of Particles "Dressed" by Chiral Director Configurations in Lyotropic Chromonic Liquid Crystals. <i>Physical Review Letters</i> , <b>2018</b> , 121, 177801	7.4	8
151	Diffusive and martensitic nucleation kinetics in solid-solid transitions of colloidal crystals. <i>Nature Communications</i> , <b>2017</b> , 8, 14978	17.4	32
150	Noninvasive optical monitoring of critical closing pressure and arteriole compliance in human subjects. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2017</b> , 37, 2691-2705	7.3	29
149	Deposition and drying dynamics of liquid crystal droplets. <i>Nature Communications</i> , <b>2017</b> , 8, 15642	17.4	47
148	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> , <b>2017</b> , 22, 45003	3.5	26
147	Effects of exercise training on calf muscle oxygen extraction and blood flow in patients with peripheral artery disease. <i>Journal of Applied Physiology</i> , <b>2017</b> , 123, 1599-1609	3.7	33
146	Structure-property relationships from universal signatures of plasticity in disordered solids. <i>Science</i> , <b>2017</b> , 358, 1033-1037	33.3	144
145	Non-Invasive Respiratory Impedance Enhances Cerebral Perfusion in Healthy Adults. <i>Frontiers in Neurology</i> , <b>2017</b> , 8, 45	4.1	7
144	Performance assessment of diffuse optical spectroscopic imaging instruments in a 2-year multicenter breast cancer trial. <i>Journal of Biomedical Optics</i> , <b>2017</b> , 22, 121604	3.5	14
143	Predicting Responses to Neoadjuvant Chemotherapy in Breast Cancer: ACRIN 6691 Trial of Diffuse Optical Spectroscopic Imaging. <i>Cancer Research</i> , <b>2016</b> , 76, 5933-5944	10.1	73
142	Tunable depletion potentials driven by shape variation of surfactant micelles. <i>Physical Review E</i> , <b>2016</b> , 93, 050601	2.4	11
141	Stimuli-Responsive Shape Switching of Polymer Colloids by Temperature-Sensitive Absorption of Solvent. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 10106-10109	3.6	5
140	Stimuli-Responsive Shape Switching of Polymer Colloids by Temperature-Sensitive Absorption of Solvent. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 9952-5	16.4	11

139	Vibrational properties of quasi-two-dimensional colloidal glasses with varying interparticle attraction. <i>Physical Review E</i> , <b>2016</b> , 94, 042606	2.4	6
138	Cerebral Blood Flow Response to Hypercapnia in Children with Obstructive Sleep Apnea Syndrome. <i>Sleep</i> , <b>2016</b> , 39, 209-16	1.1	21
137	Cerebral Autoregulation Dynamics with High-Speed Diffuse Correlation Spectroscopy <b>2016</b> ,		1
136	Continuous cerebral hemodynamic measurement during deep hypothermic circulatory arrest. <i>Biomedical Optics Express</i> , <b>2016</b> , 7, 3461-3470	3.5	20
135	Correlated rearrangements of disordered colloidal suspensions in the vicinity of the reentrant glass transition. <i>Europhysics Letters</i> , <b>2016</b> , 115, 68003	1.6	7
134	Heterodyne frequency-domain multispectral diffuse optical tomography of breast cancer in the parallel-plane transmission geometry. <i>Medical Physics</i> , <b>2016</b> , 43, 4383	4.4	15
133	Dynamics of ordered colloidal particle monolayers at nematic liquid crystal interfaces. <i>Soft Matter</i> , <b>2016</b> , 12, 4715-24	3.6	8
132	Fast blood flow monitoring in deep tissues with real-time software correlators. <i>Biomedical Optics Express</i> , <b>2016</b> , 7, 776-97	3.5	53
131	Diagnosing hyperuniformity in two-dimensional, disordered, jammed packings of soft spheres. <i>Physical Review E</i> , <b>2015</b> , 91, 012302	2.4	66
130	HIF modulation of Wnt signaling regulates skeletal myogenesis in vivo. <i>Development (Cambridge)</i> , <b>2015</b> , 142, 2405-12	6.6	36
129	Liquid crystal Janus emulsion droplets: preparation, tumbling, and swimming. <i>Soft Matter</i> , <b>2015</b> , 11, 6743-54	3.5	40
128	Chiral structures from achiral liquid crystals in cylindrical capillaries. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, E1837-44	11.5	84
127	Intraoperative near-infrared fluorescence imaging and spectroscopy identifies residual tumor cells in wounds. <i>Journal of Biomedical Optics</i> , <b>2015</b> , 20, 76002	3.5	31
126	Two-step nucleation mechanism in solid-solid phase transitions. <i>Nature Materials</i> , <b>2015</b> , 14, 101-8	2.7	215
125	Chiral structures and defects of lyotropic chromonic liquid crystals induced by saddle-splay elasticity. <i>Physical Review E</i> , <b>2015</b> , 91, 050501	2.4	63
124	Strain fluctuations and elastic moduli in disordered solids. <i>Physical Review E</i> , <b>2015</b> , 92, 022307	2.4	5
123	Macroscopic optical physiological parameters correlate with microscopic proliferation and vessel area breast cancer signatures. <i>Breast Cancer Research</i> , <b>2015</b> , 17, 72	8.3	13
122	Fiber-optic Monitoring of Spinal Cord Hemodynamics in Experimental Aortic Occlusion. <i>Anesthesiology</i> , <b>2015</b> , 123, 1362-73	4.3	15

121	Temperature-Sensitive Hydrogel-Particle Films from Evaporating Drops. <i>Advanced Materials Interfaces</i> , <b>2015</b> , 2, 1500371	4.6	17
120	Measuring the Nonuniform Evaporation Dynamics of Sprayed Sessile Microdroplets with Quantitative Phase Imaging. <i>Langmuir</i> , <b>2015</b> , 31, 11020-32	4	18
119	Pressure modulation algorithm to separate cerebral hemodynamic signals from extracerebral artifacts. <i>Neurophotonics</i> , <b>2015</b> , 2, 035004	3.9	43
118	Calibration of diffuse correlation spectroscopy blood flow index with venous-occlusion diffuse optical spectroscopy in skeletal muscle. <i>Journal of Biomedical Optics</i> , <b>2015</b> , 20, 125005	3.5	15
117	Tunable capillary-induced attraction between vertical cylinders. <i>Langmuir</i> , <b>2015</b> , 31, 2421-9	4	12
116	Phonon dispersion and elastic moduli of two-dimensional disordered colloidal packings of soft particles with frictional interactions. <i>Physical Review E</i> , <b>2014</b> , 89, 012301	2.4	21
115	Optical bedside monitoring of cerebral blood flow in acute ischemic stroke patients during head-of-bed manipulation. <i>Stroke</i> , <b>2014</b> , 45, 1269-74	6.7	56
114	Diffuse correlation spectroscopy for non-invasive, micro-vascular cerebral blood flow measurement. <i>NeuroImage</i> , <b>2014</b> , 85 Pt 1, 51-63	7.9	255
113	Chiral symmetry breaking and surface faceting in chromonic liquid crystal droplets with giant elastic anisotropy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 1742-7	11.5	104
112	Time to surgery and preoperative cerebral hemodynamics predict postoperative white matter injury in neonates with hypoplastic left heart syndrome. <i>Journal of Thoracic and Cardiovascular Surgery</i> , <b>2014</b> , 148, 2181-8	1.5	80
111	Rheology of soft colloids across the onset of rigidity: scaling behavior, thermal, and non-thermal responses. <i>Soft Matter</i> , <b>2014</b> , 10, 3027-35	3.6	52
110	Physics in ordered and disordered colloidal matter composed of poly(N-isopropylacrylamide) microgel particles. <i>Reports on Progress in Physics</i> , <b>2014</b> , 77, 056601	14.4	104
109	Noninvasive optical quantification of cerebral venous oxygen saturation in humans. <i>Academic Radiology</i> , <b>2014</b> , 21, 162-7	4.3	21
108	Blood flow reduction in breast tissue due to mammographic compression. <i>Academic Radiology</i> , <b>2014</b> , 21, 151-61	4.3	19
107	Optically measured microvascular blood flow contrast of malignant breast tumors. <i>PLoS ONE</i> , <b>2014</b> , 9, e99683	3.7	30
106	Vibrational and structural signatures of the crossover between dense glassy and sparse gel-like attractive colloidal packings. <i>Physical Review E</i> , <b>2014</b> , 90, 062305	2.4	10
105	Diffuse correlation spectroscopy for measurement of cerebral blood flow: future prospects. <i>Neurophotonics</i> , <b>2014</b> , 1,	3.9	113
104	Modified Beer-Lambert law for blood flow. <i>Biomedical Optics Express</i> , <b>2014</b> , 5, 4053-75	3.5	115

103	Cerebral oxygen metabolism in neonates with congenital heart disease quantified by MRI and optics. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2014</b> , 34, 380-8	7.3	124
102	Response to Letter Regarding Article, "Optical Bedside Monitoring of Cerebral Blood Flow in Acute Ischemic Stroke Patients During Head-of-Bed Manipulation". <i>Stroke</i> , <b>2014</b> , 45, e190	6.7	
101	Continuous optical monitoring of cerebral hemodynamics during head-of-bed manipulation in brain-injured adults. <i>Neurocritical Care</i> , <b>2014</b> , 20, 443-53	3.3	42
100	Coffee rings and coffee disks: Physics on the edge. <i>Physics Today</i> , <b>2013</b> , 66, 60-61	0.9	13
99	Diffuse optical tomography in the presence of a chest wall. <i>Journal of Biomedical Optics</i> , <b>2013</b> , 18, 260163-5	3.5	5
98	Early postoperative changes in cerebral oxygen metabolism following neonatal cardiac surgery: effects of surgical duration. <i>Journal of Thoracic and Cardiovascular Surgery</i> , <b>2013</b> , 145, 196-203, 205.e1; discussion 203-5	1.5	43
97	Effects of particle shape on growth dynamics at edges of evaporating drops of colloidal suspensions. <i>Physical Review Letters</i> , <b>2013</b> , 110, 035501	7.4	107
96	Synthesis of micrometer-size poly(N-isopropylacrylamide) microgel particles with homogeneous crosslinker density and diameter control. <i>Journal of Colloid and Interface Science</i> , <b>2013</b> , 405, 96-102	9.3	78
95	Buckled colloidal monolayers connect geometric frustration in soft and hard matter. <i>Soft Matter</i> , <b>2013</b> , 9, 6565	3.6	7
94	Relationship between neighbor number and vibrational spectra in disordered colloidal clusters with attractive interactions. <i>Journal of Chemical Physics</i> , <b>2013</b> , 138, 12A525	3.9	6
93	Phonons in two-dimensional colloidal crystals with bond-strength disorder. <i>Physical Review E</i> , <b>2013</b> , 87, 052301	2.4	11
92	Neurovascular coupling varies with level of global cerebral ischemia in a rat model. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2013</b> , 33, 97-105	7.3	31
91	Influence of probe pressure on the diffuse correlation spectroscopy blood flow signal: extra-cerebral contributions. <i>Biomedical Optics Express</i> , <b>2013</b> , 4, 978-94	3.5	38
90	Optical malignancy parameters for monitoring progression of breast cancer neoadjuvant chemotherapy. <i>Biomedical Optics Express</i> , <b>2013</b> , 4, 105-21	3.5	23
89	Diffuse optical characterization of an exercising patient group with peripheral artery disease. <i>Journal of Biomedical Optics</i> , <b>2013</b> , 18, 57007	3.5	19
88	Blood flow and oxygenation changes due to low-frequency repetitive transcranial magnetic stimulation of the cerebral cortex. <i>Journal of Biomedical Optics</i> , <b>2013</b> , 18, 067006	3.5	25
87	Sodium bicarbonate causes dose-dependent increases in cerebral blood flow in infants and children with single-ventricle physiology. <i>Pediatric Research</i> , <b>2013</b> , 73, 668-73	3.2	16
86	Phonons in two-dimensional soft colloidal crystals. <i>Physical Review E</i> , <b>2013</b> , 88, 022315	2.4	43



85	Yunker et al. reply. <i>Physical Review Letters</i> , <b>2013</b> , 111, 209602	7.4	11
84	Optical monitoring and detection of spinal cord ischemia. <i>PLoS ONE</i> , <b>2013</b> , 8, e83370	3.7	25
83	Non-affine deformations in polymer hydrogels. <i>Soft Matter</i> , <b>2012</b> , 8, 8039-8049	3.6	104
82	Validation of diffuse correlation spectroscopic measurement of cerebral blood flow using phase-encoded velocity mapping magnetic resonance imaging. <i>Journal of Biomedical Optics</i> , <b>2012</b> , 17, 037007	3.5	55
81	Suppression of the coffee-ring effect by shape-dependent capillary interactions. <i>Nature</i> , <b>2011</b> , 476, 308-310	10.4	1071
80	Melting and Geometric Frustration in Temperature-Sensitive Colloids <b>2011</b> , 229-281		5
79	Britton Chance 1913-2010. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2011</b> , 369, 4380-4389	3	1
78	Cooperative rearrangement regions and dynamical heterogeneities in colloidal glasses with attractive versus repulsive interactions. <i>Physical Review Letters</i> , <b>2011</b> , 107, 208303	7.4	96
77	Measurement of correlations between low-frequency vibrational modes and particle rearrangements in quasi-two-dimensional colloidal glasses. <i>Physical Review Letters</i> , <b>2011</b> , 107, 108301	7.4	84
76	Nonaffine Displacements in Flexible Polymer Networks. <i>Macromolecules</i> , <b>2011</b> , 44, 1671-1679	5.5	66
75	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> , <b>2011</b> , 4, 361-372	1.2	12
74	Direct measurement of tissue blood flow and metabolism with diffuse optics. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2011</b> , 369, 4390-406	3	115
73	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> , <b>2011</b> , 21, 96-106		6
72	The effects of healthy aging on cerebral hemodynamic responses to posture change. <i>Physiological Measurement</i> , <b>2010</b> , 31, 477-95	2.9	50
71	Observation of the disorder-induced crystal-to-glass transition. <i>Physical Review Letters</i> , <b>2010</b> , 104, 015701	7.4	61
70	Low-frequency vibrations of soft colloidal glasses. <i>Physical Review Letters</i> , <b>2010</b> , 105, 025501	7.4	132
69	Optical measurement of cerebral hemodynamics and oxygen metabolism in neonates with congenital heart defects. <i>Journal of Biomedical Optics</i> , <b>2010</b> , 15, 037004	3.5	118
68	Diffuse Optics for Tissue Monitoring and Tomography. <i>Reports on Progress in Physics</i> , <b>2010</b> , 73,	14.4	627



67	Two-dimensional freezing criteria for crystallizing colloidal monolayers. <i>Journal of Chemical Physics</i> , <b>2010</b> , 132, 154501	3.9	48
66	Microfluidic rheology of soft colloids above and below jamming. <i>Physical Review Letters</i> , <b>2010</b> , 105, 175704	7.1	149
65	Hemodynamic and metabolic diffuse optical monitoring in a mouse model of hindlimb ischemia. <i>Biomedical Optics Express</i> , <b>2010</b> , 1, 1173-1187	3.5	39
64	Rheology of Soft Materials. <i>Annual Review of Condensed Matter Physics</i> , <b>2010</b> , 1, 301-322	19.7	246
63	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> , <b>2010</b> , 12, 173-80	3.3	200
62	Diffuse optical monitoring of hemodynamic changes in piglet brain with closed head injury. <i>Journal of Biomedical Optics</i> , <b>2009</b> , 14, 034015	3.5	128
61	Differentiation of benign and malignant breast tumors by in-vivo three-dimensional parallel-plate diffuse optical tomography. <i>Journal of Biomedical Optics</i> , <b>2009</b> , 14, 024020	3.5	151
60	Thermal vestige of the zero-temperature jamming transition. <i>Nature</i> , <b>2009</b> , 459, 230-3	50.4	219
59	Transcranial optical monitoring of cerebrovascular hemodynamics in acute stroke patients. <i>Optics Express</i> , <b>2009</b> , 17, 3884-902	3.3	113
58	Cerebral hemodynamics in preterm infants during positional intervention measured with diffuse correlation spectroscopy and transcranial Doppler ultrasound. <i>Optics Express</i> , <b>2009</b> , 17, 12571-81	3.3	123
57	Diffuse optics for monitoring brain hemodynamics. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2009</b> , 2009, 1991-3	0.9	1
56	Particle dynamics in colloidal suspensions above and below the glass-liquid re-entrance transition. <i>Europhysics Letters</i> , <b>2009</b> , 86, 58001	1.6	17
55	Breast cancer imaging and stroke monitoring with diffuse optics. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2008</b> , 2008, 1	0.9	
54	Non-invasive assessment of tumor neovasculature: techniques and clinical applications. <i>Cancer and Metastasis Reviews</i> , <b>2008</b> , 27, 615-30	9.6	42
53	Assessing the future of diffuse optical imaging technologies for breast cancer management. <i>Medical Physics</i> , <b>2008</b> , 35, 2443-51	4.4	232
52	Carbon Nanotube Aerogels. <i>Advanced Materials</i> , <b>2007</b> , 19, 661-664	24	454
51	Diffuse optical monitoring of blood flow and oxygenation in human breast cancer during early stages of neoadjuvant chemotherapy. <i>Journal of Biomedical Optics</i> , <b>2007</b> , 12, 051903	3.5	125
50	Validation of diffuse correlation spectroscopy for muscle blood flow with concurrent arterial spin labeled perfusion MRI. <i>Optics Express</i> , <b>2007</b> , 15, 1064-75	3.3	150

49	Three-dimensional in vivo fluorescence diffuse optical tomography of breast cancer in humans. <i>Optics Express</i> , <b>2007</b> , 15, 6696-716	3.3	278
48	Hemodynamic responses to antivascular therapy and ionizing radiation assessed by diffuse optical spectroscopies. <i>Optics Express</i> , <b>2007</b> , 15, 15507-16	3.3	48
47	Noninvasive diffuse optical measurement of blood flow and blood oxygenation for monitoring radiation therapy in patients with head and neck tumors: a pilot study. <i>Journal of Biomedical Optics</i> , <b>2006</b> , 11, 064021	3.5	85
46	Structure of semidilute single-wall carbon nanotube suspensions and gels. <i>Nano Letters</i> , <b>2006</b> , 6, 313-7	11.5	106
45	Diffuse optical correlation tomography of cerebral blood flow during cortical spreading depression in rat brain. <i>Optics Express</i> , <b>2006</b> , 14, 1125-44	3.3	145
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36	Time-dependent blood flow and oxygenation in human skeletal muscles measured with noninvasive near-infrared diffuse optical spectroscopies. <i>Journal of Biomedical Optics</i> , <b>2005</b> , 10, 024027	3.5	156
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