

Arjun G Yodh

List of Publications by Citations

Source: <https://exaly.com/author-pdf/9452546/arjun-g-yodh-publications-by-citations.pdf>

Version: 2024-04-23

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	High Weight Fraction Surfactant Solubilization of Single-Wall Carbon Nanotubes in Water. <i>Nano Letters</i> , 2003 , 3, 269-273	11.5	1582
191	Suppression of the coffee-ring effect by shape-dependent capillary interactions. <i>Nature</i> , 2011 , 476, 308-310	10.4	1071
190	Concurrent MRI and diffuse optical tomography of breast after indocyanine green enhancement. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000 , 97, 2767-72	11.5	658
189	Spectroscopy and Imaging with Diffusing Light. <i>Physics Today</i> , 1995 , 48, 34-40	0.9	634
188	Diffuse Optics for Tissue Monitoring and Tomography. <i>Reports on Progress in Physics</i> , 2010 , 73,	14.4	627
187	Very Low Conductivity Threshold in Bulk Isotropic Single-Walled Carbon Nanotube/Epoxy Composites. <i>Advanced Materials</i> , 2005 , 17, 1186-1191	24	535
186	Carbon Nanotube Aerogels. <i>Advanced Materials</i> , 2007 , 19, 661-664	24	454
185	Premelting at defects within bulk colloidal crystals. <i>Science</i> , 2005 , 309, 1207-10	33.3	389
184	Brownian motion of an ellipsoid. <i>Science</i> , 2006 , 314, 626-30	33.3	360
183	Scattering and Imaging with Diffusing Temporal Field Correlations. <i>Physical Review Letters</i> , 1995 , 75, 1855-1858	7.4	352
182	Entropic Attraction and Repulsion in Binary Colloids Probed with a Line Optical Tweezer. <i>Physical Review Letters</i> , 1999 , 82, 4352-4355	7.4	335
181	Spatially varying dynamical properties of turbid media probed with diffusing temporal light correlation. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 1997 , 14, 192	1.8	330
180	Thermal conductivity and interfacial resistance in single-wall carbon nanotube epoxy composites. <i>Applied Physics Letters</i> , 2005 , 87, 161909	3.4	316
179	Diffuse optical tomography of cerebral blood flow, oxygenation, and metabolism in rat during focal ischemia. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2003 , 23, 911-24	7.3	305
178	Capillary interactions between anisotropic colloidal particles. <i>Physical Review Letters</i> , 2005 , 94, 018301	7.4	287
177	Distinct structural and mechanical properties of the nuclear lamina in Hutchinson-Gilford progeria syndrome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 10271-10276	11.5	287
176	Three-dimensional in vivo fluorescence diffuse optical tomography of breast cancer in humans. <i>Optics Express</i> , 2007 , 15, 6696-716	3.3	278

175	Diffuse correlation spectroscopy for non-invasive, micro-vascular cerebral blood flow measurement. <i>NeuroImage</i> , 2014 , 85 Pt 1, 51-63	7.9	255
174	Rheology of Soft Materials. <i>Annual Review of Condensed Matter Physics</i> , 2010 , 1, 301-322	19.7	246
173	Entropically driven colloidal crystallization on patterned surfaces. <i>Physical Review Letters</i> , 2000 , 85, 1770-3	7.4	242
172	MRI-guided diffuse optical spectroscopy of malignant and benign breast lesions. <i>Neoplasia</i> , 2002 , 4, 347-54	6.4	241
171	Assessing the future of diffuse optical imaging technologies for breast cancer management. <i>Medical Physics</i> , 2008 , 35, 2443-51	4.4	232
170	Diffuse optical measurement of blood flow, blood oxygenation, and metabolism in a human brain during sensorimotor cortex activation. <i>Optics Letters</i> , 2004 , 29, 1766-8	3	225
169	Thermal vestige of the zero-temperature jamming transition. <i>Nature</i> , 2009 , 459, 230-3	50.4	219
168	Two-step nucleation mechanism in solid-solid phase transitions. <i>Nature Materials</i> , 2015 , 14, 101-8	27	215
167	Entropically driven surface phase separation in binary colloidal mixtures. <i>Physical Review Letters</i> , 1994 , 72, 582-585	7.4	212
166	In vivo cerebrovascular measurement combining diffuse near-infrared absorption and correlation spectroscopies. <i>Physics in Medicine and Biology</i> , 2001 , 46, 2053-65	3.8	209
165	Entropic Colloidal Interactions in Concentrated DNA Solutions. <i>Physical Review Letters</i> , 1998 , 81, 4004-4007	40.7	201
164	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, 173-80	3.3	200
163	Phase diagrams of nearly-hard-sphere binary colloids. <i>Physical Review E</i> , 1995 , 52, 4045-4057	2.4	200
162	Diffuse optical tomography of breast cancer during neoadjuvant chemotherapy: a case study with comparison to MRI. <i>Medical Physics</i> , 2005 , 32, 1128-39	4.4	199
161	In vivo continuous-wave optical breast imaging enhanced with Indocyanine Green. <i>Medical Physics</i> , 2003 , 30, 1039-47	4.4	191
160	Entropic control of particle motion using passive surface microstructures. <i>Nature</i> , 1996 , 383, 239-242	50.4	178
159	Noninvasive monitoring of murine tumor blood flow during and after photodynamic therapy provides early assessment of therapeutic efficacy. <i>Clinical Cancer Research</i> , 2005 , 11, 3543-52	12.9	173
158	Viscoelasticity of single wall carbon nanotube suspensions. <i>Physical Review Letters</i> , 2004 , 93, 168102	7.4	164

157	Time-dependent blood flow and oxygenation in human skeletal muscles measured with noninvasive near-infrared diffuse optical spectroscopies. <i>Journal of Biomedical Optics</i> , 2005 , 10, 024027	3-5	156
156	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	3-5	151
155	Validation of diffuse correlation spectroscopy for muscle blood flow with concurrent arterial spin labeled perfusion MRI. <i>Optics Express</i> , 2007 , 15, 1064-75	3-3	150
154	Microfluidic rheology of soft colloids above and below jamming. <i>Physical Review Letters</i> , 2010 , 105, 175701	7-1	149
153	Diffuse optical correlation tomography of cerebral blood flow during cortical spreading depression in rat brain. <i>Optics Express</i> , 2006 , 14, 1125-44	3-3	145
152	Structure-property relationships from universal signatures of plasticity in disordered solids. <i>Science</i> , 2017 , 358, 1033-1037	3-3	144
151	Low-frequency vibrations of soft colloidal glasses. <i>Physical Review Letters</i> , 2010 , 105, 025501	7-4	132
150	Diffuse optical monitoring of hemodynamic changes in piglet brain with closed head injury. <i>Journal of Biomedical Optics</i> , 2009 , 14, 034015	3-5	128
149	Diffuse optical monitoring of blood flow and oxygenation in human breast cancer during early stages of neoadjuvant chemotherapy. <i>Journal of Biomedical Optics</i> , 2007 , 12, 051903	3-5	125
148	Cerebral oxygen metabolism in neonates with congenital heart disease quantified by MRI and optics. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2014 , 34, 380-8	7-3	124
147	Cerebral hemodynamics in preterm infants during positional intervention measured with diffuse correlation spectroscopy and transcranial Doppler ultrasound. <i>Optics Express</i> , 2009 , 17, 12571-81	3-3	123
146	Optical measurement of cerebral hemodynamics and oxygen metabolism in neonates with congenital heart defects. <i>Journal of Biomedical Optics</i> , 2010 , 15, 037004	3-5	118
145	Hard Spheres in Vesicles: Curvature-Induced Forces and Particle-Induced Curvature. <i>Physical Review Letters</i> , 1998 , 80, 409-412	7-4	117
144	Modified Beer-Lambert law for blood flow. <i>Biomedical Optics Express</i> , 2014 , 5, 4053-75	3-5	115
143	Direct measurement of tissue blood flow and metabolism with diffuse optics. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2011 , 369, 4390-406	3	115
142	Diffuse correlation spectroscopy for measurement of cerebral blood flow: future prospects. <i>Neurophotonics</i> , 2014 , 1,	3-9	113
141	Transcranial optical monitoring of cerebrovascular hemodynamics in acute stroke patients. <i>Optics Express</i> , 2009 , 17, 3884-902	3-3	113
140	Effects of particle shape on growth dynamics at edges of evaporating drops of colloidal suspensions. <i>Physical Review Letters</i> , 2013 , 110, 035501	7-4	107

139	Structure of semidilute single-wall carbon nanotube suspensions and gels. <i>Nano Letters</i> , 2006 , 6, 313-7	11.5	106
138	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> , 2014 , 111, 1742-7	11.5	104
137	Physics in ordered and disordered colloidal matter composed of poly(N-isopropylacrylamide) microgel particles. <i>Reports on Progress in Physics</i> , 2014 , 77, 056601	14.4	104
136	Non-affine deformations in polymer hydrogels. <i>Soft Matter</i> , 2012 , 8, 8039-8049	3.6	104
135	Cooperative rearrangement regions and dynamical heterogeneities in colloidal glasses with attractive versus repulsive interactions. <i>Physical Review Letters</i> , 2011 , 107, 208303	7.4	96
134	Colloidal interactions in suspensions of rods. <i>Physical Review Letters</i> , 2001 , 87, 088301	7.4	94
133	Entropically driven self-assembly and interaction in suspension. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2001 , 359, 921-937	3	90
132	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> , 2006 , 11, 064021	3.5	85
131	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	11.5	84
130	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	7.4	84
129	Real-time in situ monitoring of human prostate photodynamic therapy with diffuse light. <i>Photochemistry and Photobiology</i> , 2006 , 82, 1279-84	3.6	84
128	Attractions between Hard Colloidal Spheres in Semiflexible Polymer Solutions. <i>Macromolecules</i> , 2000 , 33, 177-186	5.5	82
127	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> , 2014 , 148, 2181-8	1.5	80
126	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	9.3	78
125	Predicting Responses to Neoadjuvant Chemotherapy in Breast Cancer: ACRIN 6691 Trial of Diffuse Optical Spectroscopic Imaging. <i>Cancer Research</i> , 2016 , 76, 5933-5944	10.1	73
124	Diagnosing hyperuniformity in two-dimensional, disordered, jammed packings of soft spheres. <i>Physical Review E</i> , 2015 , 91, 012302	2.4	66
123	Nonaffine Displacements in Flexible Polymer Networks. <i>Macromolecules</i> , 2011 , 44, 1671-1679	5.5	66
122	Chiral structures and defects of lyotropic chromonic liquid crystals induced by saddle-splay elasticity. <i>Physical Review E</i> , 2015 , 91, 050501	2.4	63

121	An integrated approach to measuring tumor oxygen status using human melanoma xenografts as a model. <i>Cancer Research</i> , 2003 , 63, 7232-40	10.1	62
120	Observation of the disorder-induced crystal-to-glass transition. <i>Physical Review Letters</i> , 2010 , 104, 015701	7.4	61
119	Fluid-solid transitions on walls in binary hard-sphere mixtures. <i>Europhysics Letters</i> , 1997 , 40, 337-342	1.6	61
118	Magnetic resonance images of coarsening inside a foam. <i>Physical Review Letters</i> , 1995 , 75, 573-576	7.4	60
117	Optical bedside monitoring of cerebral blood flow in acute ischemic stroke patients during head-of-bed manipulation. <i>Stroke</i> , 2014 , 45, 1269-74	6.7	56
116	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	3.5	55
115	Fast blood flow monitoring in deep tissues with real-time software correlators. <i>Biomedical Optics Express</i> , 2016 , 7, 776-97	3.5	53
114	Rheology of soft colloids across the onset of rigidity: scaling behavior, thermal, and non-thermal responses. <i>Soft Matter</i> , 2014 , 10, 3027-35	3.6	52
113	The effects of healthy aging on cerebral hemodynamic responses to posture change. <i>Physiological Measurement</i> , 2010 , 31, 477-95	2.9	50
112	Two-dimensional freezing criteria for crystallizing colloidal monolayers. <i>Journal of Chemical Physics</i> , 2010 , 132, 154501	3.9	48
111	Hemodynamic responses to antivasular therapy and ionizing radiation assessed by diffuse optical spectroscopies. <i>Optics Express</i> , 2007 , 15, 15507-16	3.3	48
110	Deposition and drying dynamics of liquid crystal droplets. <i>Nature Communications</i> , 2017 , 8, 15642	17.4	47
109	Template-directed convective assembly of three-dimensional face-centered-cubic colloidal crystals. <i>Applied Physics Letters</i> , 2002 , 81, 3176-3178	3.4	45
108	Early postoperative changes in cerebral oxygen metabolism following neonatal cardiac surgery: effects of surgical duration. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2013 , 145, 196-203, 205.e1; discussion 203-5	1.5	43
107	Pressure modulation algorithm to separate cerebral hemodynamic signals from extracerebral artifacts. <i>Neurophotonics</i> , 2015 , 2, 035004	3.9	43
106	Phonons in two-dimensional soft colloidal crystals. <i>Physical Review E</i> , 2013 , 88, 022315	2.4	43
105	Continuous optical monitoring of cerebral hemodynamics during head-of-bed manipulation in brain-injured adults. <i>Neurocritical Care</i> , 2014 , 20, 443-53	3.3	42
104	Non-invasive assessment of tumor neovasculature: techniques and clinical applications. <i>Cancer and Metastasis Reviews</i> , 2008 , 27, 615-30	9.6	42

103	Liquid crystal Janus emulsion droplets: preparation, tumbling, and swimming. <i>Soft Matter</i> , 2015 , 11, 6743-6754	4.0	40
102	Hemodynamic and metabolic diffuse optical monitoring in a mouse model of hindlimb ischemia. <i>Biomedical Optics Express</i> , 2010 , 1, 1173-1187	3.5	39
101	Influence of probe pressure on the diffuse correlation spectroscopy blood flow signal: extra-cerebral contributions. <i>Biomedical Optics Express</i> , 2013 , 4, 978-94	3.5	38
100	Comparison between isotropic and nonisotropic dosimetry systems during intraperitoneal photodynamic therapy. <i>Lasers in Surgery and Medicine</i> , 2000 , 26, 292-301	3.6	38
99	Regional Imager for Low-Resolution Functional Imaging of the Brain with Diffusing Near-Infrared Light. <i>Photochemistry and Photobiology</i> , 1998 , 67, 33-40	3.6	37
98	HIF modulation of Wnt signaling regulates skeletal myogenesis in vivo. <i>Development (Cambridge)</i> , 2015 , 142, 2405-12	6.6	36
97	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	3.7	33
96	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	1.5	33
95	Diffusive and martensitic nucleation kinetics in solid-solid transitions of colloidal crystals. <i>Nature Communications</i> , 2017 , 8, 14978	17.4	32
94	Noninvasive continuous optical monitoring of absolute cerebral blood flow in critically ill adults. <i>Neurophotonics</i> , 2018 , 5, 045006	3.9	32
93	Intraoperative near-infrared fluorescence imaging and spectroscopy identifies residual tumor cells in wounds. <i>Journal of Biomedical Optics</i> , 2015 , 20, 76002	3.5	31
92	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	7.3	31
91	Optically measured microvascular blood flow contrast of malignant breast tumors. <i>PLoS ONE</i> , 2014 , 9, e99683	3.7	30
90	Heterogeneous Activation, Local Structure, and Softness in Supercooled Colloidal Liquids. <i>Physical Review Letters</i> , 2019 , 122, 028001	7.4	30
89	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	7.3	29
88	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, 45003	3.5	26
87	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	3.5	25
86	Optical monitoring and detection of spinal cord ischemia. <i>PLoS ONE</i> , 2013 , 8, e83370	3.7	25

85	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> , 2019 , 39, 1469-1485	7.3	24
84	Optical malignancy parameters for monitoring progression of breast cancer neoadjuvant chemotherapy. <i>Biomedical Optics Express</i> , 2013 , 4, 105-21	3.5	23
83	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	7.3	23
82	Cerebral Blood Flow Response to Hypercapnia in Children with Obstructive Sleep Apnea Syndrome. <i>Sleep</i> , 2016 , 39, 209-16	1.1	21
81	Detection of Brain Hypoxia Based on Noninvasive Optical Monitoring of Cerebral Blood Flow with Diffuse Correlation Spectroscopy. <i>Neurocritical Care</i> , 2019 , 30, 72-80	3.3	21
80	Phonon dispersion and elastic moduli of two-dimensional disordered colloidal packings of soft particles with frictional interactions. <i>Physical Review E</i> , 2014 , 89, 012301	2.4	21
79	Noninvasive optical quantification of cerebral venous oxygen saturation in humans. <i>Academic Radiology</i> , 2014 , 21, 162-7	4.3	21
78	Continuous cerebral hemodynamic measurement during deep hypothermic circulatory arrest. <i>Biomedical Optics Express</i> , 2016 , 7, 3461-3470	3.5	20
77	Blood flow reduction in breast tissue due to mammographic compression. <i>Academic Radiology</i> , 2014 , 21, 151-61	4.3	19
76	Diffuse optical characterization of an exercising patient group with peripheral artery disease. <i>Journal of Biomedical Optics</i> , 2013 , 18, 57007	3.5	19
75	Molecular heterogeneity drives reconfigurable nematic liquid crystal drops. <i>Nature</i> , 2019 , 576, 433-436	50.4	19
74	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	7.3	19
73	Fluorescence-guided surgery and intervention - An AAPM emerging technology blue paper. <i>Medical Physics</i> , 2018 , 45, 2681-2688	4.4	18
72	Measuring the Nonuniform Evaporation Dynamics of Sprayed Sessile Microdroplets with Quantitative Phase Imaging. <i>Langmuir</i> , 2015 , 31, 11020-32	4	18
71	Tissue oxygen saturation predicts response to breast cancer neoadjuvant chemotherapy within 10 days of treatment. <i>Journal of Biomedical Optics</i> , 2018 , 24, 1-11	3.5	18
70	Temperature-Sensitive Hydrogel-Particle Films from Evaporating Drops. <i>Advanced Materials Interfaces</i> , 2015 , 2, 1500371	4.6	17
69	Particle dynamics in colloidal suspensions above and below the glass-liquid re-entrance transition. <i>Europhysics Letters</i> , 2009 , 86, 58001	1.6	17
68	Sodium bicarbonate causes dose-dependent increases in cerebral blood flow in infants and children with single-ventricle physiology. <i>Pediatric Research</i> , 2013 , 73, 668-73	3.2	16

67	Near-field diffraction tomography with diffuse photon density waves. <i>Physical Review E</i> , 2000 , 61, 4295-309		16
66	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, 1-11	3.5	16
65	Functional near-infrared spectroscopy for speech protocols: characterization of motion artifacts and guidelines for improving data analysis. <i>Neurophotonics</i> , 2020 , 7, 015001	3.9	16
64	Fiber-optic Monitoring of Spinal Cord Hemodynamics in Experimental Aortic Occlusion. <i>Anesthesiology</i> , 2015 , 123, 1362-73	4.3	15
63	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	3.5	15
62	Heterodyne frequency-domain multispectral diffuse optical tomography of breast cancer in the parallel-plane transmission geometry. <i>Medical Physics</i> , 2016 , 43, 4383	4.4	15
61	Performance assessment of diffuse optical spectroscopic imaging instruments in a 2-year multicenter breast cancer trial. <i>Journal of Biomedical Optics</i> , 2017 , 22, 121604	3.5	14
60	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	7.3	14
59	Coffee rings and coffee disks: Physics on the edge. <i>Physics Today</i> , 2013 , 66, 60-61	0.9	13
58	Macroscopic optical physiological parameters correlate with microscopic proliferation and vessel area breast cancer signatures. <i>Breast Cancer Research</i> , 2015 , 17, 72	8.3	13
57	Transcranial Optical Monitoring of Cerebral Hemodynamics in Acute Stroke Patients during Mechanical Thrombectomy. <i>Journal of Stroke and Cerebrovascular Diseases</i> , 2019 , 28, 1483-1494	2.8	12
56	Tunable capillary-induced attraction between vertical cylinders. <i>Langmuir</i> , 2015 , 31, 2421-9	4	12
55	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 , 4, 361-372	1.2	12
54	Noninvasive optical measurement of microvascular cerebral hemodynamics and autoregulation in the neonatal ECMO patient. <i>Pediatric Research</i> , 2020 , 88, 925-933	3.2	11
53	Tunable depletion potentials driven by shape variation of surfactant micelles. <i>Physical Review E</i> , 2016 , 93, 050601	2.4	11
52	Stimuli-Responsive Shape Switching of Polymer Colloids by Temperature-Sensitive Absorption of Solvent. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 9952-5	16.4	11
51	Phonons in two-dimensional colloidal crystals with bond-strength disorder. <i>Physical Review E</i> , 2013 , 87, 052301	2.4	11
50	Yunker et al. reply. <i>Physical Review Letters</i> , 2013 , 111, 209602	7.4	11

49	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	2.4	10
48	Laser safety in fiber-optic monitoring of spinal cord hemodynamics: a preclinical evaluation. <i>Journal of Biomedical Optics</i> , 2018 , 23, 1-9	3.5	9
47	Dynamics of ordered colloidal particle monolayers at nematic liquid crystal interfaces. <i>Soft Matter</i> , 2016 , 12, 4715-24	3.6	8
46	Brownian Dynamics of Particles "Dressed" by Chiral Director Configurations in Lyotropic Chromonic Liquid Crystals. <i>Physical Review Letters</i> , 2018 , 121, 177801	7.4	8
45	Cerebral Blood Flow Response During Bolus Normal Saline Infusion After Ischemic Stroke. <i>Journal of Stroke and Cerebrovascular Diseases</i> , 2019 , 28, 104294	2.8	7
44	Buckled colloidal monolayers connect geometric frustration in soft and hard matter. <i>Soft Matter</i> , 2013 , 9, 6565	3.6	7
43	Non-Invasive Respiratory Impedance Enhances Cerebral Perfusion in Healthy Adults. <i>Frontiers in Neurology</i> , 2017 , 8, 45	4.1	7
42	Brain segmentation, spatial censoring, and averaging techniques for optical functional connectivity imaging in mice. <i>Biomedical Optics Express</i> , 2019 , 10, 5952-5973	3.5	7
41	Reactive Oxygen Species Explicit Dosimetry for Photofrin-mediated Pleural Photodynamic Therapy. <i>Photochemistry and Photobiology</i> , 2020 , 96, 340-348	3.6	7
40	Correlated rearrangements of disordered colloidal suspensions in the vicinity of the reentrant glass transition. <i>Europhysics Letters</i> , 2016 , 115, 68003	1.6	7
39	Excess entropy and long-time diffusion in colloidal fluids with short-range interparticle attraction. <i>Journal of Chemical Physics</i> , 2019 , 150, 144907	3.9	6
38	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	3.6	6
37	Vibrational properties of quasi-two-dimensional colloidal glasses with varying interparticle attraction. <i>Physical Review E</i> , 2016 , 94, 042606	2.4	6
36	Relationship between neighbor number and vibrational spectra in disordered colloidal clusters with attractive interactions. <i>Journal of Chemical Physics</i> , 2013 , 138, 12A525	3.9	6
35	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		6
34	Correlations between short- and long-time relaxation in colloidal supercooled liquids and glasses. <i>Physical Review E</i> , 2019 , 100, 020603	2.4	5
33	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> , 2020 , 117, 11887-11893	11.5	5
32	Stimuli-Responsive Shape Switching of Polymer Colloids by Temperature-Sensitive Absorption of Solvent. <i>Angewandte Chemie</i> , 2016 , 128, 10106-10109	3.6	5

31	Diffuse optical tomography in the presence of a chest wall. <i>Journal of Biomedical Optics</i> , 2013 , 18, 260163.5	5
30	Strain fluctuations and elastic moduli in disordered solids. <i>Physical Review E</i> , 2015 , 92, 022307	2.4 5
29	Melting and Geometric Frustration in Temperature-Sensitive Colloids 2011 , 229-281	5
28	Regional Imager for Low-Resolution Functional Imaging of the Brain with Diffusing Near-Infrared Light 1998 , 67, 33	5
27	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	6.3 4
26	Perfusion Enhancement with Respiratory Impedance After Stroke (PERI-Stroke). <i>Neurotherapeutics</i> , 2019 , 16, 1296-1303	6.4 3
25	Multi-Site Optical Monitoring of Spinal Cord Ischemia during Spine Distraction. <i>Journal of Neurotrauma</i> , 2020 , 37, 2014-2022	5.4 3
24	Wavelength censoring for spectroscopy in optical functional neuroimaging. <i>Physics in Medicine and Biology</i> , 2021 , 66, 065026	3.8 3
23	Optical Detection of Intracranial Pressure and Perfusion Changes in Neonates With Hydrocephalus. <i>Journal of Pediatrics</i> , 2021 , 236, 54-61.e1	3.6 3
22	Dynamic Heterogeneities in Colloidal Supercooled Liquids: Experimental Tests of Inhomogeneous Mode Coupling Theory. <i>Journal of Physical Chemistry B</i> , 2019 , 123, 5181-5188	3.4 2
21	Blood Flow Measurements Enable Optimization of Light Delivery for Personalized Photodynamic Therapy. <i>Cancers</i> , 2020 , 12,	6.6 2
20	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	3.1 2
19	Towards rapid intraoperative axial localization of spinal cord ischemia with epidural diffuse correlation monitoring. <i>PLoS ONE</i> , 2021 , 16, e0251271	3.7 2
18	Non-invasive diffuse optical neuromonitoring during cardiopulmonary resuscitation predicts return of spontaneous circulation. <i>Scientific Reports</i> , 2021 , 11, 3828	4.9 2
17	Breast cancer differential diagnosis using diffuse optical spectroscopic imaging and regression with z-score normalized data. <i>Journal of Biomedical Optics</i> , 2021 , 26,	3.5 2
16	Relationships between structure, memory and flow in sheared disordered materials. <i>Nature Physics</i> ,	16.2 2
15	Britton Chance 1913-2010. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2011 , 369, 4380-4389	3 1
14	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> , 2009 , 2009, 1991-3	0.9 1

13	Cerebral Autoregulation Dynamics with High-Speed Diffuse Correlation Spectroscopy 2016 ,		1
12	Asymmetric, dynamic adaptation in prefrontal cortex during dichotic listening tasks. <i>Neurophotonics</i> , 2020 , 7, 045008	3.9	1
11	Single Wall Carbon Nanotube Aerogels 2006 ,		1
10	Shear-assisted grain coarsening in colloidal polycrystals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 24055-24060	11.5	1
9	Comparison between isotropic and nonisotropic dosimetry systems during intraperitoneal photodynamic therapy 2000 , 26, 292		1
8	Giant director fluctuations in liquid crystal drops.. <i>Physical Review E</i> , 2022 , 105, 044702	2.4	1
7	Theory of director fluctuations about a hedgehog defect in a nematic drop.. <i>Physical Review E</i> , 2022 , 105, 044703	2.4	1
6	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	3.9	0
5	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> , 2014 , 45, e190	6.7	
4	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> , 2008 , 2008, 1	0.9	
3	Diffuse optical measurement of cerebral metabolic rate of oxygen in adult brain. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2005 , 25, S412-S412	7.3	
2	Development of diffuse correlation techniques for non-invasive measurement of cerebral blood flow and oxygen metabolism in rats. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2005 , 25, S413-S413 ^{7.3}		
1	Special Section Guest Editorial: Celebration of the Britton Chance Legacy. <i>Journal of Biomedical Optics</i> , 2019 , 24, 1-2	3.5	