

# Arjun G Yodh

## List of Publications by Year in descending order

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203  
papers

23,240  
citations

10389  
72  
h-index

7950  
149  
g-index

209  
all docs

209  
docs citations

209  
times ranked

18899  
citing authors

#	ARTICLE	IF	CITATIONS
1	High Weight Fraction Surfactant Solubilization of Single-Wall Carbon Nanotubes in Water. Nano Letters, 2003, 3, 269-273.	9.1	1,728
2	Suppression of the coffee-ring effect by shape-dependent capillary interactions. Nature, 2011, 476, 308-311.	27.8	1,288
3	Diffuse optics for tissue monitoring and tomography. Reports on Progress in Physics, 2010, 73, 076701.	20.1	905
4	Spectroscopy and Imaging with Diffusing Light. Physics Today, 1995, 48, 34-40.	0.3	835
5	Concurrent MRI and diffuse optical tomography of breast after indocyanine green enhancement. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 2767-2772.	7.1	790
6	Very Low Conductivity Threshold in Bulk Isotropic Single-Walled Carbon Nanotube-Epoxy Composites. Advanced Materials, 2005, 17, 1186-1191.	21.0	567
7	Carbon Nanotube Aerogels. Advanced Materials, 2007, 19, 661-664.	21.0	518
8	Spatially varying dynamical properties of turbid media probed with diffusing temporal light correlation. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1997, 14, 192.	1.5	476
9	Scattering and Imaging with Diffusing Temporal Field Correlations. Physical Review Letters, 1995, 75, 1855-1858.	7.8	455
10	Premelting at Defects Within Bulk Colloidal Crystals. Science, 2005, 309, 1207-1210.	12.6	435
11	Brownian Motion of an Ellipsoid. Science, 2006, 314, 626-630.	12.6	421
12	Diffuse correlation spectroscopy for non-invasive, micro-vascular cerebral blood flow measurement. NeuroImage, 2014, 85, 51-63.	4.2	405
13	Diffuse Optical Tomography of Cerebral Blood Flow, Oxygenation, and Metabolism in Rat during Focal Ischemia. Journal of Cerebral Blood Flow and Metabolism, 2003, 23, 911-924.	4.3	381
14	Thermal conductivity and interfacial resistance in single-wall carbon nanotube epoxy composites. Applied Physics Letters, 2005, 87, 161909.	3.3	360
15	Entropic Attraction and Repulsion in Binary Colloids Probed with a Line Optical Tweezer. Physical Review Letters, 1999, 82, 4352-4355.	7.8	359
16	Three-dimensional in vivo fluorescence diffuse optical tomography of breast cancer in humans. Optics Express, 2007, 15, 6696.	3.4	357
17	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.	7.1	333
18	Capillary Interactions Between Anisotropic Colloidal Particles. Physical Review Letters, 2005, 94, 018301.	7.8	326

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19	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.	3.3	311
20	Rheology of Soft Materials. <i>Annual Review of Condensed Matter Physics</i> , 2010, 1, 301-322.	14.5	305
21	MRI-Guided Diffuse Optical Spectroscopy of Malignant and Benign Breast Lesions. <i>Neoplasia</i> , 2002, 4, 347-354.	5.3	290
22	Assessing the future of diffuse optical imaging technologies for breast cancer management. <i>Medical Physics</i> , 2008, 35, 2443-2451.	3.0	289
23	In vivocerebrovascular measurement combining diffuse near-infrared absorption and correlation spectroscopies. <i>Physics in Medicine and Biology</i> , 2001, 46, 2053-2065.	3.0	278
24	Entropically Driven Colloidal Crystallization on Patterned Surfaces. <i>Physical Review Letters</i> , 2000, 85, 1770-1773.	7.8	268
25	Diffuse optical tomography of breast cancer during neoadjuvant chemotherapy: A case study with comparison to MRI. <i>Medical Physics</i> , 2005, 32, 1128-1139.	3.0	261
26	Two-step nucleation mechanism in solid–solid phase transitions. <i>Nature Materials</i> , 2015, 14, 101-108.	27.5	256
27	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.	2.4	255
28	Thermal vestige of the zero-temperature jamming transition. <i>Nature</i> , 2009, 459, 230-233.	27.8	232
29	<i>In vivo</i> continuous-wave optical breast imaging enhanced with Indocyanine Green. <i>Medical Physics</i> , 2003, 30, 1039-1047.	3.0	230
30	Entropically Driven Surface Phase Separation in Binary Colloidal Mixtures. <i>Physical Review Letters</i> , 1994, 72, 582-585.	7.8	227
31	Phase diagrams of nearly-hard-sphere binary colloids. <i>Physical Review E</i> , 1995, 52, 4045-4057.	2.1	218
32	Structure-property relationships from universal signatures of plasticity in disordered solids. <i>Science</i> , 2017, 358, 1033-1037.	12.6	218
33	Entropic Colloidal Interactions in Concentrated DNA Solutions. <i>Physical Review Letters</i> , 1998, 81, 4004-4007.	7.8	213
34	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, 3543-3552.	7.0	213
35	Entropic control of particle motion using passive surface microstructures. <i>Nature</i> , 1996, 383, 239-242.	27.8	202
36	Validation of diffuse correlation spectroscopy for muscle blood flow with concurrent arterial spin labeled perfusion MRI. <i>Optics Express</i> , 2007, 15, 1064.	3.4	198

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37	Diffuse optical correlation tomography of cerebral blood flow during cortical spreading depression in rat brain. <i>Optics Express</i> , 2006, 14, 1125.	3.4	197
38	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.	2.6	192
39	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.	2.6	189
40	Modified Beer-Lambert law for blood flow. <i>Biomedical Optics Express</i> , 2014, 5, 4053.	2.9	186
41	Viscoelasticity of Single Wall Carbon Nanotube Suspensions. <i>Physical Review Letters</i> , 2004, 93, 168102.	7.8	179
42	Diffuse correlation spectroscopy for measurement of cerebral blood flow: future prospects. <i>Neurophotonics</i> , 2014, 1, 011009.	3.3	176
43	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.	2.6	169
44	Diffuse optical monitoring of hemodynamic changes in piglet brain with closed head injury. <i>Journal of Biomedical Optics</i> , 2009, 14, 034015.	2.6	162
45	Microfluidic Rheology of Soft Colloids above and below Jamming. <i>Physical Review Letters</i> , 2010, 105, 175701.	7.8	162
46	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, 380-388.	4.3	161
47	Cerebral hemodynamics in preterm infants during positional intervention measured with diffuse correlation spectroscopy and transcranial Doppler ultrasound. <i>Optics Express</i> , 2009, 17, 12571.	3.4	159
48	Optical measurement of cerebral hemodynamics and oxygen metabolism in neonates with congenital heart defects. <i>Journal of Biomedical Optics</i> , 2010, 15, 037004.	2.6	157
49	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.	3.4	151
50	Transcranial optical monitoring of cerebrovascular hemodynamics in acute stroke patients. <i>Optics Express</i> , 2009, 17, 3884.	3.4	149
51	Low-Frequency Vibrations of Soft Colloidal Glasses. <i>Physical Review Letters</i> , 2010, 105, 025501.	7.8	147
52	Hard Spheres in Vesicles: Curvature-Induced Forces and Particle-Induced Curvature. <i>Physical Review Letters</i> , 1998, 80, 409-412.	7.8	130
53	Effects of Particle Shape on Growth Dynamics at Edges of Evaporating Drops of Colloidal Suspensions. <i>Physical Review Letters</i> , 2013, 110, 035501.	7.8	127
54	Non-affine deformations in polymer hydrogels. <i>Soft Matter</i> , 2012, 8, 8039.	2.7	123

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55	Physics in ordered and disordered colloidal matter composed of poly( <i>N</i> -isopropylacrylamide) microgel particles. Reports on Progress in Physics, 2014, 77, 056601.	20.1	123
56	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.	7.1	117
57	Structure of Semidilute Single-Wall Carbon Nanotube Suspensions and Gels. Nano Letters, 2006, 6, 313-317.	9.1	116
58	Cooperative Rearrangement Regions and Dynamical Heterogeneities in Colloidal Glasses with Attractive Versus Repulsive Interactions. Physical Review Letters, 2011, 107, 208303.	7.8	114
59	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.	2.6	112
60	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.	0.8	112
61	Predicting Responses to Neoadjuvant Chemotherapy in Breast Cancer: ACRIN 6691 Trial of Diffuse Optical Spectroscopic Imaging. Cancer Research, 2016, 76, 5933-5944.	0.9	105
62	Real-time In Situ Monitoring of Human Prostate Photodynamic Therapy with Diffuse Light. Photochemistry and Photobiology, 2006, 82, 1279.	2.5	102
63	Entropically driven self-assembly and interaction in suspension. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2001, 359, 921-937.	3.4	98
64	Measurement of Correlations between Low-Frequency Vibrational Modes and Particle Rearrangements in Quasi-Two-Dimensional Colloidal Glasses. Physical Review Letters, 2011, 107, 108301.	7.8	98
65	Colloidal Interactions in Suspensions of Rods. Physical Review Letters, 2001, 87, 088301.	7.8	96
66	Chiral structures from achiral liquid crystals in cylindrical capillaries. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E1837-44.	7.1	96
67	Synthesis of micrometer-size poly( <i>N</i> -isopropylacrylamide) microgel particles with homogeneous crosslinker density and diameter control. Journal of Colloid and Interface Science, 2013, 405, 96-102.	9.4	95
68	Attractions between Hard Colloidal Spheres in Semiflexible Polymer Solutions. Macromolecules, 2000, 33, 177-186.	4.8	93
69	Fast blood flow monitoring in deep tissues with real-time software correlators. Biomedical Optics Express, 2016, 7, 776.	2.9	93
70	Chiral structures and defects of lyotropic chromonic liquid crystals induced by saddle-splay elasticity. Physical Review E, 2015, 91, 050501.	2.1	81
71	Diagnosing hyperuniformity in two-dimensional, disordered, jammed packings of soft spheres. Physical Review E, 2015, 91, 012302.	2.1	81
72	Optical Bedside Monitoring of Cerebral Blood Flow in Acute Ischemic Stroke Patients During Head-of-Bed Manipulation. Stroke, 2014, 45, 1269-1274.	2.0	78

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73	Nonaffine Displacements in Flexible Polymer Networks. <i>Macromolecules</i> , 2011, 44, 1671-1679.	4.8	77
74	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.	2.6	77
75	Magnetic Resonance Images of Coarsening Inside a Foam. <i>Physical Review Letters</i> , 1995, 75, 573-576.	7.8	71
76	Fluid-solid transitions on walls in binary hard-sphere mixtures. <i>Europhysics Letters</i> , 1997, 40, 337-342.	2.0	70
77	Pressure modulation algorithm to separate cerebral hemodynamic signals from extracerebral artifacts. <i>Neurophotonics</i> , 2015, 2, 035004.	3.3	70
78	Observation of the Disorder-Induced Crystal-to-Glass Transition. <i>Physical Review Letters</i> , 2010, 104, 015701.	7.8	69
79	An integrated approach to measuring tumor oxygen status using human melanoma xenografts as a model. <i>Cancer Research</i> , 2003, 63, 7232-40.	0.9	67
80	Deposition and drying dynamics of liquid crystal droplets. <i>Nature Communications</i> , 2017, 8, 15642.	12.8	66
81	Two-dimensional freezing criteria for crystallizing colloidal monolayers. <i>Journal of Chemical Physics</i> , 2010, 132, 154501.	3.0	61
82	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.	0.8	61
83	The effects of healthy aging on cerebral hemodynamic responses to posture change. <i>Physiological Measurement</i> , 2010, 31, 477-495.	2.1	60
84	HIF modulation of Wnt signaling regulates skeletal myogenesis <i>in vivo</i> . <i>Development (Cambridge)</i> , 2015, 142, 2405-12.	2.5	60
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.	4.3	60
86	Regional Imager for Low-Resolution Functional Imaging of the Brain with Diffusing Near-Infrared Light. <i>Photochemistry and Photobiology</i> , 1998, 67, 33-40.	2.5	59
87	Rheology of soft colloids across the onset of rigidity: scaling behavior, thermal, and non-thermal responses. <i>Soft Matter</i> , 2014, 10, 3027.	2.7	57
88	Continuous Optical Monitoring of Cerebral Hemodynamics During Head-of-Bed Manipulation in Brain-Injured Adults. <i>Neurocritical Care</i> , 2014, 20, 443-453.	2.4	56
89	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, 196-205.e1.	0.8	55
90	Template-directed convective assembly of three-dimensional face-centered-cubic colloidal crystals. <i>Applied Physics Letters</i> , 2002, 81, 3176-3178.	3.3	53

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91	Liquid crystal Janus emulsion droplets: preparation, tumbling, and swimming. <i>Soft Matter</i> , 2015, 11, 6747-6754.	2.7	52
92	Hemodynamic responses to antivasular therapy and ionizing radiation assessed by diffuse optical spectroscopies. <i>Optics Express</i> , 2007, 15, 15507.	3.4	51
93	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.	4.3	51
94	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.	2.5	51
95	Influence of probe pressure on the diffuse correlation spectroscopy blood flow signal: extra-cerebral contributions. <i>Biomedical Optics Express</i> , 2013, 4, 978.	2.9	50
96	Phonons in two-dimensional soft colloidal crystals. <i>Physical Review E</i> , 2013, 88, 022315.	2.1	47
97	Non-invasive assessment of tumor neovasculature: techniques and clinical applications. <i>Cancer and Metastasis Reviews</i> , 2008, 27, 615-630.	5.9	46
98	Comparison between isotropic and nonisotropic dosimetry systems during intraperitoneal photodynamic therapy. , 2000, 26, 292-301.		45
99	Diffusive and martensitic nucleation kinetics in solid-solid transitions of colloidal crystals. <i>Nature Communications</i> , 2017, 8, 14978.	12.8	45
100	Hemodynamic and metabolic diffuse optical monitoring in a mouse model of hindlimb ischemia. <i>Biomedical Optics Express</i> , 2010, 1, 1173.	2.9	43
101	Noninvasive continuous optical monitoring of absolute cerebral blood flow in critically ill adults. <i>Neurophotonics</i> , 2018, 5, 1.	3.3	42
102	Molecular heterogeneity drives reconfigurable nematic liquid crystal drops. <i>Nature</i> , 2019, 576, 433-436.	27.8	41
103	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.	2.6	41
104	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.	2.6	40
105	Heterogeneous Activation, Local Structure, and Softness in Supercooled Colloidal Liquids. <i>Physical Review Letters</i> , 2019, 122, 028001.	7.8	40
106	Optically Measured Microvascular Blood Flow Contrast of Malignant Breast Tumors. <i>PLoS ONE</i> , 2014, 9, e99683.	2.5	39
107	Intraoperative near-infrared fluorescence imaging and spectroscopy identifies residual tumor cells in wounds. <i>Journal of Biomedical Optics</i> , 2015, 20, 076002.	2.6	39
108	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.	2.4	39

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109	Quantification of cerebral blood flow in adults by contrast-enhanced near-infrared spectroscopy: Validation against MRI. Journal of Cerebral Blood Flow and Metabolism, 2020, 40, 1672-1684.	4.3	38
110	Neurovascular Coupling Varies with Level of Global Cerebral Ischemia in a Rat Model. Journal of Cerebral Blood Flow and Metabolism, 2013, 33, 97-105.	4.3	37
111	Blood flow and oxygenation changes due to low-frequency repetitive transcranial magnetic stimulation of the cerebral cortex. Journal of Biomedical Optics, 2013, 18, 067006.	2.6	36
112	Dynamic autoregulation of cerebral blood flow measured non-invasively with fast diffuse correlation spectroscopy. Journal of Cerebral Blood Flow and Metabolism, 2018, 38, 230-240.	4.3	36
113	Tissue oxygen saturation predicts response to breast cancer neoadjuvant chemotherapy within 10 days of treatment. Journal of Biomedical Optics, 2018, 24, 1.	2.6	32
114	Optical Monitoring and Detection of Spinal Cord Ischemia. PLoS ONE, 2013, 8, e83370.	2.5	32
115	Continuous cerebral hemodynamic measurement during deep hypothermic circulatory arrest. Biomedical Optics Express, 2016, 7, 3461.	2.9	30
116	Non-invasive optical neuromonitoring of the temperature-dependence of cerebral oxygen metabolism during deep hypothermic cardiopulmonary bypass in neonatal swine. Journal of Cerebral Blood Flow and Metabolism, 2020, 40, 187-203.	4.3	30
117	Functional near-infrared spectroscopy for speech protocols: characterization of motion artifacts and guidelines for improving data analysis. Neurophotonics, 2020, 7, 1.	3.3	30
118	Fluorescence-guided surgery and intervention – An AAPM emerging technology blue paper. Medical Physics, 2018, 45, 2681-2688.	3.0	29
119	Diffuse optical characterization of an exercising patient group with peripheral artery disease. Journal of Biomedical Optics, 2013, 18, 057007.	2.6	27
120	Noninvasive Optical Quantification of Cerebral Venous Oxygen Saturation in Humans. Academic Radiology, 2014, 21, 162-167.	2.5	27
121	Cerebral Blood Flow Response to Hypercapnia in Children with Obstructive Sleep Apnea Syndrome. Sleep, 2016, 39, 209-216.	1.1	26
122	Hybrid time-domain and continuous-wave diffuse optical tomography instrument with concurrent, clinical magnetic resonance imaging for breast cancer imaging. Journal of Biomedical Optics, 2019, 24, 1.	2.6	26
123	Optical malignancy parameters for monitoring progression of breast cancer neoadjuvant chemotherapy. Biomedical Optics Express, 2013, 4, 105.	2.9	25
124	Phonon dispersion and elastic moduli of two-dimensional disordered colloidal packings of soft particles with frictional interactions. Physical Review E, 2014, 89, 012301.	2.1	23
125	Blood Flow Reduction in Breast Tissue due to Mammographic Compression. Academic Radiology, 2014, 21, 151-161.	2.5	23
126	Transcranial Optical Monitoring of Cerebral Hemodynamics in Acute Stroke Patients during Mechanical Thrombectomy. Journal of Stroke and Cerebrovascular Diseases, 2019, 28, 1483-1494.	1.6	23



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127	Noninvasive optical measurement of microvascular cerebral hemodynamics and autoregulation in the neonatal ECMO patient. <i>Pediatric Research</i> , 2020, 88, 925-933.	2.3	23
128	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.	2.6	21
129	Heterodyne frequency-domain multispectral diffuse optical tomography of breast cancer in the parallel-plane transmission geometry. <i>Medical Physics</i> , 2016, 43, 4383-4395.	3.0	21
130	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.	2.3	20
131	Temperature-sensitive Hydrogel-Particle Films from Evaporating Drops. <i>Advanced Materials Interfaces</i> , 2015, 2, 1500371.	3.7	20
132	Measuring the Nonuniform Evaporation Dynamics of Sprayed Sessile Microdroplets with Quantitative Phase Imaging. <i>Langmuir</i> , 2015, 31, 11020-11032.	3.5	20
133	Near-field diffraction tomography with diffuse photon density waves. <i>Physical Review E</i> , 2000, 61, 4295-4309.	2.1	19
134	Macroscopic optical physiological parameters correlate with microscopic proliferation and vessel area breast cancer signatures. <i>Breast Cancer Research</i> , 2015, 17, 72.	5.0	18
135	Fiber-optic Monitoring of Spinal Cord Hemodynamics in Experimental Aortic Occlusion. <i>Anesthesiology</i> , 2015, 123, 1362-1373.	2.5	18
136	Tunable Capillary-Induced Attraction between Vertical Cylinders. <i>Langmuir</i> , 2015, 31, 2421-2429.	3.5	18
137	Particle dynamics in colloidal suspensions above and below the glass-liquid re-entrance transition. <i>Europhysics Letters</i> , 2009, 86, 58001.	2.0	17
138	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.	1.0	17
139	Tunable depletion potentials driven by shape variation of surfactant micelles. <i>Physical Review E</i> , 2016, 93, 050601.	2.1	16
140	Coffee rings and coffee disks: Physics on the edge. <i>Physics Today</i> , 2013, 66, 60-61.	0.3	15
141	Phonons in two-dimensional colloidal crystals with bond-strength disorder. <i>Physical Review E</i> , 2013, 87, 052301.	2.1	15
142	Reactive Oxygen Species Explicit Dosimetry for Photofrin-mediated Pleural Photodynamic Therapy. <i>Photochemistry and Photobiology</i> , 2020, 96, 340-348.	2.5	15
143	Optical Detection of Intracranial Pressure and Perfusion Changes in Neonates With Hydrocephalus. <i>Journal of Pediatrics</i> , 2021, 236, 54-61.e1.	1.8	15
144	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.	7.1	14

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145	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.	3.6	14
146	Stimuli-Responsive Shape Switching of Polymer Colloids by Temperature-Sensitive Absorption of Solvent. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 9952-9955.	13.8	13
147	Brain segmentation, spatial censoring, and averaging techniques for optical functional connectivity imaging in mice. <i>Biomedical Optics Express</i> , 2019, 10, 5952.	2.9	13
148	Yunker et al. Reply: Physical Review Letters, 2013, 111, 209602.	7.8	12
149	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.	2.1	12
150	Laser safety in fiber-optic monitoring of spinal cord hemodynamics: a preclinical evaluation. <i>Journal of Biomedical Optics</i> , 2018, 23, 1.	2.6	11
151	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.	2.7	10
152	Brownian Dynamics of Particles "Dressed" by Chiral Director Configurations in Lyotropic Chromonic Liquid Crystals. <i>Physical Review Letters</i> , 2018, 121, 177801.	7.8	10
153	Buckled colloidal monolayers connect geometric frustration in soft and hard matter. <i>Soft Matter</i> , 2013, 9, 6565.	2.7	9
154	Non-invasive diffuse optical neuromonitoring during cardiopulmonary resuscitation predicts return of spontaneous circulation. <i>Scientific Reports</i> , 2021, 11, 3828.	3.3	9
155	Dynamics of ordered colloidal particle monolayers at nematic liquid crystal interfaces. <i>Soft Matter</i> , 2016, 12, 4715-4724.	2.7	8
156	Non-Invasive Respiratory Impedance Enhances Cerebral Perfusion in Healthy Adults. <i>Frontiers in Neurology</i> , 2017, 8, 45.	2.4	8
157	Cerebral Blood Flow Response During Bolus Normal Saline Infusion After Ischemic Stroke. <i>Journal of Stroke and Cerebrovascular Diseases</i> , 2019, 28, 104294.	1.6	8
158	Excess entropy and long-time diffusion in colloidal fluids with short-range interparticle attraction. <i>Journal of Chemical Physics</i> , 2019, 150, 144907.	3.0	8
159	Blood Flow Measurements Enable Optimization of Light Delivery for Personalized Photodynamic Therapy. <i>Cancers</i> , 2020, 12, 1584.	3.7	8
160	Wavelength censoring for spectroscopy in optical functional neuroimaging. <i>Physics in Medicine and Biology</i> , 2021, 66, 065026.	3.0	8
161	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
162	Relationships between structure, memory and flow in sheared disordered materials. <i>Nature Physics</i> , 2022, 18, 565-570.	16.7	8

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163	Focal conic flowers, dislocation rings, and undulation textures in smectic liquid crystal Janus droplets. <i>Soft Matter</i> , 2022, 18, 4360-4371.	2.7	8
164	Correlated rearrangements of disordered colloidal suspensions in the vicinity of the reentrant glass transition. <i>Europhysics Letters</i> , 2016, 115, 68003.	2.0	7
165	Vibrational properties of quasi-two-dimensional colloidal glasses with varying interparticle attraction. <i>Physical Review E</i> , 2016, 94, 042606.	2.1	7
166	Correlations between short- and long-time relaxation in colloidal supercooled liquids and glasses. <i>Physical Review E</i> , 2019, 100, 020603.	2.1	7
167	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.	7.1	7
168	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.	0.6	7
169	Diffuse optical tomography in the presence of a chest wall. <i>Journal of Biomedical Optics</i> , 2013, 18, 026016.	2.6	6
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