

Linda S Hirst

List of Publications by Year in descending order

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Version: 2024-02-01

92
papers

1,536
citations

318942

23
h-index

388640

36
g-index

96
all docs

96
docs citations

96
times ranked

1981
citing authors

#	ARTICLE	IF	CITATIONS
1	Methods to control chaotic active nematic flow. <i>Biophysical Journal</i> , 2022, 121, 112a-113a.	0.2	0
2	Using Curved Fluid Boundaries to Confine Active Nematic Flows. <i>Frontiers in Physics</i> , 2022, 10, .	1.0	2
3	Fractal generation in a two-dimensional active-nematic fluid. <i>Chaos</i> , 2021, 31, 073125.	1.0	5
4	10.1063/5.0050795.1. , 2021, , .		0
5	Colloidal structure and proton conductivity of the gel within the electrosensory organs of cartilaginous fishes. <i>IScience</i> , 2021, 24, 102947.	1.9	2
6	Submersed micropatterned structures control active nematic flow, topology, and concentration. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	33
7	Colloidal aggregation in anisotropic liquid crystal solvent. <i>Soft Matter</i> , 2021, 17, 7532-7540.	1.2	5
8	Directional, Low-Energy Driven Thermal Actuating Bilayer Enabled by Coordinated Submolecular Switching. <i>Advanced Science</i> , 2021, 8, e2102077.	5.6	8
9	Active nematic order and dynamic lane formation of microtubules driven by membrane-bound diffusing motors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	9
10	Evidence of chitin in the ampullae of Lorenzini of chondrichthyan fishes. <i>Current Biology</i> , 2020, 30, R1254-R1255.	1.8	9
11	Topological chaos in active nematics. <i>Nature Physics</i> , 2019, 15, 1033-1039.	6.5	53
12	Membrane mediated motor kinetics in microtubule gliding assays. <i>Scientific Reports</i> , 2019, 9, 9584.	1.6	7
13	Directed assembly of magnetic and semiconducting nanoparticles with tunable and synergistic functionality. <i>Scientific Reports</i> , 2019, 9, 15784.	1.6	2
14	New Promesogenic Ligands for Host Medium Microencapsulation by Quantum Dots via Liquid Crystal Phase Transition Templating. <i>ACS Applied Nano Materials</i> , 2019, 2, 2542-2547.	2.4	5
15	Nanoparticle-based hollow microstructures formed by two-stage nematic nucleation and phase separation. <i>Nature Communications</i> , 2019, 10, 894.	5.8	23
16	Using epoxy-based lithography to probe confinement effects on active nematics. , 2019, , .		1
17	Modeling deformation and chaining of flexible shells in a nematic solvent with finite elements on an adaptive moving mesh. <i>Physical Review E</i> , 2018, 97, 032701.	0.8	2
18	Investigating Quality of Mixing of a Biological Active Nematic. <i>Biophysical Journal</i> , 2018, 114, 650a.	0.2	1

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19	Phase Transition-Driven Nanoparticle Assembly in Liquid Crystal Droplets. <i>Nanomaterials</i> , 2018, 8, 146.	1.9	10
20	Substrate Mobility Produces Velocity Time Dependence in Microtubule Gliding. <i>Biophysical Journal</i> , 2018, 114, 647a.	0.2	0
21	Free-energy model for nanoparticle self-assembly by liquid crystal sorting. <i>Physical Review E</i> , 2018, 97, 062704.	0.8	11
22	Nanoparticle microstructures templated by liquid crystal phase-transition dynamics. <i>Proceedings of SPIE</i> , 2017, , .	0.8	3
23	Liquid crystals in living tissue. <i>Nature</i> , 2017, 544, 164-165.	13.7	18
24	Plasmon-actuated nano-assembled microshells. <i>Scientific Reports</i> , 2017, 7, 17788.	1.6	10
25	A Simple Experimental Model to Investigate Force Range for Membrane Nanotube Formation. <i>Frontiers in Materials</i> , 2016, 3, .	1.2	6
26	Effect of Active Kinesin Motor Density on Microtubules During Self-Assembly of Spools. <i>Biophysical Journal</i> , 2016, 110, 131a.	0.2	0
27	Understanding the role of transport velocity in biomotor-powered microtubule spool assembly. <i>RSC Advances</i> , 2016, 6, 79143-79146.	1.7	3
28	Effect of mesogenic ligands on short and long-term spectral dynamics and stability of core-shell CdSe/ZnS quantum dots. <i>Materials Research Express</i> , 2016, 3, 105029.	0.8	4
29	Effects of Membrane Mobility on Microtubule Gliding. <i>Biophysical Journal</i> , 2016, 110, 423a.	0.2	0
30	Cathy Berberian: Pioneer of Contemporary Vocality edited by Pamela Karantonis, Francesca Placanica, Anne Sivuoja-Kauppalaa and Pieter Verstraete. Ashgate, 2014. £65.00. <i>Tempo</i> , 2015, 69, 51-53.	0.3	0
31	Stability and instability for low refractive-index-contrast particle trapping in a dual-beam optical trap. <i>Biomedical Optics Express</i> , 2015, 6, 3812.	1.5	2
32	Quantum Dot/Liquid Crystal Nanocomposites in Photonic Devices. <i>Photonics</i> , 2015, 2, 855-864.	0.9	25
33	Effects of Low Concentrations of Docosahexaenoic Acid on the Structure and Phase Behavior of Model Lipid Membranes. <i>Membranes</i> , 2015, 5, 857-874.	1.4	6
34	Self-assembled nanoparticle micro-shells templated by liquid crystal sorting. <i>Soft Matter</i> , 2015, 11, 1701-1707.	1.2	29
35	All-optical switching of nematic liquid crystal films driven by localized surface plasmons. <i>Optics Express</i> , 2015, 23, 6888.	1.7	12
36	Optical switching of nematic liquid crystal film arising from induced electric field of localized surface plasmon resonance. <i>Proceedings of SPIE</i> , 2015, , .	0.8	2

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37	Magnetic field induced quantum dot brightening in liquid crystal synergized magnetic and semiconducting nanoparticle composite assemblies. <i>Soft Matter</i> , 2015, 11, 255-260.	1.2	11
38	Designing highly tunable semiflexible filament networks. <i>Physical Review E</i> , 2014, 89, 062602.	0.8	7
39	An Analytic Toolbox for Simulated Filament Networks. <i>Materials Research Society Symposia Proceedings</i> , 2014, 1688, 35.	0.1	0
40	Tuning Quantum Dot Organization in Liquid Crystals for Robust Photonic Applications. <i>ChemPhysChem</i> , 2014, 15, 1413-1421.	1.0	50
41	Docosahexaenoic Acid Affects Gel Phase by Increasing Tilt Angle. <i>Biophysical Journal</i> , 2014, 106, 508a.	0.2	0
42	Dye-integrated cholesteric photonic luminescent solar concentrator. <i>Liquid Crystals</i> , 2014, 41, 1442-1447.	0.9	12
43	Designing Highly Tunable Semiflexible Filament Networks. <i>Biophysical Journal</i> , 2014, 106, 422a.	0.2	0
44	Quantum dot/liquid crystal composite materials: self-assembly driven by liquid crystal phase transition templating. <i>Journal of Materials Chemistry C</i> , 2013, 1, 5527.	2.7	73
45	Morphology Transition in Lipid Vesicles: Interaction of In-Plane Order and Topological Defects. <i>Biophysical Journal</i> , 2013, 104, 83a.	0.2	1
46	Fiber-optic trap-on-a-chip platform for probing low refractive index contrast biomaterials. <i>Applied Optics</i> , 2013, 52, 2340.	0.9	4
47	Morphology transition in lipid vesicles due to in-plane order and topological defects. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 3242-3247.	3.3	43
48	Stability of Dual-Beam Fiber-Optical Traps for Low Refractive Index Contrast Particles. , 2013, , .		0
49	Directed assembly and in situ manipulation of semiconductor quantum dots in liquid crystal matrices. , 2012, , .		12
50	Dynamics of spontaneous emission of quantum dots in a one-dimensional cholesteric liquid crystal photonic cavity. <i>RSC Advances</i> , 2012, 2, 12759.	1.7	22
51	Spectral and polarization modulation of quantum dot emission in a one-dimensional liquid crystal photonic cavity. <i>Physical Review B</i> , 2012, 85, .	1.1	44
52	AFM Determination of the Elasticity of Model Biomembranes. <i>Biophysical Journal</i> , 2012, 102, 294a.	0.2	0
53	Optical Trapping and Stretching of Lipid Vesicles. , 2012, , .		0
54	Phase separation and critical phenomena in biomimetic ternary lipid mixtures. <i>Liquid Crystals</i> , 2011, 38, 1735-1747.	0.9	23

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55	Steric stabilisation of the ferroelectric intermediate liquid crystal phase by dopant-induced conformational change. <i>Liquid Crystals</i> , 2011, 38, 255-261.	0.9	0
56	Fiber-Based Dual-Beam Optical Trapping System for Studying Lipid Vesicle Mechanics. , 2011, , .		0
57	Optical design and efficiency improvement for organic luminescent solar concentrators. <i>Proceedings of SPIE</i> , 2011, , .	0.8	5
58	Functionalized SnO ₂ nanobelt field-effect transistor sensors for label-free detection of cardiac troponin. <i>Biosensors and Bioelectronics</i> , 2011, 26, 4538-4544.	5.3	74
59	Polymorphism of highly cross-linked F-actin networks: Probing multiple length scales. <i>Physical Review E</i> , 2011, 83, 031910.	0.8	12
60	Stereological analysis of bacterial load and lung lesions in nonhuman primates (rhesus macaques) experimentally infected with <i>Mycobacterium tuberculosis</i> . <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2011, 301, L731-L738.	1.3	36
61	Supramolecular honeycomb and columnar assemblies formed by self-assembly of coil-rod-coil molecules with a conjugated rod segment. <i>Macromolecular Research</i> , 2010, 18, 800-805.	1.0	13
62	Quantum dot self-assembly in liquid crystal media. <i>Proceedings of SPIE</i> , 2010, , .	0.8	28
63	Hierarchical Crosslinked F Actin Networks: Understanding Structure and Assembly. <i>Biophysical Journal</i> , 2010, 98, 18a.	0.2	0
64	Modification of the electro-optical properties of the B1 liquid-crystal phase using a rodlike liquid-crystal dopant. <i>Physical Review E</i> , 2010, 82, 031701.	0.8	3
65	Synthesis and self-assembly of coil-rod-coil molecules with lateral methyl and ethyl groups in the center of the rod segment. <i>Soft Matter</i> , 2010, 6, 5993.	1.2	28
66	Electrical modulation of static and dynamic spectroscopic properties of coupled nanoscale GaSe quantum dot assemblies. <i>Physical Review B</i> , 2010, 82, .	1.1	16
67	Solution synchrotron x-ray diffraction reveals structural details of lipid domains in ternary mixtures. <i>Physical Review E</i> , 2009, 79, 031924.	0.8	18
68	Molecular Dynamics Simulation Reveals The Role Of Cross-linkers In Semi-flexible Filament Assembly. <i>Biophysical Journal</i> , 2009, 96, 126a.	0.2	1
69	Light Induced Liquid Crystalline Phases in the Lipid Bilayer. <i>Molecular Crystals and Liquid Crystals</i> , 2009, 508, 67/[429]-76/[438].	0.4	3
70	Molecular dynamics simulation of F-actin reveals the role of cross-linkers in semi-flexible filament assembly. <i>Soft Matter</i> , 2009, 5, 2033.	1.2	14
71	The effects of fluorescent probes on model membrane organization: photo-induced lipid sorting and soft structure formation. <i>Liquid Crystals</i> , 2009, 36, 739-745.	0.9	6
72	Lipid Bilayer Discs and Banded Tubules: Photoinduced Lipid Sorting in Ternary Mixtures. <i>Journal of the American Chemical Society</i> , 2008, 130, 2067-2072.	6.6	40

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73	Low electric-field-induced switching in the B1 bent-core liquid crystal phase. Applied Physics Letters, 2007, 90, 161905.	1.5	11
74	Investigation into liquid crystalline smectic-C*subphase stability using chiral and achiral dopants. Physical Review E, 2007, 76, 051704.	0.8	6
75	Cationic Lipid Absorption on Titanium: A Counterion-Mediated Bilayer-to-Lipid-Tubule-Network Transition. Langmuir, 2007, 23, 7462-7465.	1.6	12
76	Remarkably wide four-layer smectic phases in mixtures of liquid crystals and highly chiral dopants. Journal of Materials Chemistry, 2006, 16, 3753.	6.7	32
77	Resonant X-ray Scattering: A Tool for Structure Elucidation in Liquid Crystals. ChemPhysChem, 2006, 7, 321-328.	1.0	37
78	Biaxiality and temperature dependence of 3- and 4-layer intermediate smectic-phase structures as revealed by resonant X-ray scattering. Europhysics Letters, 2005, 72, 976-982.	0.7	33
79	Hierarchical self-assembly of actin bundle networks: Gels with surface protein skin layers. Journal of Chemical Physics, 2005, 123, 104902.	1.2	22
80	Microchannel Systems in Titanium and Silicon for Structural and Mechanical Studies of Aligned Protein Self-Assemblies. Langmuir, 2005, 21, 3910-3914.	1.6	20
81	Alignment of filamentous proteins and associated molecules through confinement in microchannels. Applied Physics Letters, 2004, 85, 5775-5777.	1.5	10
82	Skin Layer at the Actin-Gel Surface: Quenched Protein Membranes form Flat, Crumpled, and Tubular Morphologies. Physical Review Letters, 2004, 93, 018101.	2.9	11
83	Structure of Actin Cross-Linked with β -Actinin: A Network of Bundles. Physical Review Letters, 2003, 91, 148102.	2.9	103
84	Interlayer structures of the chiral smectic liquid crystal phases revealed by resonant x-ray scattering. Physical Review E, 2002, 65, 041705.	0.8	93
85	Influence of electric fields on the smectic layer structure of ferroelectric and antiferroelectric liquid crystal devices. Physical Review E, 2002, 65, 031705.	0.8	16
86	Orientational ordering in the chiral smectic-CF12*liquid crystal phase determined by resonant polarized x-ray diffraction. Physical Review E, 2001, 64, 050702.	0.8	85
87	Resonant x-ray scattering study of the antiferroelectric and ferroelectric phases in liquid crystal devices. Physical Review E, 2001, 64, 021705.	0.8	52
88	Electric field-induced layer deformations in the subphases of an antiferroelectric liquid crystal device. Applied Physics Letters, 2000, 77, 340-342.	1.5	25
89	Resonant x-ray scattering at the Se edge in liquid crystal free-standing films and devices. Applied Physics Letters, 2000, 76, 1863-1865.	1.5	39
90	Liquid crystal composites as a route to 3D nanoparticle assembly. SPIE Newsroom, 0, , .	0.1	4

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91	Fundamentals of Soft Matter Science. , 0, , .		12
92	Fundamentals of Soft Matter Science. , 0, , .		4