Hari Krishna Bisoyi

List of Publications by Year
in descending order

102	8,202	41344	48315
papers	citations	49 h-index	88 g-index

110	110	110	5194
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Visible Lightâ€Driven Molecular Switches and Motors: Recent Developments and Applications. Chemistry - A European Journal, 2022, 28, .	3.3	48
2	An Artificial Lightâ€Harvesting System with Controllable Efficiency Enabled by an Annuleneâ€Based Anisotropic Fluid. Angewandte Chemie - International Edition, 2022, 61, .	13.8	27
3	An Artificial Lightâ€Harvesting System with Controllable Efficiency Enabled by an Annuleneâ€Based Anisotropic Fluid. Angewandte Chemie, 2022, 134, .	2.0	9
4	Frontispiece: Thermoâ€•and Mechanochromic Camouflage and Selfâ€Healing in Biomimetic Soft Actuators Based on Liquid Crystal Elastomers. Angewandte Chemie - International Edition, 2022, 61, .	13.8	1
5	Frontispiz: Thermoâ€•and Mechanochromic Camouflage and Selfâ€Healing in Biomimetic Soft Actuators Based on Liquid Crystal Elastomers. Angewandte Chemie, 2022, 134, .	2.0	0
6	An ultrahigh fatigue resistant liquid crystal elastomer-based material enabled by liquid metal. Science China Materials, 2022, 65, 1679-1686.	6.3	6
7	Frontispiece: Visible Lightâ€Driven Molecular Switches and Motors: Recent Developments and Applications. Chemistry - A European Journal, 2022, 28, .	3.3	1
8	Bioinspired Phototropic MXeneâ€Reinforced Soft Tubular Actuators for Omnidirectional Lightâ€Tracking and Adaptive Photovoltaics. Advanced Functional Materials, 2022, 32, .	14.9	127
9	Frontispiz: An Artificial Lightâ€Harvesting System with Controllable Efficiency Enabled by an Annuleneâ€Based Anisotropic Fluid. Angewandte Chemie, 2022, 134, .	2.0	1
10	Frontispiece: An Artificial Lightâ€Harvesting System with Controllable Efficiency Enabled by an Annuleneâ€Based Anisotropic Fluid. Angewandte Chemie - International Edition, 2022, 61, .	13.8	5
11	Thermoâ€•and Mechanochromic Camouflage and Selfâ€Healing in Biomimetic Soft Actuators Based on Liquid Crystal Elastomers. Angewandte Chemie, 2022, 134, .	2.0	5
12	Thermoâ€•and Mechanochromic Camouflage and Selfâ€Healing in Biomimetic Soft Actuators Based on Liquid Crystal Elastomers. Angewandte Chemie - International Edition, 2022, 61, e202115755.	13.8	90
13	Liquid Crystals: Versatile Self-Organized Smart Soft Materials. Chemical Reviews, 2022, 122, 4887-4926.	47.7	288
14	Synchronous Imaging in Golgi Apparatus and Lysosome Enabled by Amphiphilic Calixarene-Based Artificial Light-Harvesting Systems. ACS Applied Materials & Interfaces, 2022, 14, 22443-22453.	8.0	20
15	Light-activated photodeformable supramolecular dissipative self-assemblies. Nature Communications, 2022, 13, .	12.8	43
16	Nearâ€Infrared Lightâ€Driven Shapeâ€Morphing of Programmable Anisotropic Hydrogels Enabled by MXene Nanosheets. Angewandte Chemie - International Edition, 2021, 60, 3390-3396.	13.8	213
17	Nearâ€Infrared Lightâ€Driven Shapeâ€Morphing of Programmable Anisotropic Hydrogels Enabled by MXene Nanosheets. Angewandte Chemie, 2021, 133, 3432-3438.	2.0	20
18	Stimulus-driven liquid metal and liquid crystal network actuators for programmable soft robotics. Materials Horizons, 2021, 8, 2475-2484.	12.2	142

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19	Frontispiece: Nearâ€Infrared Lightâ€Driven Shapeâ€Morphing of Programmable Anisotropic Hydrogels Enabled by MXene Nanosheets. Angewandte Chemie - International Edition, 2021, 60, .	13.8	0
20	Frontispiz: Nearâ€Infrared Lightâ€Driven Shapeâ€Morphing of Programmable Anisotropic Hydrogels Enabled by MXene Nanosheets. Angewandte Chemie, 2021, 133, .	2.0	0
21	Liquid Crystals in Curved Confined Geometries: Microfluidics Bring New Capabilities for Photonic Applications and Beyond. Langmuir, 2021, 37, 3789-3807.	3.5	55
22	Unexpected organic hydrate luminogens in the solid state. Nature Communications, 2021, 12, 2339.	12.8	15
23	Bioinspired Synergistic Photochromic Luminescence and Programmable Liquid Crystal Actuators. Angewandte Chemie, 2021, 133, 11347-11351.	2.0	28
24	Bioinspired Synergistic Photochromic Luminescence and Programmable Liquid Crystal Actuators. Angewandte Chemie - International Edition, 2021, 60, 11247-11251.	13.8	125
25	Healable and Rearrangeable Networks of Liquid Crystal Elastomers Enabled by Diselenide Bonds. Angewandte Chemie, 2021, 133, 16530-16534.	2.0	16
26	Healable and Rearrangeable Networks of Liquid Crystal Elastomers Enabled by Diselenide Bonds. Angewandte Chemie - International Edition, 2021, 60, 16394-16398.	13.8	92
27	Covalent Adaptable Liquid Crystal Networks Enabled by Reversible Ring-Opening Cascades of Cyclic Disulfides. Journal of the American Chemical Society, 2021, 143, 12543-12551.	13.7	101
28	Light-fueled transient supramolecular assemblies in water as fluorescence modulators. Nature Communications, 2021, 12, 4993.	12.8	56
29	Irradiationâ€Wavelength Directing Circularly Polarized Luminescence in Selfâ€Organized Helical Superstructures Enabled by Hydrogenâ€Bonded Chiral Fluorescent Molecular Switches. Angewandte Chemie - International Edition, 2021, 60, 27158-27163.	13.8	66
30	Stimuliâ€Driven Insulatorâ€“Conductor Transition in a Flexible Polymer Composite Enabled by Biphasic Liquid Metal. Advanced Materials, 2021, 33, e2104634.	21.0	43
31	A Liquid Crystal Elastomerâ€Based Unprecedented Twoâ€Way Shapeâ€Memory Aerogel. Advanced Science, 2021, 8, e2102674.	11.2	27
32	Combined electric and photocontrol of selective light reflection at an oblique helicoidal cholesteric liquid crystal doped with azoxybenzene derivative. Physical Review E, 2021, 104, 044702.	2.1	13
33	A Liquid Crystal Elastomerâ€Based Unprecedented Twoâ€Way Shapeâ€Memory Aerogel (Adv. Sci. 22/2021). Advanced Science, 2021, 8, 2170151.	11.2	2
34	InnenrÃ¼cktitelbild: Irradiationâ€Wavelength Directing Circularly Polarized Luminescence in Selfâ€Organized Helical Superstructures Enabled by Hydrogenâ€Bonded Chiral Fluorescent Molecular Switches (Angew. Chem. 52/2021). Angewandte Chemie, 2021, 133, 27539-27539.	2.0	0
35	Visibleâ€Lightâ€Driven Halogen Bond Donor Based Molecular Switches: From Reversible Unwinding to Handedness Inversion in Selfâ€Organized Soft Helical Superstructures. Angewandte Chemie, 2020, 132, 2706-2709.	2.0	25
36	Visibleâ€Lightâ€Driven Halogen Bond Donor Based Molecular Switches: From Reversible Unwinding to Handedness Inversion in Selfâ€Organized Soft Helical Superstructures. Angewandte Chemie - International Edition, 2020, 59, 2684-2687.	13.8	69

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37	Organicâ€“inorganic hybrid liquid crystals of azopyridine-enabled halogen-bonding towards sensing in aquatic environment. RSC Advances, 2020, 10, 35873-35877.	3.6	8
38	Electro- and Photo-Driven Orthogonal Switching of a Helical Superstructure Enabled by an Axially Chiral Molecular Switch. ACS Applied Materials & Interfaces, 2020, 12, 55215-55222.	8.0	14
39	Annular Structural Colors from Bowlâ€Like Shriveled Photonic Microshells of Cholesteric Liquid Crystals. Advanced Optical Materials, 2020, 8, 2000692.	7.3	26
40	Solvent polarity driven helicity inversion and circularly polarized luminescence in chiral aggregation induced emission fluorophores. Chemical Science, 2020, 11, 9989-9993.	7.4	81
41	Reversible Onâ€“Off of Chirality and Anisotropy in Patterned Coexistence of Achiralâ€Anisotropic and Chiralâ€Isotropic Soft Materials. Advanced Optical Materials, 2020, 8, 2000155.	7.3	16
42	An Efficient Nearâ€Infrared Emissive Artificial Supramolecular Lightâ€Harvesting System for Imaging in the Golgi Apparatus. Angewandte Chemie - International Edition, 2020, 59, 10493-10497.	13.8	116
43	An Efficient Nearâ€Infrared Emissive Artificial Supramolecular Lightâ€Harvesting System for Imaging in the Golgi Apparatus. Angewandte Chemie, 2020, 132, 10579-10583.	2.0	18
44	The Halogen Bond: An Emerging Supramolecular Tool in the Design of Functional Mesomorphic Materials. Chemistry - A European Journal, 2019, 25, 1369-1378.	3.3	73
45	Visibleâ€Lightâ€Induced Selfâ€Organized Helical Superstructure in Orientationally Ordered Fluids. Advanced Materials, 2019, 31, e1902958.	21.0	30
46	Stimulated transformation of soft helix among helicoidal, heliconical, and their inverse helices. Science Advances, 2019, 5, eaax9501.	10.3	68
47	1,2â€Dithienyldicyanoetheneâ€Based, Visibleâ€Lightâ€Driven, Chiral Fluorescent Molecular Switch: Rewritable Multimodal Photonic Devices. Angewandte Chemie, 2019, 131, 16198-16202.	2.0	34
48	1,2â€Dithienyldicyanoetheneâ€Based, Visibleâ€Lightâ€Driven, Chiral Fluorescent Molecular Switch: Rewritable Multimodal Photonic Devices. Angewandte Chemie - International Edition, 2019, 58, 16052-16056.	13.8	112
49	Chiral and orientationally ordered fluid mesophases formed by oxadiazole bisaniline based achiral bent mesogens. Liquid Crystals, 2019, 46, 1373-1382.	2.2	10
50	Chirality invertible superstructure mediated active planar optics. Nature Communications, 2019, 10, 2518.	12.8	106
51	Reversible Circularly Polarized Reflection in a Self-Organized Helical Superstructure Enabled by a Visible-Light-Driven Axially Chiral Molecular Switch. Journal of the American Chemical Society, 2019, 141, 8078-8082.	13.7	74
52	Dicyanodistyrylthiopheneâ€Based Emissive Chiral Photoswitches: Effect of the Position of the Cyano Group on Reversible Photoisomerization and Fatigue Resistance. ChemPhotoChem, 2019, 3, 480-486.	3.0	18
53	Stimuli directed alignment of self-organized one-dimensional semiconducting columnar liquid crystal nanostructures for organic electronics. Progress in Materials Science, 2019, 104, 1-52.	32.8	61
54	Dynamic Control of Light Direction Enabled by Stimuliâ€Responsive Liquid Crystal Gratings. Advanced Materials, 2019, 31, e1806172.	21.0	170

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55	Optically Rewritable Transparent Liquid Crystal Displays Enabled by Lightâ€Driven Chiral Fluorescent Molecular Switches. Advanced Materials, 2019, 31, e1807751.	21.0	153
56	Lightâ€Driven Reversible Transformation between Selfâ€Organized Simple Cubic Lattice and Helical Superstructure Enabled by a Molecular Switch Functionalized Nanocage. Advanced Materials, 2018, 30, e1800237.	21.0	57
57	Photochemically and Thermally Driven Fullâ€Color Reflection in a Selfâ€Organized Helical Superstructure Enabled by a Halogenâ€Bonded Chiral Molecular Switch. Angewandte Chemie, 2018, 130, 1643-1647.	2.0	28
58	Photochemically and Thermally Driven Fullâ€Color Reflection in a Selfâ€Organized Helical Superstructure Enabled by a Halogenâ€Bonded Chiral Molecular Switch. Angewandte Chemie - International Edition, 2018, 57, 1627-1631.	13.8	131
59	Stimuliâ€Driven Control of the Helical Axis of Selfâ€Organized Soft Helical Superstructures. Advanced Materials, 2018, 30, e1706512.	21.0	205
60	Adaptive Materials: Light-Driven Reversible Transformation between Self-Organized Simple Cubic Lattice and Helical Superstructure Enabled by a Molecular Switch Functionalized Nanocage (Adv.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	21.0	
61	Soft Materials Driven by Photothermal Effect and Their Applications. Advanced Optical Materials, 2018, 6, 1800458.	7.3	120
62	Dynamic Orthogonal Switching of a Thermoresponsive Selfâ€Organized Helical Superstructure. Advanced Materials, 2017, 29, 1700676.	21.0	62
63	Controllable Dynamic Zigzag Pattern Formation in a Soft Helical Superstructure. Advanced Materials, 2017, 29, 1701903.	21.0	67
64	Stimuli-directed self-organized chiral superstructures for adaptive windows enabled by mesogen-functionalized graphene. Materials Today, 2017, 20, 230-237.	14.2	194
65	Optically reconfigurable chiral microspheres of self-organized helical superstructures with handedness inversion. Materials Horizons, 2017, 4, 1190-1195.	12.2	83
66	Lightâ€Patterned Crystallographic Direction of a Selfâ€Organized 3D Soft Photonic Crystal. Advanced Materials, 2017, 29, 1703165.	21.0	120
67	Lichtgesteuerte dynamische ChiralitÃ‌tsumkehr in funktionalen selbstorganisierten helikalen Ãœberstrukturen. Angewandte Chemie, 2016, 128, 3046-3063.	2.0	49
68	Light-Driven Liquid Crystalline Materials: From Photo-Induced Phase Transitions and Property Modulations to Applications. Chemical Reviews, 2016, 116, 15089-15166.	47.7	671
69	Photo and redox dual-stimuli-directed reversible disassembly and reassembly of linear supramolecular polymer formed by orthogonal host-guest molecular recognition. Dyes and Pigments, 2016, 132, 336-341.	3.7	14
70	Thermally reversible full color selective reflection in a self-organized helical superstructure enabled by a bent-core oligomesogen exhibiting a twist-bend nematic phase. Materials Horizons, 2016, 3, 442-446.	12.2	80
71	Frequencyâ€Driven Selfâ€Organized Helical Superstructures Loaded with Mesogenâ€Grafted Silica Nanoparticles. Angewandte Chemie, 2016, 128, 13284-13288.	2.0	24
72	Frequencyâ€Driven Selfâ€Organized Helical Superstructures Loaded with Mesogenâ€Grafted Silica Nanoparticles. Angewandte Chemie - International Edition, 2016, 55, 13090-13094.	13.8	85

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73	Lightâ€Directed Dynamic Chirality Inversion in Functional Selfâ€Organized Helical Superstructures. Angewandte Chemie - International Edition, 2016, 55, 2994-3010.	13.8	237
74	Charge transport in a liquid crystalline triphenylene polymer monolayer at airâ€“solid interface. Physical Chemistry Chemical Physics, 2016, 18, 12101-12107.	2.8	15
75	Three-dimensional control of the helical axis of a chiral nematic liquid crystal by light. Nature, 2016, 531, 352-356.	27.8	435
76	Gratings: Light-Driven Wide-Range Nonmechanical Beam Steering and Spectrum Scanning Based on a Self-Organized Liquid Crystal Grating Enabled by a Chiral Molecular Switch (Advanced Optical) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 617	7.3	0
77	Luminescenceâ€Driven Reversible Handedness Inversion of Selfâ€Organized Helical Superstructures Enabled by a Novel Nearâ€Infrared Light Nanotransducer. Advanced Materials, 2015, 27, 2065-2069.	21.0	225
78	Lightâ€Directing Omnidirectional Circularly Polarized Reflection from Liquidâ€Crystal Droplets. Angewandte Chemie - International Edition, 2015, 54, 2160-2164.	13.8	150
79	Room temperature heliconical twist-bend nematic liquid crystal. CrystEngComm, 2015, 17, 2778-2782.	2.6	135
80	Lightâ€Driven Wideâ€Range Nonmechanical Beam Steering and Spectrum Scanning Based on a Selfâ€Organized Liquid Crystal Grating Enabled by a Chiral Molecular Switch. Advanced Optical Materials, 2015, 3, 166-170.	7.3	61
81	Lightâ€Driven Reversible Alignment Switching of Liquid Crystals Enabled by Azo Thiol Grafted Gold Nanoparticles. ChemPhysChem, 2015, 16, 1852-1856.	2.1	47
82	NIR light-directing self-organized 3D photonic superstructures loaded with anisotropic plasmonic hybrid nanorods. Chemical Communications, 2015, 51, 15039-15042.	4.1	92
83	Photoresponsive Monodisperse Cholesteric Liquid Crystalline Microshells for Tunable Omnidirectional Lasing Enabled by a Visible Lightâ€Driven Chiral Molecular Switch. Advanced Optical Materials, 2014, 2, 845-848.	7.3	128
84	Microshells: Photoresponsive Monodisperse Cholesteric Liquid Crystalline Microshells for Tunable Omnidirectional Lasing Enabled by a Visible Light-Driven Chiral Molecular Switch (Advanced Optical) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	2.3	0
85	Liquid Crystalline 1D and 2D Carbon Materials. Nanoscience and Technology, 2014, , 69-99.	1.5	2
86	Light-Directing Chiral Liquid Crystal Nanostructures: From 1D to 3D. Accounts of Chemical Research, 2014, 47, 3184-3195.	15.6	357
87	Red, Green and Blue Reflections Enabled in an Optically Tunable Selfâ€Organized 3D Cubic Nanostructured Thin Film. Advanced Materials, 2013, 25, 5050-5054.	21.0	158
88	Hybrid rod-like and bent-core liquid crystal dimers exhibiting biaxial smectic A and nematic phases. Journal of Materials Chemistry, 2012, 22, 20363.	6.7	42
89	Carbon-based liquid crystals: art and science. Liquid Crystals, 2011, 38, 1427-1449.	2.2	67
90	Air stable electron-transporting and ambipolar bay substituted perylene bisimides. Journal of Materials Chemistry, 2011, 21, 7811.	6.7	56

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91	Liquid-crystal nanoscience: an emerging avenue of soft self-assembly. Chemical Society Reviews, 2011, 40, 306-319.	38.1	457
92	Discotic nematic liquid crystals: science and technology. Chemical Society Reviews, 2010, 39, 264-285.	38.1	270
93	Novel banana-discotic hybrid architectures. Beilstein Journal of Organic Chemistry, 2009, 5, 52.	2.2	9
94	Microwaveâ€assisted facile synthesis of liquid crystalline nonâ€symmetrical hexaalkoxytriphenylenes containing a branched chain and their characterization. Journal of Physical Organic Chemistry, 2008, 21, 47-52.	1.9	16
95	First examples of monodisperse discotic liquid crystal pentamers: synthesis and mesomorphism. Tetrahedron Letters, 2008, 49, 3628-3631.	1.4	26
96	Room-temperature electron-deficient discotic liquid crystals: facile synthesis and mesophase characterization. New Journal of Chemistry, 2008, 32, 1974.	2.8	21
97	Carbon nanotubes in triphenylene and rufigallol-based room temperature monomeric and polymeric discotic liquid crystals. Journal of Materials Chemistry, 2008, 18, 3032.	6.7	87
98	Synthesis of monohydroxy-functionalized triphenylene discotics: green chemistry approach. Tetrahedron, 2007, 63, 6874-6878.	1.9	18
99	Microwave-assisted synthesis of rufigallol and its novel room-temperature liquid crystalline derivatives. Tetrahedron Letters, 2007, 48, 4399-4402.	1.4	33
100	Microwave-assisted facile synthesis of liquid-crystalline alkoxycyanobiphenyls and their dimers. Phase Transitions, 2006, 79, 285-292.	1.3	11
101	Photochromic Bulk Materials. , 0, , 281-360.		2
102	Irradiationâ€Wavelength Directing Circularly Polarized Luminescence in Selfâ€Organized Helical Superstructures Enabled by Hydrogen Bonded Chiral Fluorescent Molecular Switches. Angewandte Chemie, 0, , .	2.0	6