Yonggui Liao

List of Publications by Year
in descending order

100 papers	3,123 citations	172457 29 h-index	189892 50 g-index
100 all docs	100 docs citations	100 times ranked	3784 citing authors

#	Article	IF	Citations
1	Ultralight Layerâ€byâ€Layer Selfâ€Assembled MoS₂â€Polymer Modified Separator for Simultaneously Trapping Polysulfides and Suppressing Lithium Dendrites. Advanced Energy Materials, 2018, 8, 1802430.	19.5	170
2	Mesoporous Block Copolymer Nanoparticles with Tailored Structures by Hydrogenâ€Bondingâ€Assisted Selfâ€Assembly. Advanced Materials, 2012, 24, 1889-1893.	21.0	136
3	Effect of defects on thermal conductivity of graphene/epoxy nanocomposites. Carbon, 2018, 130, 295-303.	10.3	122
4	Effect of metal nanoparticles on thermal stabilization of polymer/metal nanocomposites prepared by a one-step dry process. Polymer, 2006, 47, 7970-7979.	3.8	119
5	Monochromatic Visible Light â€œPhotoinitibitorâ€• Janus-Faced Initiation and Inhibition for Storage of Colored 3D Images. Journal of the American Chemical Society, 2014, 136, 8855-8858.	13.7	118
6	Ring-Shaped Morphology of â€œCrew-Cutâ€•Aggregates from ABA Amphiphilic Triblock Copolymer in a Dilute Solution. Langmuir, 2004, 20, 3809-3812.	3.5	112
7	Responsive Block Copolymer Photonic Microspheres. Advanced Materials, 2018, 30, e1707344.	21.0	102
8	The effect of defects on the interfacial mechanical properties of graphene/epoxy composites. RSC Advances, 2017, 7, 46101-46108.	3.6	89
9	Synthesis of Electroactive Tetraanilineâ^'PEOâ^'Tetraaniline Triblock Copolymer and Its Self-Assembled Vesicle with Acidity Response. Langmuir, 2010, 26, 9386-9392.	3.5	75
10	Multi-Responsive Lanthanide-Based Hydrogel with Encryption, Naked Eye Sensing, Shape Memory, Self-Healing, and Antibacterial Activity. ACS Applied Materials & Interfaces, 2020, 12, 28539-28549.	8.0	71
11	Photoinitiation and Inhibition under Monochromatic Green Light for Storage of Colored 3D Images in Holographic Polymer-Dispersed Liquid Crystals. ACS Applied Materials & Interfaces, 2017, 9, 1810-1819.	8.0	69
12	Gelled microporous polymer electrolyte with low liquid leakage for lithium-ion batteries. Journal of Membrane Science, 2014, 454, 298-304.	8.2	64
13	3D Image Storage in Photopolymer/ZnS Nanocomposites Tailored by â€œPhotoinitibitorâ€• Macromolecules, 2015, 48, 2958-2966.	4.8	59
14	One-Step and Metal-Free Synthesis of Triblock Quaterpolymers by Concurrent and Switchable Polymerization. ACS Macro Letters, 2020, 9, 204-209.	4.8	59
15	Effect of Defects on the Mechanical and Thermal Properties of Graphene. Nanomaterials, 2019, 9, 347.	4.1	57
16	Injectable Adhesive Hydrogel as Photothermalâ€Derived Antigen Reservoir for Enhanced Antiâ€Tumor Immunity. Advanced Functional Materials, 2021, 31, 2010587.	14.9	54
17	Lewis pair catalyzed highly selective polymerization for the one-step synthesis of A_zC_y(AB)_xC_yA_z pentablock terpolymers. Polymer Chemistry, 2020, 11, 1691-1695.	3.9	44
18	Enhanced ion transport in polymerâ€“ionic liquid electrolytes containing ionic liquid-functionalized nanostructured carbon materials. Carbon, 2015, 86, 86-97.	10.3	43

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19	Robust multi-responsive supramolecular hydrogel based on a mono-component hostâ€“guest gelator. Soft Matter, 2018, 14, 5213-5221.	2.7	43
20	Ultralow-Carbon Nanotube-Toughened Epoxy: The Critical Role of a Double-Layer Interface. ACS Applied Materials & Interfaces, 2018, 10, 1204-1216.	8.0	42
21	Water-soluble graphene grafted by poly(sodium 4-styrenesulfonate) for enhancement of electric capacitance. Nanotechnology, 2012, 23, 475704.	2.6	41
22	Precise Localization of Inorganic Nanoparticles in Block Copolymer Micellar Aggregates: From Center to Interface. Macromolecules, 2015, 48, 256-263.	4.8	39
23	Interdiffusion at Homopolymer/Random Copolymer Interfaces Investigated by Energy-Filtering Transmission Electron Microscopy. Macromolecules, 2007, 40, 7966-7972.	4.8	38
24	Giant Stability Enhancement of CsPbX₃ Nanocrystal Films by Plasma-Induced Ligand Polymerization. ACS Applied Materials & Interfaces, 2019, 11, 35270-35276.	8.0	36
25	High modulus and low-voltage driving nematic liquid-crystalline physical gels for light-scattering displays. Soft Matter, 2013, 9, 7718.	2.7	35
26	Study of Adhesion and Fracture of Polymer Laminates by Imaging of Interfaces. Macromolecular Rapid Communications, 2007, 28, 915-921.	3.9	34
27	Wholly Visible-Light-Responsive Hostâ€“Guest Supramolecular Gels Based on Methoxy Azobenzene and Î²-Cyclodextrin Dimers. Langmuir, 2020, 36, 7408-7417.	3.5	34
28	Highly thermally conductive yet mechanically robust composites with nacre-mimetic structure prepared by evaporation-induced self-assembly approach. Chemical Engineering Journal, 2021, 405, 126865.	12.7	34
29	Temperature dependence of surface composition and morphology in polymer blend film. Polymer, 2008, 49, 4456-4461.	3.8	33
30	Scalable Approach to Construct Self-Assembled Graphene-Based Films with An Ordered Structure for Thermal Management. ACS Applied Materials & Interfaces, 2018, 10, 41690-41698.	8.0	32
31	Kinetics of Surface Phase Separation for PMMA/SAN Thin Films Studied by in Situ Atomic Force Microscopy. Macromolecules, 2005, 38, 211-215.	4.8	29
32	Photomechanically Controlled Encapsulation and Release from pH-Responsive and Photoresponsive Microcapsules. Langmuir, 2015, 31, 5456-5463.	3.5	29
33	Iron-mediated AGET ATRP of methyl methacrylate in the presence of polar solvents as ligands. Journal of Polymer Science Part A, 2014, 52, 1020-1027.	2.3	28
34	Self-Assembly of Shaped Nanoparticles into Free-Standing 2D and 3D Superlattices. Small, 2016, 12, 499-505.	10.0	28
35	Well-structured holographic polymer dispersed liquid crystals by employing acrylamide and doping ZnS nanoparticles. Materials Chemistry Frontiers, 2017, 1, 294-303.	5.9	28
36	Dewetting and Phase Behaviors for Ultrathin Films of Polymer Blend. Macromolecular Rapid Communications, 2006, 27, 351-355.	3.9	27

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37	Insight into glass transition of cellulose based on direct thermal processing after plasticization by ionic liquid. Cellulose, 2015, 22, 89-99.	4.9	27
38	Synthesis of Yolkâ€“Shell Polymeric Nanocapsules Encapsulated with Monodispersed Upconversion Nanoparticle for Dual-Responsive Controlled Drug Release. Macromolecules, 2018, 51, 10074-10082.	4.8	27
39	Reversible photo-responsive gelâ€“sol transitions of robust organogels based on an azobenzene-containing main-chain liquid crystalline polymer. RSC Advances, 2020, 10, 3726-3733.	3.6	27
40	Surface phase separations of PMMA/SAN blends investigated by atomic force microscopy. Polymer, 2003, 44, 4035-4045.	3.8	26
41	Robust polyazobenzene microcapsules with photoresponsive pore channels and tunable release profiles. European Polymer Journal, 2012, 48, 41-48.	5.4	25
42	Iron-catalyzed AGET ATRP of methyl methacrylate using an alcohol as a reducing agent in a polar solvent. Dalton Transactions, 2014, 43, 16528-16533.	3.3	25
43	Liquid Crystalline Nanocolloids for the Storage of Electro-Optic Responsive Images. ACS Applied Materials & Interfaces, 2019, 11, 8612-8624.	8.0	25
44	Reaction-induced phase decomposition of thermoset/thermoplastic blends investigated by energy filtering transmission electron microscopy. Polymer, 2007, 48, 3749-3758.	3.8	24
45	Interfacial Entanglements between Glassy Polymers Investigated by Nanofractography with High-Resolution Scanning Electron Microscopy. Macromolecules, 2008, 41, 8063-8071.	4.8	24
46	Visible light-triggered gel-to-sol transition in halogen-bond-based supramolecules. Soft Matter, 2019, 15, 6411-6417.	2.7	24
47	Injectable zwitterionic thermosensitive hydrogels with low-protein adsorption and combined effect of photothermal-chemotherapy. Journal of Materials Chemistry B, 2020, 8, 10637-10649.	5.8	24
48	Film Thickness Dependence of Phase Separation and Dewetting Behaviors in PMMA/SAN Blend Films. Langmuir, 2010, 26, 14530-14534.	3.5	23
49	Composition Effect on Interplay between Phase Separation and Dewetting in PMMA/SAN Blend Ultrathin Films. Macromolecules, 2011, 44, 5318-5325.	4.8	23
50	Composition effect on dewetting of ultrathin films of miscible polymer blend. Polymer, 2009, 50, 4745-4752.	3.8	22
51	Highly diffractive, reversibly fast responsive gratings formulated through holography. RSC Advances, 2014, 4, 4420-4426.	3.6	22
52	Thermal and Photo Dual-Responsive Coreâ€“Shell Polymeric Nanocarriers with Encapsulation of Upconversion Nanoparticles for Controlled Anticancer Drug Release. Journal of Physical Chemistry C, 2019, 123, 10658-10665.	3.1	22
53	Precisely Tuning Helical Twisting Power via Photoisomerization Kinetics of Dopants in Chiral Nematic Liquid Crystals. Langmuir, 2018, 34, 700-708.	3.5	21
54	Hierarchical Hybrids of Carbon Nanotubes in Amphiphilic Poly(ethylene oxide)-<i>block</i>-polyaniline through a Facile Method: From Smooth to Thorny. Langmuir, 2013, 29, 3757-3764.	3.5	20

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55	Phase Behavior and Dewetting for Polymer Blend Films Studied by In Situ AFM and XPS:â€‰ From Thin to Ultrathin Films. Langmuir, 2007, 23, 11107-11111.	3.5	19
56	Mechanical and Dielectric Properties of a New Polymer Blend Composed of 1,2-Bis(vinylphenyl)ethane and Thermosetting Poly(phenylene ether) Copolymer Obtained from 2,6-Dimethylphenol and 2-Allyl-6-methylphenol. Polymer Journal, 2007, 39, 828-833.	2.7	19
57	Photomodulated Morphologies in Halogen Bondâ€“Driven Assembly during Gelâ€“Sol Transition. Macromolecular Rapid Communications, 2019, 40, 1800629.	3.9	19
58	Holographic polymer nanocomposites with ordered structures and improved electro-optical performance by doping POSS. Composites Part B: Engineering, 2019, 174, 107045.	12.0	18
59	A triple-stimuli responsive supramolecular hydrogel based on methoxy-azobenzene-grafted poly(acrylic acid) and Î²-cyclodextrin dimer. Polymer, 2021, 221, 123617.	3.8	18
60	Effect of ketyl radical on the structure and performance of holographic polymer/liquid-crystal composites. Science China Materials, 2019, 62, 1921-1933.	6.3	17
61	Visible Light Rewritable and Longâ€Lived Colors in Cholesteric Liquid Crystals: A Facile Coâ€Doping Strategy. Macromolecular Rapid Communications, 2019, 40, e1900037.	3.9	17
62	Carboxymethyl chitosanâ€'promoted luminescence of lanthanide metallogel and its application in assay of multiple metal ions. Carbohydrate Polymers, 2021, 263, 117986.	10.2	17
63	Amide group-containing polar solvents as ligands for iron-catalyzed atom transfer radical polymerization of methyl methacrylate. RSC Advances, 2015, 5, 43724-43732.	3.6	16
64	Highâ€Performance Photochromic Hydrogels for Rewritable Information Record. Macromolecular Rapid Communications, 2021, 42, e2000701.	3.9	16
65	Liquid Crystals under Confinement in Submicrometer Capsules. Langmuir, 2018, 34, 10955-10963.	3.5	15
66	Photo- and pH-responsive drug delivery nanocomposite based on o-nitrobenzyl functionalized upconversion nanoparticles. Polymer, 2021, 229, 123961.	3.8	15
67	Photomodulated Electro-optical Response in Self-Supporting Liquid Crystalline Physical Gels. Langmuir, 2018, 34, 7519-7526.	3.5	14
68	Reversible Redox Switching of Concurrent Luminescence and Visual Color Change Based on Lanthanide Metallogel. Langmuir, 2019, 35, 15344-15351.	3.5	14
69	Multiscale dewetting of triblock copolymer thin film induced by solvent vapor. Journal of Polymer Science, Part B: Polymer Physics, 2005, 43, 2874-2884.	2.1	13
70	Polymerâ€“inorganic hybrid microparticles with hierarchical structures formed by interfacial instabilities of emulsion droplets. Soft Matter, 2012, 8, 2697.	2.7	13
71	Chirality-Enabled Liquid Crystalline Physical Gels with High Modulus but Low Driving Voltage. ACS Applied Materials & Interfaces, 2018, 10, 43184-43191.	8.0	13
72	Intrinsically Visible Light-Responsive Liquid Crystalline Physical Gels Driven by a Halogen Bond. Langmuir, 2020, 36, 11873-11879.	3.5	13

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73	Chain-length effect on binary superlattices of polymer-tethered nanoparticles. Materials Chemistry Frontiers, 2020, 4, 2089-2095.	5.9	13
74	Naked-eye sensing and target-guiding treatment of bacterial infection using pH-tunable multicolor luminescent lanthanide-based hydrogel. Journal of Colloid and Interface Science, 2022, 610, 731-740.	9.4	13
75	Z/E Effect on Phase Behavior of Main-Chain Liquid Crystalline Polymers Bearing AIEgens. Macromolecules, 2021, 54, 10740-10749.	4.8	13
76	Injectable Thermosensitive Iodineâ€Loaded Starchâ€gâ€poly(Nâ€isopropylacrylamide) Hydrogel for Cancer Photothermal Therapy and Antiâ€Infection. Macromolecular Rapid Communications, 2022, 43, e2200203.	3.9	13
77	Reactive polycarbonate/diallyl phthalate blends with high optical transparency, good flowability and high mechanical properties. Polymer, 2016, 91, 89-97.	3.8	12
78	A heat-set lanthanide metallogel capable of emitting stable luminescence under thermal, mechanical and water stimuli. Dalton Transactions, 2020, 49, 2827-2832.	3.3	12
79	Concurrent Solutionâ€Like Decoloration Rate and High Mechanical Strength from Polymerâ€Dispersed Photochromic Organogel. Macromolecular Rapid Communications, 2014, 35, 741-746.	3.9	11
80	Effect of Stone-Wales Defect on Mechanical Properties of Gr/epoxy Nanocomposites. Polymers, 2019, 11, 1116.	4.5	11
81	Concentration-dependent dye aggregation and disassembly triggered by the same artificial helical foldamer. Polymer, 2019, 170, 7-15.	3.8	11
82	Hydrogen bond driven self-supporting organogels from main-chain liquid crystalline polymers. Polymer, 2020, 188, 122148.	3.8	11
83	Synthesis and photo-responsive behaviors of hollow polyazobenzene micro-spheres. Science Bulletin, 2010, 55, 3441-3447.	1.7	10
84	Dissolved oxygen-assisted enhancing room temperature phosphorescence of palladium-porphyrin in micelle-hybridized supramolecular gels under UV irradiation. Dyes and Pigments, 2019, 170, 107654.	3.7	10
85	One-step preparation of multifunctional alginate microspheres loaded with in situ-formed gold nanostars as a photothermal agent. Materials Chemistry Frontiers, 2019, 3, 2018-2024.	5.9	10
86	High-strength cellulose films obtained by the combined action of shear force and surface selective dissolution. Carbohydrate Polymers, 2020, 233, 115883.	10.2	10
87	Light regulation and long-lived stability of RGB colors in cholesteric liquid crystal physical gelsviaa mixing strategy. Soft Matter, 2021, 17, 3216-3221.	2.7	9
88	Strain-optical behavior of polyethylene terephthalate film during uniaxial stretching investigated by Mueller matrix ellipsometry. Polymer, 2019, 182, 121842.	3.8	8
89	Nondestructive investigation on the nanocomposite ordering upon holography using Mueller matrix ellipsometry. European Polymer Journal, 2019, 110, 123-129.	5.4	8
90	Al3+ enhanced room temperature phosphorescence of Pd-porphyrin resided in hybrid supramolecular gels and used for detection of trace Hg2+ ions. Talanta, 2019, 194, 183-188.	5.5	7

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91	Configurationâ€Dependent Liquid Crystal and Gel Behaviors of Tetraphenyletheneâ€Containing Mainâ€Chain Copolyesters. Macromolecular Rapid Communications, 2022, 43, e2200154.	3.9	7
92	Relationship between polymerization kinetics and microstructure in reactive polymer blends: An Avrami-Erofeev study. European Polymer Journal, 2018, 106, 72-78.	5.4	6
93	Concurrent helix extension and chirality enhancement for an artificial helical foldamer complexed with sterically hindered chiral molecules. Polymer, 2020, 188, 122135.	3.8	5
94	Luminescence sensitization of terbium-loaded supramolecular gels by hydroxybenzoic acids and used for salicylates sensing. Talanta, 2021, 225, 122061.	5.5	5
95	Helical tube triggered two-stage emission behavior for tetraphenylethene-functionalised hemicyanine dye: Better dispersion stronger fluorescence. Polymer, 2021, 225, 123771.	3.8	4
96	EFFECTS OF DIFFERENT ALCOHOLS ON PHOTOPOLYMERIZATION KINETICS, ELECTRO-OPTICAL PERFORMANCES OF POLYMER DISPERSED LIQUID CRYSTALS. Acta Polymerica Sinica, 2012, 012, 41-46.	0.0	4
97	Efficient preparation of all cellulose composite films using a plasticizing-rolling method. Composites Part A: Applied Science and Manufacturing, 2022, 158, 106968.	7.6	4
98	Peanut-Like Crystals in Polycarbonate/Plasticizer Blends. Macromolecular Chemistry and Physics, 2017, 218, 1600471.	2.2	3
99	Helix Induction and Inversion of Polymeric Foldamer Regulated by the Single Enantiomers. Macromolecular Rapid Communications, 2022, , 2200238.	3.9	2
100	Nano-silica enhanced liquid-crystalline composite gels. Chinese Science Bulletin, 2016, 61, 2155-2162.	0.7	1