

Yinghan Wang

List of Publications by Year in descending order

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104
papers

1,968
citations

304743

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all docs

107
docs citations

107
times ranked

1774
citing authors

#	ARTICLE	IF	CITATIONS
1	Designing MOF Nanoarchitectures for Electrochemical Water Splitting. <i>Advanced Materials</i> , 2021, 33, e2006042.	21.0	267
2	Aramid nanofibers and poly (vinyl alcohol) nanocomposites for ideal combination of strength and toughness via hydrogen bonding interactions. <i>Composites Science and Technology</i> , 2017, 144, 193-201.	7.8	159
3	PVA/polyethyleneimine-functionalized graphene composites with optimized properties. <i>Materials and Design</i> , 2016, 99, 235-242.	7.0	85
4	Bio-inspired natural polyphenol cross-linking poly(vinyl alcohol) films with strong integrated strength and toughness. <i>RSC Advances</i> , 2016, 6, 69966-69972.	3.6	54
5	Recent Advances in ZIF-Derived Atomic Metal-N-C Electrocatalysts for Oxygen Reduction Reaction: Synthetic Strategies, Active Centers, and Stabilities. <i>Small</i> , 2022, 18, e2105409.	10.0	50
6	Emerging Strategies toward Mechanically Robust Organic Photovoltaics: Focus on Active Layer. <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	50
7	A novel strategy for making poly(vinyl alcohol)/reduced graphite oxide nanocomposites by solvothermal reduction. <i>Materials & Design</i> , 2014, 54, 520-525.	5.1	49
8	The effect of molecular weight of polymer matrix on properties of polymer-dispersed liquid crystals. <i>European Polymer Journal</i> , 2007, 43, 2745-2749.	5.4	48
9	Fabrication of high strength PVA/rGO composite fibers by gel spinning. <i>RSC Advances</i> , 2014, 4, 43612-43618.	3.6	46
10	Preparation and characterization of a novel polyimide liquid crystal vertical alignment layer. <i>European Polymer Journal</i> , 2008, 44, 2718-2727.	5.4	45
11	Synthesis of soluble polyimides for vertical alignment of liquid crystal via one-step method. <i>European Polymer Journal</i> , 2010, 46, 1163-1167.	5.4	37
12	Effects of covalent bond interactions on properties of polyimide grafting sulfonated polyvinyl alcohol proton exchange membrane for vanadium redox flow battery applications. <i>Journal of Power Sources</i> , 2019, 433, 126680.	7.8	37
13	Enhancement of water and organic solvent resistances of a waterborne polyurethane film by incorporating liquid polysulfide. <i>RSC Advances</i> , 2016, 6, 17163-17171.	3.6	36
14	RAFT Copolymerization as a means to enhance the electro-optical performance of polymer dispersed liquid crystal films. <i>Journal of Polymer Science Part A</i> , 2007, 45, 4144-4149.	2.3	35
15	Generation of nematic liquid crystal alignment with polyimides exposed to linearly polarized light of long wavelength. <i>Journal of Applied Physics</i> , 1998, 84, 181-188.	2.5	33
16	The effect of the reduction extent on the performance of graphene/poly(vinyl alcohol) composites. <i>Journal of Materials Chemistry A</i> , 2014, 2, 14173.	10.3	33
17	Cost-effective one-pot surface modified method to engineer a green superhydrophobic sponge for efficient oil/water mixtures as well as emulsions separation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 576, 43-54.	4.7	32
18	Modification of electro-optical properties of polymer dispersed liquid crystal films by iniferter polymerization. <i>European Polymer Journal</i> , 2008, 44, 952-958.	5.4	31

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19	Homogeneous alignment of nematic liquid crystal induced by polyimide exposed to linearly polarized light. <i>Applied Physics Letters</i> , 1998, 72, 545-547.	3.3	29
20	Fabrication of dye-doped polymer-dispersed liquid crystals with low driving voltage based on nucleophile-initiated thiol-ene click reaction. <i>Liquid Crystals</i> , 2018, 45, 579-585.	2.2	29
21	Alignment of a nematic liquid crystal induced by anisotropic photo-oxidation of photosensitive polyimide films. <i>Journal of Applied Physics</i> , 1998, 84, 4573-4578.	2.5	23
22	Synthesis and mechanical properties of dopamine modified titanium dioxide/waterborne polyurethane composites. <i>Polymer Composites</i> , 2019, 40, 328-336.	4.6	23
23	Anchoring Fe ²⁺ Sites on Hierarchically Porous Carbon Sphere and CNT Interpenetrated Nanostructures as Efficient Cathodes for Zinc-Air Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 41609-41618.	8.0	23
24	A novel design for water-based modified epoxy coating with anti-corrosive application properties. <i>Progress in Organic Coatings</i> , 2014, 77, 219-224.	3.9	22
25	Synthesis of soluble polyimide derived from novel naphthalene diamines for liquid crystal alignment layers and a preliminary study on the mechanism of imidization. <i>RSC Advances</i> , 2013, 3, 14661.	3.6	21
26	New phosphorescent platinum(II) complexes: lamellar mesophase and mechanochromism. <i>New Journal of Chemistry</i> , 2016, 40, 10371-10377.	2.8	21
27	Synthesis of novel soluble polyimides containing triphenylamine groups for liquid crystal vertical alignment layers. <i>Journal of Polymer Research</i> , 2014, 21, 1.	2.4	20
28	A novel polymer dispersed liquid crystal film prepared by reversible addition fragmentation chain transfer polymerization. <i>European Polymer Journal</i> , 2007, 43, 4037-4042.	5.4	17
29	Effect of the structure of gelators on electro-optical properties of liquid crystal physical gels. <i>Journal of Colloid and Interface Science</i> , 2007, 316, 825-830.	9.4	17
30	The effect of dopamine modified titanium dioxide nanoparticles on the performance of Poly (vinyl) Tj ETQq0 0 0 rgBT/Overlock 10 Tf 50	7.8	17
31	Photoinduced alignment of liquid crystals parallel to the polarization direction of linearly polarized light. <i>Journal of Materials Chemistry</i> , 2003, 13, 669-671.	6.7	16
32	Facile fabrication of polymer-dispersed liquid crystal films via nucleophile-initiated thiol-ene click reaction. <i>Liquid Crystals</i> , 2017, 44, 1695-1700.	2.2	16
33	A study on electro-optical properties of polymer dispersed liquid crystal films doped with barium titanate nanoparticles prepared by nucleophile-initiated thiol-ene click reaction. <i>Liquid Crystals</i> , 2020, 47, 1004-1018.	2.2	16
34	Effect of the functional diamine structure on the properties of a polyimide liquid crystal alignment film. <i>RSC Advances</i> , 2015, 5, 25348-25356.	3.6	15
35	Effects of the chain length of crosslinking agent and dye-doped amount on the electro-optical properties of polymer-dispersed liquid crystal films prepared by nucleophile-initiated thiol-ene click reaction. <i>Liquid Crystals</i> , 2020, 47, 42-53.	2.2	15
36	Supramolecular graft copolymers in moderately polar media based on hydrogen-bonded aromatic oligoamide units. <i>Chemical Communications</i> , 2012, 48, 9510.	4.1	14

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37	Tunable Mesogens Based on Shape-Persistent Aromatic Oligoamides: From Lamellar, Columnar, to Nematic Liquid Crystalline Phase. <i>Organic Letters</i> , 2012, 14, 3584-3587.	4.6	14
38	High glass transition of organo-soluble copolyimides derived from a rigid diamine with tert-butyl-substituted triphenylpyridine moiety. <i>RSC Advances</i> , 2013, 3, 7271.	3.6	14
39	Effects of alkyl chain length of monomer and dye-doped type on the electro-optical properties of polymer-dispersed liquid crystal films prepared by nucleophile-initiated thiol-ene click reaction. <i>Liquid Crystals</i> , 2020, 47, 658-672.	2.2	14
40	Thermal stability of alignment of a nematic liquid crystal induced by polyimides exposed to linearly polarized light. <i>Liquid Crystals</i> , 2001, 28, 473-475.	2.2	13
41	The Effects of Different Side Groups on the Properties of Polythiophene. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2007, 44, 989-993.	2.2	13
42	Influence of matrix glass transition temperature on the memory effect of polymer-dispersed liquid crystals. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2010, 48, 729-732.	2.1	13
43	Large pretilt angle induced by an anhydride-terminal hyperbranched polyimide liquid crystal alignment layer. <i>Liquid Crystals</i> , 2010, 37, 345-348.	2.2	13
44	The effect of phthalimide side chains on the thermal stability and rubbing resistance of polyimide used as a liquid crystal vertical alignment layer. <i>Journal of Polymer Research</i> , 2013, 20, 1.	2.4	13
45	Synthesis of photosensitive polyimide for liquid crystal alignment under non-polarised UV ageing lamp irradiation and a study on the possible mechanism of alignment. <i>Liquid Crystals</i> , 2020, 47, 489-499.	2.2	13
46	Preparation of sulfonated polysulfone/sulfonated titanium dioxide hybrid membranes for DMFC applications. <i>Journal of Applied Polymer Science</i> , 2020, 137, 48938.	2.6	12
47	A study of the transition of liquid-crystal alignment from homeotropic to planar on a polyimide layer. <i>Liquid Crystals</i> , 2010, 37, 271-278.	2.2	11
48	Effect of graft polymer prepared by living radical polymerisation on electro-optical properties of polymer dispersed liquid crystal. <i>Liquid Crystals</i> , 2012, 39, 1458-1464.	2.2	11
49	Fabrication of polymer-dispersed liquid crystals with low driving voltage based on the thiol-ene click reaction. <i>Polymer International</i> , 2017, 66, 1094-1098.	3.1	11
50	Crosslinked sulfonated poly (arylene ether sulfone)/sulfonated poly (vinyl alcohol) membrane formed by in situ casting and reaction for vanadium redox flow battery application. <i>Chemical Engineering Journal</i> , 2021, 425, 131448.	12.7	11
51	Fine adjustment of network in polymer network liquid crystal film employing RAFT polymerization. <i>Journal of Polymer Science Part A</i> , 2008, 46, 3140-3144.	2.3	10
52	Synthesis of novel hyperbranched polyimide for liquid crystal alignment. <i>Liquid Crystals</i> , 2008, 35, 385-388.	2.2	10
53	Effect of molecular weight of liquid polysulfide on water and organic solvent resistances of waterborne polyurethane/polysulfide copolymer. <i>Progress in Organic Coatings</i> , 2017, 112, 219-224.	3.9	10
54	Preparation and alignment properties of photosensitive polyimide containing benzophenone in main chain. <i>Liquid Crystals</i> , 2020, 47, 750-760.	2.2	10

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55	Preparation of sulfonated polyimide/polyvinyl alcohol composite membrane for vanadium redox flow battery applications. <i>Polymer Bulletin</i> , 2021, 78, 4183-4204.	3.3	10
56	Control of liquid crystal droplet configuration in polymer dispersed liquid crystal with macro-iniferter polystyrene. <i>Liquid Crystals</i> , 2009, 36, 933-938.	2.2	9
57	Effect of macro-RAFT agent on the morphology of polymer dispersed liquid crystals. <i>Liquid Crystals</i> , 2014, 41, 652-661.	2.2	9
58	Synthesis and characterization of soluble and thermally stable triphenylpyridine-containing aromatic polyimides. <i>Journal of Materials Science</i> , 2015, 50, 6552-6558.	3.7	9
59	Synthesis of a novel polyimide used as liquid crystal vertical alignment layers. <i>RSC Advances</i> , 2015, 5, 57245-57253.	3.6	9
60	Photo-Induced Vertical Alignment of Liquid Crystals via In Situ Polymerization Initiated by Polyimide Containing Benzophenone. <i>Polymers</i> , 2017, 9, 233.	4.5	9
61	Effects of thiol monomers on the electro-optical properties of polymer-dispersed liquid crystal films prepared by nucleophile-initiated thiol-ene click reaction. <i>Liquid Crystals</i> , 2018, 45, 1746-1752.	2.2	9
62	Effect of polymer structures on electro-optical properties of polymer stabilized liquid crystal films. <i>Frontiers of Chemical Engineering in China</i> , 2008, 2, 265-268.	0.6	8
63	The effect of the resultant microphase-separated structures of polymer matrices on the electro-optical properties of polymer dispersed liquid crystal films by Iniferter polymerization. <i>European Polymer Journal</i> , 2009, 45, 1936-1940.	5.4	8
64	The improvement of electro-optical properties of polymer dispersed liquid crystals using copolymer macroinitiator with different glass transition temperature. <i>Journal of Polymer Science Part A</i> , 2010, 48, 5557-5561.	2.3	8
65	Synthesis and characterization of a crosslinked membrane based on sulfonated poly(aryl ether) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Research, 2020, 27, 1.	2.4	8
66	Preparation of polyimide alignment films with high photosensitivity and low solid content. <i>Liquid Crystals</i> , 2021, 48, 598-606.	2.2	8
67	Improved chemical stability and proton selectivity of semi-interpenetrating polymer network amphoteric membrane for vanadium redox flow battery application. <i>Journal of Applied Polymer Science</i> , 2021, 138, 49803.	2.6	8
68	Effect of molecular weight of macro-iniferter on electro-optical properties of polymer dispersed liquid crystal films prepared by iniferter polymerization. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2009, 47, 1530-1534.	2.1	7
69	Electro-optical properties of polymer dispersed liquid crystal prepared by controlled graft living radical polymerization. <i>Journal of Applied Polymer Science</i> , 2012, 124, 2200-2208.	2.6	7
70	Effect of graft copolymer matrix prepared by reversible addition-fragmentation chain transfer and atom transfer radical polymerization on the electro-optical properties of polymer dispersed liquid crystals. <i>Polymer International</i> , 2014, 63, 1691-1698.	3.1	7
71	Synthesis and characterisation of novel soluble polyimides for the application as liquid crystal vertical alignment layers. <i>Liquid Crystals</i> , 2014, 41, 1831-1842.	2.2	7
72	Flower-like Mesoporous Carbon with Cobalt Sulfide Nanocrystalline as Efficient Bifunctional Electrocatalysts for Zn-Air Batteries. <i>ChemCatChem</i> , 2022, 14, .	3.7	7

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73	Synthesis and characterisation of rubbing-resistant polyimides with naphthalimide side-chain for liquid-crystal alignment layers. <i>Liquid Crystals</i> , 2013, 40, 756-768.	2.2	6
74	Influence of macroinitiator's glass transition temperature on the response times of polymer dispersed liquid crystals. <i>Liquid Crystals</i> , 2014, 41, 202-206.	2.2	6
75	Effect of rGO on polymer-dispersed liquid crystal fabricated by RAFT polymerisation. <i>Liquid Crystals</i> , 2015, 42, 1428-1435.	2.2	6
76	The effect of junction modes between backbones and side chains of polyimides on the stability of liquid crystal vertical alignment. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 3884-3892.	2.8	6
77	Facile fabrication of sulfonated poly(aryl ether sulfone)/polybenzoxazine crosslinked membrane for vanadium flow battery application. <i>Polymer Bulletin</i> , 2021, 78, 4509-4525.	3.3	6
78	Preparation of a novel ternary photosensitive polyimide for liquid crystal alignment films. <i>Liquid Crystals</i> , 2021, 48, 2200-2208.	2.2	6
79	Sulfur-modulated FeNi nanoalloys as bifunctional oxygen electrode for efficient rechargeable aqueous Zn-air batteries. <i>Science China Materials</i> , 2022, 65, 3007-3016.	6.3	6
80	Synthesis and characterization of copolythiophene. <i>Journal of Applied Polymer Science</i> , 2007, 105, 3543-3550.	2.6	5
81	Macro reversible addition-fragmentation chain transfer agent mixture as a means to enhance the electro-optical performance of polymer dispersed liquid crystals. <i>Polymer International</i> , 2011, 60, 971-975.	3.1	5
82	A study of the stabilization of vertical alignment for liquid crystals by increasing the side-chain rigidity of polyimides. <i>Polymer International</i> , 2013, 62, 658-664.	3.1	5
83	Response times of polymer dispersed liquid crystals with linear or graft copolymer matrix prepared by controlled living polymerization. <i>RSC Advances</i> , 2014, 4, 14997-15002.	3.6	5
84	The effect of photoinitiator concentration and structures of RAFT macroinitiators on the memory effect of polymer dispersed liquid crystals. <i>Polymer Engineering and Science</i> , 2015, 55, 8-13.	3.1	5
85	Synthesis of novel soluble rubbing-resistant polyimides used as liquid crystal vertical alignment layers. <i>Liquid Crystals</i> , 2016, 43, 131-141.	2.2	5
86	The preparation of novel sulfonated poly(aryl ether ketone sulfone)/TiO ₂ composite membranes with low methanol permeability for direct methanol fuel cells. <i>High Performance Polymers</i> , 2021, 33, 326-337.	1.8	5
87	Electro-optical properties of polymer dispersed liquid crystal prepared by successively controlled living radical polymerization. <i>Polymer Composites</i> , 2012, 33, 178-184.	4.6	4
88	Effects of hyperbranched prepolymers prepared from butyl acrylate and butyl methacrylate on the electro-optical properties of polymer dispersed liquid crystal. <i>Polymers for Advanced Technologies</i> , 2012, 23, 1321-1327.	3.2	4
89	The improvement of electro-optical properties of polymer-dispersed liquid crystals with graft copolymer matrix synthesized by reversible addition-fragmentation chain transfer and atom transfer radical polymerization. <i>Polymer International</i> , 2015, 64, 405-412.	3.1	4
90	Study on the effect of different amounts of hydroxyl and tert-butyl substituted triphenylpyridine units on the properties of polyimide. <i>Journal of Polymer Research</i> , 2020, 27, 1.	2.4	4

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91	A study on electro-optical properties of polymer dispersed liquid crystal films with thiol-isocyanate-ene ternary network prepared by nucleophile-initiated thiol-ene click reaction and thiol-isocyanate coupling reaction. <i>Liquid Crystals</i> , 2020, 47, 1624-1637.	2.2	4
92	Controlled synthesis of poly(vinyl acetate) by traditional radical emulsion polymerization. <i>Polymer International</i> , 2016, 65, 1382-1386.	3.1	3
93	Synthesis and characterization of a novel organo-soluble polyimide containing hydroxyl and bis-tert-butyl substituted triphenylpyridine units. <i>Journal of Polymer Research</i> , 2020, 27, 1.	2.4	3
94	The impact of the flexibility of photosensitive polyimide backbone on the properties of liquid-crystal alignment under non-polarised ultraviolet light. <i>Liquid Crystals</i> , 2021, 48, 1111-1119.	2.2	3
95	Preparation and performance analysis of novel liquid crystal alignment films based on macromolecular photosensitizer and photosensitive polyimide. <i>Liquid Crystals</i> , 2021, 48, 735-745.	2.2	3
96	Hyperbranched polyimide application in liquid crystal alignment layers. <i>Polymers for Advanced Technologies</i> , 2013, 24, 126-129.	3.2	2
97	Porous membranes based on poly(ether imide)-graft-poly(vinyl acetate) as a scaffold for cell growth. <i>Journal of Bioactive and Compatible Polymers</i> , 2018, 33, 178-194.	2.1	2
98	Synthesis and characterization of a novel sulfonated poly (aryl ether ketone sulfone) semi-crosslinked membrane with high proton selectivity through click reaction for direct methanol fuel cells. <i>High Performance Polymers</i> , 2021, 33, 345-357.	1.8	2
99	Sulfonated poly (arylene ether sulfone)-graft-sulfonated poly (vinyl alcohol) proton exchange membranes: Improved proton selectivity. <i>High Performance Polymers</i> , 2021, 33, 451-461.	1.8	2
100	Study on the effect of small molecule photosensitizer and photoinitiator on alignment behavior of photosensitive polyimide. <i>Liquid Crystals</i> , 2021, 48, 1034-1042.	2.2	2
101	The impact of flexibility of polyimides backbones on the stability of liquid crystal vertical alignment. <i>RSC Advances</i> , 2016, 6, 55479-55489.	3.6	1
102	PREPARATION OF SOLUBLE POLYIMIDE AND ITS POTENTIAL APPLICATION IN LIQUID CRYSTAL DISPLAYS. <i>Acta Polymerica Sinica</i> , 2009, 009, 566-571.	0.0	1
103	PREPARATION OF POLYMER DISPERSED LIQUID CRYSTAL FILMS WITH MULTI-FUNCTIONAL INIFERTER AND ITS CONTENT EFFECT ON ELECTRO-OPTICAL PROPERTIES. <i>Acta Polymerica Sinica</i> , 2010, 010, 870-875.	0.0	0
104	Ternary copolymerization photosensitive polyimide containing flexible group for liquid crystal alignment film. <i>Journal of Polymer Research</i> , 2022, 29, .	2.4	0