

Hu Liuyong

List of Publications by Year in descending order

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83
papers

3,640
citations

136950

32
h-index

133252

59
g-index

84
all docs

84
docs citations

84
times ranked

4665
citing authors

#	ARTICLE	IF	CITATIONS
1	Near-Infrared Organic Compounds and Emerging Applications. Chemistry - an Asian Journal, 2010, 5, 1006-1029.	3.3	667
2	Band Gap Tunable, Donor-Acceptor-Donor Charge-Transfer Heteroquinoid-Based Chromophores: Near Infrared Photoluminescence and Electroluminescence. Chemistry of Materials, 2008, 20, 6208-6216.	6.7	361
3	Simple and Efficient Near-Infrared Organic Chromophores for Light-Emitting Diodes with Single Electroluminescent Emission above 1000 nm. Advanced Materials, 2009, 21, 111-116.	21.0	295
4	Visible and near-infrared chemosensor for colorimetric and ratiometric detection of cyanide. Journal of Materials Chemistry, 2009, 19, 522-530.	6.7	127
5	Tailor-Made Semiconducting Polymers for Second Near-Infrared Photothermal Therapy of Orthotopic Liver Cancer. ACS Nano, 2019, 13, 7345-7354.	14.6	126
6	Polyimides Derived from Novel Unsymmetric Dianhydride. Macromolecules, 2000, 33, 4310-4312.	4.8	94
7	Advances in Organic Near-Infrared Materials and Emerging Applications. Chemical Record, 2016, 16, 1531-1548.	5.8	93
8	Colorimetric and near-infrared fluorescence turn-on molecular probe for direct and highly selective detection of cysteine in human plasma. Journal of Materials Chemistry, 2011, 21, 1040-1048.	6.7	92
9	Optimization of Solubility, Film Morphology and Photodetector Performance by Molecular Side-Chain Engineering of Low-Bandgap Thienothiadiazole-Based Polymers. Advanced Functional Materials, 2014, 24, 7605-7612.	14.9	89
10	Dual Modulation of a Molecular Switch with Exceptional Chiroptical Properties. Journal of the American Chemical Society, 2005, 127, 11552-11553.	13.7	73
11	Optimization of Broad-Response and High-Detectivity Polymer Photodetectors by Bandgap Engineering of Weak Donor-Strong Acceptor Polymers. Macromolecules, 2015, 48, 3941-3948.	4.8	72
12	Low-bandgap donor-acceptor polymers for photodetectors with photoresponsivity from 300 nm to 1600 nm. Journal of Materials Chemistry C, 2017, 5, 159-165.	5.5	70
13	Near-Infrared Electrochromic and Electroluminescent Polymers Containing Pendant Ruthenium Complex Groups. Macromolecules, 2006, 39, 7502-7507.	4.8	67
14	Dendritic Mixed-Valence Dinuclear Ruthenium Complexes for Optical Attenuation at Telecommunication Wavelengths. Macromolecules, 2003, 36, 3146-3151.	4.8	64
15	Ultra-sensitive detection of explosives in solution and film as well as the development of thicker film effectiveness by tetraphenylethene moiety in AIE active fluorescent conjugated polymer. Polymer Chemistry, 2014, 5, 5638.	3.9	63
16	Low-Bandgap Polymers for High-Performance Photodiodes with Maximal EQE near 1200 nm and Broad Spectral Response from 300 to 1700 nm. Advanced Optical Materials, 2018, 6, 1800038.	7.3	62
17	Refractive Index Matching: A General Method for Enhancing the Optical Clarity of a Hydrogel Matrix. Chemistry of Materials, 2002, 14, 4487-4489.	6.7	57
18	Panchromatic small molecules for UV-Vis-NIR photodetectors with high detectivity. Journal of Materials Chemistry C, 2014, 2, 2431.	5.5	54

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19	Rational Design, Synthesis, and Optical Properties of Film-Forming, Near-Infrared Absorbing, and Fluorescent Chromophores with Multidonors and Large Heterocyclic Acceptors. <i>Chemistry - A European Journal</i> , 2009, 15, 8902-8908.	3.3	53
20	Synthesis and near-infrared luminescent properties of some ruthenium complexes. <i>Synthetic Metals</i> , 2008, 158, 484-488.	3.9	52
21	Ultrafast nonresonant third-order optical nonlinearity of fullerene-containing polyurethane films at telecommunication wavelengths. <i>Applied Physics Letters</i> , 2003, 83, 2115-2117.	3.3	50
22	Design, synthesis, and properties of benzobisthiadiazole-based donor-acceptor-donor type of low-band-gap chromophores and polymers. <i>Canadian Journal of Chemistry</i> , 2010, 88, 192-201.	1.1	45
23	Synthesis and characterization of poly(aryl ether imide)s containing electroactive perylene diimide and naphthalene diimide units. <i>Journal of Polymer Science Part A</i> , 2000, 38, 3467-3475.	2.3	42
24	Synthesis and study of low-bandgap polymers containing the diazapentalene and diketopyrrolopyrrole chromophores for potential use in solar cells and near-infrared photodetectors. <i>Journal of Materials Chemistry</i> , 2012, 22, 12867.	6.7	40
25	Cross-linked C60 Polymer Breaches the Quantum Gap. <i>Nano Letters</i> , 2004, 4, 1673-1675.	9.1	36
26	Condensation Polyimides from AB-Type Amino Anhydride Monomers. <i>Macromolecules</i> , 1997, 30, 764-769.	4.8	35
27	Effect of film thickness, blending and undercoating on optical detection of nitroaromatics using fluorescent polymer films. <i>Polymer</i> , 2010, 51, 842-847.	3.8	35
28	Facile synthesis of organo-soluble surface-grafted all-single-layer graphene oxide as hole-injecting buffer material in organic light-emitting diodes. <i>Journal of Materials Chemistry</i> , 2011, 21, 6040.	6.7	35
29	Synthesis and properties of polyimides from 4,4'-binaphthyl-1,1'-diyl, 8,8'-tetracarboxylic dianhydride. <i>Journal of Polymer Science Part A</i> , 1995, 33, 1627-1635.	2.3	34
30	High-Detectivity All-Polymer Photodetectors with Spectral Response from 300 to 1100 nm. <i>Macromolecular Chemistry and Physics</i> , 2016, 217, 1683-1689.	2.2	34
31	Near-infrared chemiluminescence tunable from 900 nm to 1700 nm from narrow-bandgap compounds and polymers. <i>Chemical Communications</i> , 2012, 48, 6426.	4.1	33
32	Naphthalene diimide-diketopyrrolopyrrole copolymers as non-fullerene acceptors for use in bulk-heterojunction all-polymer UV-NIR photodetectors. <i>Polymer Chemistry</i> , 2017, 8, 528-536.	3.9	32
33	Near-Infrared Thermochromic Diazapentalene Dyes. <i>Advanced Materials</i> , 2012, 24, 1582-1588.	21.0	30
34	Electrochemical behavior of a new electroactive polyimide derived from aniline trimer. <i>Journal of Polymer Science Part A</i> , 1999, 37, 4295-4301.	2.3	29
35	Optical attenuation at the 1,550-nm wavelength in a reflective mode using electrochromic ruthenium complex film. <i>Journal of Solid State Electrochemistry</i> , 2009, 13, 365-369.	2.5	29
36	A precursor strategy for the synthesis of low band-gap polymers: an efficient route to a series of near-infrared electrochromic polymers. <i>Journal of Materials Chemistry</i> , 2011, 21, 7678.	6.7	29

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37	New one-step synthesis of polyimides in salicylic acid. <i>Polymer</i> , 2008, 49, 831-835.	3.8	26
38	Highly Sensitive Dual-Mode Fluorescence Detection of Lead Ion in Water Using Aggregation-Induced Emissive Polymers. <i>Macromolecular Rapid Communications</i> , 2014, 35, 1592-1597.	3.9	23
39	Long-distance chirality transfer in polymerization of isocyanides bearing a remote chiral group. <i>Polymer International</i> , 1997, 44, 83-87.	3.1	22
40	Highly sensitive and selective fluorescence turn-on detection of lead ion in water using fluorene-based compound and polymer. <i>Journal of Materials Chemistry A</i> , 2014, 2, 5024.	10.3	21
41	Synthesis of polyimides and segmented block copolyimides by transimidization. <i>Journal of Polymer Science Part A</i> , 2000, 38, 3991-3996.	2.3	20
42	Characterization and comparison of poly(aryl ether ketone)s containing dibenzoylbiphenyl moieties: Effects of changes in biphenyl substitution pattern on thermal and mechanical properties. <i>Journal of Polymer Science Part A</i> , 1995, 33, 2741-2752.	2.3	19
43	Anhydride-Containing Polysulfones Derived from a Novel A2X-Type Monomer. <i>Macromolecules</i> , 1998, 31, 7970-7972.	4.8	17
44	Side-chain engineering in naphthalenediimide-based n-type polymers for high-performance all-polymer photodetectors. <i>Polymer Chemistry</i> , 2018, 9, 327-334.	3.9	17
45	Synthesis, Characterization, and Multilayer Assemblies of Acid and Base Polyimides. <i>Macromolecules</i> , 2003, 36, 5885-5890.	4.8	16
46	Significant Enhancement of the Detectivity of Polymer Photodetectors by Using Electrochemically Deposited Interfacial Layers of Crosslinked Polycarbazole and Carbazole-Tethered Gold Nanoparticles. <i>Advanced Materials Interfaces</i> , 2015, 2, 1400475.	3.7	16
47	Effect of compositions of acceptor polymers on dark current and photocurrent of all-polymer bulk-heterojunction photodetectors. <i>Polymer</i> , 2017, 114, 173-179.	3.8	15
48	Side-chain engineering for fine-tuning of molecular packing and nanoscale blend morphology in polymer photodetectors. <i>Polymer Chemistry</i> , 2017, 8, 2055-2062.	3.9	15
49	Visible and near-infrared electrochromic thiophene-diketopyrrolopyrrole polymers. <i>RSC Advances</i> , 2017, 7, 15521-15526.	3.6	15
50	Preparation and photochemical study of soluble optically active block copolymermethacrylates and azo-containing random copolymermethacrylates. <i>Journal of Polymer Science Part A</i> , 1997, 35, 9-16.	2.3	14
51	Synthesis of Rigid Alternating Copolyimides Containing a Bent Unit. <i>Macromolecules</i> , 1996, 29, 792-794.	4.8	13
52	Molecular approach to the development of polyimides with novel structures and properties. <i>Polymers for Advanced Technologies</i> , 2000, 11, 652-657.	3.2	12
53	Colorless metallodithiolene oligomers and polymers with intense near- and mid-infrared absorption. <i>RSC Advances</i> , 2015, 5, 6815-6822.	3.6	12
54	Synthesis and characterization of poly(ether naphthalimide)s. <i>Journal of Polymer Science Part A</i> , 1999, 37, 3227-3231.	2.3	11

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55	Short-conjugated zwitterionic cyanopyridinium chromophores: Synthesis, crystal structure, and linear/nonlinear optical properties. <i>Dyes and Pigments</i> , 2014, 111, 145-155.	3.7	10
56	Broad-spectrum chemiluminescence covering a 400–1400 nm spectral region and its use as a white-near infrared light source for imaging. <i>RSC Advances</i> , 2015, 5, 100736-100742.	3.6	10
57	Enhancement of photodetector performance by tuning donor-acceptor ratios in diketopyrrolopyrrole- and thiophene-based polymers. <i>Polymer</i> , 2016, 99, 427-433.	3.8	10
58	Photo-induced crosslinking of water-soluble polymers with a new photobase generator. <i>Polymer</i> , 2010, 51, 4058-4062.	3.8	8
59	Ultrafast photoresponse organic phototransistors based on pyrimido[4,5-g]quinazoline-4,9-dione polymer. <i>Journal of Materials Chemistry C</i> , 2017, 5, 8742-8748.	5.5	8
60	Poly(aryl ether)s containing go-terphenyl subunits. II. Random poly(ether sulfone)s. <i>Journal of Polymer Science Part A</i> , 2000, 38, 9-17.	2.3	7
61	Visible and near-infrared chiroptical gels containing electrochromic anthraquinone imide groups. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2012, 30, 328-336.	3.8	7
62	Corrugated Fiber Grating for Detection of Lead Ions in Water. <i>Journal of Lightwave Technology</i> , 2015, 33, 2549-2553.	4.6	7
63	Synthesis, morphology and device characterizations of a new organic semiconductor based on 2,6-diphenylindenofluorene. <i>Journal of Materials Science: Materials in Electronics</i> , 2007, 18, 903-912.	2.2	6
64	Low-LUMO acceptor polymers for high-gain all-polymer photodiodes. <i>Journal of Materials Chemistry C</i> , 2018, 6, 10838-10844.	5.5	6
65	Low-Bandgap Terpolymers for High-Gain Photodiodes with High Detectivity and Responsivity from 300–1600 nm. <i>ChemistrySelect</i> , 2018, 3, 7385-7393.	1.5	6
66	Novel Reactive Cyclobutenedione in Poly(arylene ether) Synthesis. <i>Macromolecules</i> , 1996, 29, 1073-1075.	4.8	5
67	Unsymmetric 1,4-naphthylene-containing polysulfones. <i>Macromolecular Rapid Communications</i> , 1996, 17, 795-803.	3.9	5
68	Soluble alternating copolyimides containing the tetrahydro[5]helicene unit. <i>Journal of Polymer Science Part A</i> , 1998, 36, 1349-1353.	2.3	5
69	TNT Vapor Detection Based on a Lab-on-a-Fiber: Achieving a Millimeter-Scale Sensing Element on Fiber. <i>IEEE Sensors Journal</i> , 2012, 12, 213-217.	4.7	5
70	Dielectric properties of novel poly(aryl prehnitimide)s. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1996, 34, 731-736.	2.1	4
71	Electroactive Aniline Oligomers of Well-Defined Structures and Their Polymeric Derivatives. <i>ACS Symposium Series</i> , 1999, , 384-398.	0.5	4
72	Combined Chemical and Raman Spectroscopic Determination of Microstructural Arrangement in Poly(2,5-benzophenone)s. <i>Macromolecules</i> , 1999, 32, 1691-1693.	4.8	4

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73	Facile synthesis and characterization of well-defined soluble poly(benzimidazobenzophenanthroline)-like derivatives. <i>RSC Advances</i> , 2014, 4, 9967.	3.6	4
74	Broadband polymer photodetectors with a good trade-off between broad response and high detectivity by using combined electron-deficient moieties. <i>Journal of Materials Chemistry C</i> , 2020, 8, 3431-3437.	5.5	4
75	Poly(aryl ether)s containing terphenyl subunits. III. Random copoly(ether imide)s. <i>Journal of Polymer Science Part A</i> , 2000, 38, 758-763.	2.3	3
76	Intense near- and mid-infrared absorbing films of electrochemically crosslinked multinuclear metallodithiolene complex polymers. <i>Chemical Research in Chinese Universities</i> , 2016, 32, 296-301.	2.6	3
77	Synthesis and characterization of poly(aryl amide imide)s derived from diphenyltrimellitic anhydride. <i>Journal of Polymer Science Part A</i> , 1999, 37, 4541-4545.	2.3	2
78	TOWARDS THERMALLY STABLE, HIGHLY ELECTRO-OPTICALLY ACTIVE ORGANIC POLYMERS: DESIGN AND SYNTHESIS OF CROSSLINKABLE POLYIMIDES CONTAINING ZWITTERIONIC NONLINEAR OPTICAL CHROMOPHORES. <i>Journal of Nonlinear Optical Physics and Materials</i> , 2005, 14, 367-374.	1.8	2
79	Fiber-Optic Membrane Fluorescent Sensor Based on Photonic Crystal Fiber with a Glass Rod in the Fiber End. , 0, , .		1
80	Significant Efficiency Enhancement of Bulk Heterojunction Organic Photovoltaics Using Solution-Processable Interfacial Bilayers. <i>ChemElectroChem</i> , 2014, 1, 471-475.	3.4	1
81	Kinetic Studies of Photo-Cross-Linking of Acetylene-Containing Polyacrylates in the Presence of Tungsten Hexacarbonyl. <i>Macromolecules</i> , 2004, 37, 6650-6652.	4.8	0
82	Novel Near-IR Electrochromic Ruthenium Complex Polymers. <i>ACS Symposium Series</i> , 2004, , 51-65.	0.5	0
83	Correction to "Lab-on-a-Fiber Device for Trace Vapor TNT Explosive Detection: Comprehensive Performance Evaluation" [Apr 13 1127-1133]. <i>Journal of Lightwave Technology</i> , 2012, 30, 3068-3068.	4.6	0