

Liping Ding

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Pyrene-Containing Conjugated Polymer-Based Fluorescent Films for Highly Sensitive and Selective Sensing of TNT in Aqueous Medium. <i>Macromolecules</i> , 2011, 44, 4759-4766.	4.8	173
2	Chemically assembled monolayers of fluorophores as chemical sensing materials. <i>Chemical Society Reviews</i> , 2010, 39, 4258.	38.1	132
3	Fluorescent Sensors for Nitroaromatic Compounds Based on Monolayer Assembly of Polycyclic Aromatics. <i>Langmuir</i> , 2007, 23, 1584-1590.	3.5	101
4	Glucose-Based Fluorescent Low-Molecular Mass Compounds: Creation of Simple and Versatile Supramolecular Gelators. <i>Langmuir</i> , 2010, 26, 5909-5917.	3.5	96
5	Micelle-Induced Versatile Sensing Behavior of Bispyrene-Based Fluorescent Molecular Sensor for Picric Acid and PYX Explosives. <i>Langmuir</i> , 2014, 30, 7645-7653.	3.5	90
6	Bispyrene/surfactant assemblies as fluorescent sensor platform: detection and identification of Cu ²⁺ and Co ²⁺ in aqueous solution. <i>Journal of Materials Chemistry A</i> , 2013, 1, 8866.	10.3	79
7	An Ultrasensitive Fluorescent Sensing Nanofilm for Organic Amines Based on Cholesterol-Modified Perylene Bisimide. <i>Chemistry - an Asian Journal</i> , 2012, 7, 1576-1582.	3.3	72
8	Insight into the Mechanism of Antimicrobial Conjugated Polyelectrolytes: Lipid Headgroup Charge and Membrane Fluidity Effects. <i>Langmuir</i> , 2010, 26, 5544-5550.	3.5	71
9	Single-layer assembly of pyrene end-capped terthiophene and its sensing performances to nitroaromatic explosives. <i>Journal of Materials Chemistry</i> , 2012, 22, 1069-1077.	6.7	69
10	Light and dark biocidal activity of cationic poly(arylene ethynylene) conjugated polyelectrolytes. <i>Photochemical and Photobiological Sciences</i> , 2009, 8, 998.	2.9	61
11	Ternary System Based on Fluorophore-“Surfactant Assemblies”Cu ²⁺ for Highly Sensitive and Selective Detection of Arginine in Aqueous Solution. <i>Langmuir</i> , 2014, 30, 15364-15372.	3.5	56
12	Spacer Layer Screening Effect: A Novel Fluorescent Film Sensor for Organic Copper(II) Salts. <i>Langmuir</i> , 2006, 22, 841-845.	3.5	55
13	Preparation of pyrene-functionalized fluorescent film with a benzene ring in spacer and sensitive detection to picric acid in aqueous phase. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2011, 217, 356-362.	3.9	54
14	Bispyrene/Surfactant-Assembly-Based Fluorescent Sensor Array for Discriminating Lanthanide Ions in Aqueous Solution. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 16156-16165.	8.0	53
15	Insight into the Mechanism of Antimicrobial Poly(phenylene ethynylene) Polyelectrolytes: Interactions with Phosphatidylglycerol Lipid Membranes. <i>Langmuir 25th Year: Molecular and macromolecular self-assemblies</i> . <i>Langmuir</i> , 2009, 25, 13742-13751.	3.5	52
16	A single fluorescent self-assembled monolayer film sensor with discriminatory power. <i>Journal of Materials Chemistry</i> , 2012, 22, 11574.	6.7	50
17	Photochemical Stabilization of Terthiophene and Its Utilization as a New Sensing Element in the Fabrication of Monolayer-Chemistry-Based Fluorescent Sensing Films. <i>ACS Applied Materials & Interfaces</i> , 2011, 3, 1245-1253.	8.0	47
18	Fluorescent Binary Ensemble Based on Pyrene Derivative and Sodium Dodecyl Sulfate Assemblies as a Chemical Tongue for Discriminating Metal Ions and Brand Water. <i>ACS Sensors</i> , 2017, 2, 1821-1830.	7.8	46

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19	Highly Sensitive and Discriminative Detection of BTEX in the Vapor Phase: A Film-Based Fluorescent Approach. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 35647-35655.	8.0	46
20	Protein Binding-Induced Surfactant Aggregation Variation: A New Strategy of Developing Fluorescent Aqueous Sensor for Proteins. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 4728-4736.	8.0	44
21	Detection and Identification of Cu ²⁺ and Hg ²⁺ Based on the Cross-reactive Fluorescence Responses of a Dansyl-Functionalized Film in Different Solvents. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 49-56.	8.0	42
22	A ternary sensor system based on pyrene derivative-SDS assemblies-Cu ²⁺ displaying dual responsive signals for fast detection of arginine and lysine in aqueous solution. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2016, 314, 66-74.	3.9	41
23	A surfactant-modulated fluorescent sensor with pattern recognition capability: sensing and discriminating multiple heavy metal ions in aqueous solution. <i>Journal of Materials Chemistry A</i> , 2014, 2, 18488-18496.	10.3	38
24	Dual-Mode Photonic Sensor Array for Detecting and Discriminating Hydrazine and Aliphatic Amines. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 11084-11093.	8.0	38
25	Molecular engineered silica surfaces with an assembled anthracene monolayer as a fluorescent sensor for organic copper(II) salts. <i>Applied Surface Science</i> , 2007, 253, 4123-4131.	6.1	37
26	Flexible and Transparent Oligothiophene- <i>o</i> -Carborane-Containing Hybrid Films for Nonlinear Optical Limiting Based on Efficient Two-Photon Absorption. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 28985-28995.	8.0	36
27	Preparation and nitromethane sensing properties of chitosan thin films containing pyrene and β -cyclodextrin units. <i>Thin Solid Films</i> , 2003, 440, 255-260.	1.8	33
28	Synthesis, optical properties and explosive sensing performances of a series of novel π -conjugated aromatic end-capped oligothiophenes. <i>Journal of Hazardous Materials</i> , 2013, 246-247, 52-60.	12.4	33
29	Preparation of novel organometallic derivatives of cholesterol and their gel-formation properties. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2010, 362, 127-134.	4.7	32
30	Sensing performance enhancement via chelating effect: A novel fluorescent film chemosensor for copper ions. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2007, 186, 143-150.	3.9	31
31	A New Strategy for Designing Conjugated Polymer-Based Fluorescence Sensing Films via Introduction of Conformation Controllable Side Chains. <i>Macromolecules</i> , 2011, 44, 703-710.	4.8	30
32	Fluorescent Ensemble Based on Bispyrene Fluorophore and Surfactant Assemblies: Sensing and Discriminating Proteins in Aqueous Solution. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 22487-22496.	8.0	30
33	A self-adaptive optical flow method for the moving object detection in the video sequences. <i>Optik</i> , 2014, 125, 5690-5694.	2.9	29
34	Twisted intra-molecular electron transfer phenomenon of dansyl immobilized on chitosan film and its sensing property to the composition of ethanol-water mixtures. <i>Thin Solid Films</i> , 2005, 478, 318-325.	1.8	28
35	Fluorescent film sensors based on SAMs of pyrene derivatives for detecting nitroaromatics in aqueous solutions. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012, 97, 31-37.	3.9	28
36	Fluorescent Ensemble Sensors and Arrays Based on Surfactant Aggregates Encapsulating Pyrene-Derived Fluorophores for Differentiation Applications. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 18395-18412.	8.0	28

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37	Dansyl-based fluorescent film sensor for nitroaromatics in aqueous solution. <i>Journal Physics D: Applied Physics</i> , 2006, 39, 5097-5102.	2.8	27
38	Surfactant Aggregates Encapsulating and Modulating: An Effective Way to Generate Selective and Discriminative Fluorescent Sensors. <i>Langmuir</i> , 2019, 35, 326-341.	3.5	27
39	Unambiguous Discrimination and Detection of Controlled Chemical Vapors by a Film-Based Fluorescent Sensor Array. <i>Advanced Materials Technologies</i> , 2019, 4, 1800644.	5.8	27
40	Single-Benzene-Based Solvatochromic Chromophores: Color-Tunable and Bright Fluorescence in the Solid and Solution States. <i>Chemistry - A European Journal</i> , 2019, 25, 16732-16739.	3.3	26
41	Fluorescence behaviors of 5-dimethylamino-1-naphthalene-sulfonyl-functionalized self-assembled monolayer on glass wafer surface and its sensing properties for nitrobenzene. <i>Thin Solid Films</i> , 2007, 515, 3112-3119.	1.8	25
42	A pyrene-based fluorescent sensor for ratiometric detection of heparin and its complex with heparin for reversed ratiometric detection of protamine in aqueous solution. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017, 170, 198-205.	3.9	24
43	Dual-Phase Emission AIEgen with ICT Properties for VOC Chromic Sensing. <i>Analytical Chemistry</i> , 2021, 93, 8501-8507.	6.5	24
44	A novel pyrene-based film: Preparation, optical properties and sensitive detection of organic copper(II) salts. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2007, 188, 351-357.	3.9	23
45	A dansyl-based fluorescent film: Preparation and sensitive detection of nitroaromatics in aqueous phase. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2008, 197, 226-231.	3.9	23
46	Immobilization of pyrene via diethylenetriamine on quartz plate surface for recognition of dicarboxylic acids. <i>Applied Surface Science</i> , 2006, 252, 3884-3893.	6.1	22
47	Selective sensing of copper and mercury ions with pyrene-functionalized fluorescent film sensor containing a hydrophilic spacer. <i>Applied Surface Science</i> , 2013, 273, 542-548.	6.1	22
48	Creation of Reduced Graphene Oxide Based Field Effect Transistors and Their Utilization in the Detection and Discrimination of Nucleoside Triphosphates. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 10718-10726.	8.0	21
49	Discrimination of Metalloproteins by a Mini Sensor Array Based on Bispyrene Fluorophore/Surfactant Aggregate Ensembles. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 35650-35659.	8.0	21
50	Film-based fluorescence sensing: a "chemical nose" for nicotine. <i>Chemical Communications</i> , 2019, 55, 12679-12682.	4.1	21
51	Surfactant assemblies encapsulating fluorescent probes as selective and discriminative sensors for metal ions. <i>Coordination Chemistry Reviews</i> , 2021, 432, 213696.	18.8	21
52	A Quinolien-Containing Conjugated Polymer-Based Sensing Platform for Amino Acids. <i>Macromolecules</i> , 2011, 44, 7096-7099.	4.8	20
53	A single discriminative sensor based on supramolecular self-assemblies of an amphiphilic cholic acid-modified fluorophore for identifying multiple proteins. <i>Sensors and Actuators B: Chemical</i> , 2018, 263, 336-346.	7.8	20
54	Surface functionalization of mesoporous silica nanoparticles with pyronine derivative for selective detection of hydrogen sulfide in aqueous solution. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 586, 124194.	4.7	20

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55	Cholesterol modified OPE functionalized film: fabrication, fluorescence behavior and sensing performance. <i>Journal of Materials Chemistry</i> , 2012, 22, 7529.	6.7	18
56	Fluorescent ensemble based on dansyl derivative/SDS assemblies as selective sensor for Asp and Glu in aqueous solution. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2017, 333, 56-62.	3.9	18
57	Single-system based discriminative optical sensors: different strategies and versatile applications. <i>Analyst, The</i> , 2018, 143, 3775-3788.	3.5	18
58	Squaraine-hydrazine adducts for fast and colorimetric detection of aldehydes in aqueous media. <i>Sensors and Actuators B: Chemical</i> , 2019, 292, 88-93.	7.8	18
59	Dual-state efficient chromophore with pH-responsive and solvatofluorochromic properties based on an asymmetric single benzene framework. <i>Chemical Communications</i> , 2021, 57, 4011-4014.	4.1	17
60	Luminescence of ferrocene-modified pyrene derivatives for turn-on sensing of Cu ²⁺ and anions. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017, 184, 30-37.	3.9	16
61	Selective turn-on sensing of Cu ²⁺ and Cl ⁻ by a ferrocene-modified pyrene derivative. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2019, 374, 131-137.	3.9	16
62	Probing the Effects of Cholesterol on Pyrene-Functionalized Interfacial Adlayers. <i>Langmuir</i> , 2007, 23, 11042-11050.	3.5	15
63	A single probe-based sensor array for fingerprinting biothiols in serum and urine via surfactant modulation strategy. <i>Sensors and Actuators B: Chemical</i> , 2019, 301, 127144.	7.8	15
64	Selectivity via insertion: Detection of dicarboxylic acids in water by a new film chemosensor with enhanced properties. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2005, 175, 207-213.	3.9	14
65	Fluorescence and electrochemistry studies of pyrene-functionalized surface adlayers to probe the microenvironment formed by cholesterol. <i>Electrochimica Acta</i> , 2008, 53, 6704-6713.	5.2	14
66	A simple fluorophore/surfactant ensemble as single discriminative sensor platform: Identifying multiple metal ions in aqueous solution. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2016, 328, 1-9.	3.9	13
67	Surfactant modulation effect on the fluorescence emission of a dual-fluorophore: Realizing a single discriminative sensor for identifying different proteins in aqueous solutions. <i>Sensors and Actuators B: Chemical</i> , 2019, 295, 168-178.	7.8	13
68	Fluorescent film sensor for copper ion based on an assembled monolayer of pyrene moieties. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2011, 79, 437-442.	3.9	12
69	Fabrication of a Novel Cholic Acid Modified OPE-Based Fluorescent Film and Its Sensing Performances to Inorganic Acids in Acetone. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 6935-6941.	8.0	12
70	Array-Based Discriminative Optical Biosensors for Identifying Multiple Proteins in Aqueous Solution and Biofluids. <i>Frontiers in Chemistry</i> , 2020, 8, 572234.	3.6	12
71	Fluorescent binary ensemble with pattern recognition ability for identifying multiple metalloproteins with applications in serum and urine. <i>RSC Advances</i> , 2017, 7, 50097-50105.	3.6	11
72	A dual-chromophore-based cross-reactive fluorescent sensor for efficient discrimination of multiple anionic surfactants. <i>Sensors and Actuators B: Chemical</i> , 2021, 331, 129408.	7.8	11

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73	Imidazolium-Modified Bispyrene-Based Fluorescent Aggregates for Discrimination of Multiple Anions in Aqueous Solution. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 32706-32718.	8.0	10
74	Sensing Performances of Oligosilane Functionalized Fluorescent Film to Nitrobenzene in Aqueous Solution. <i>Sensor Letters</i> , 2009, 7, 1141-1146.	0.4	9
75	Enhanced two-photon absorption of sandwich-like coordination complexes based on squaraine and metallomacrocyclic derivatives. <i>Dyes and Pigments</i> , 2021, 193, 109487.	3.7	8
76	Rapid and colorimetric evaluation of G-series nerve agents and simulants using the squaraine-ethanolamine adducts. <i>Dyes and Pigments</i> , 2022, 197, 109870.	3.7	8
77	Fabrication and humidity sensing performance studies of a fluorescent film based on a cholesteryl derivative of perylene bisimide. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2016, 165, 145-149.	3.9	7
78	A minimalist ratiometric fluorescent sensor based on non-covalent ternary platform for sensing H ₂ S in aqueous solution and serum. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 616, 126299.	4.7	7
79	Rigid Bay-Conjugated Perylene Bisimide Rotors: Solvent-Induced Excited-State Symmetry Breaking and Resonance-Enhanced Two-Photon Absorption. <i>Journal of Physical Chemistry B</i> , 2022, 126, 4939-4947.	2.6	7
80	Mesoporous silica nanoparticles-based fluorescent mini sensor array with dual emission for discrimination of biothiols. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 606, 125433.	4.7	6
81	Resonance-Enhanced Two-Photon Absorption and Optical Power Limiting Properties of Three-Dimensional Perylene Bisimide Derivatives. <i>Journal of Physical Chemistry B</i> , 2021, 125, 11540-11547.	2.6	6
82	Pyrene-functionalized mesoporous silica as a fluorescent nanosensor for selective detection of Hg ²⁺ in aqueous solution. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 637, 128269.	4.7	6
83	A triphenylamine-based Pt(II) metallacage <i>via</i> coordination-driven self-assembly for nonlinear optical power limiting. <i>Journal of Materials Chemistry C</i> , 2022, 10, 10429-10438.	5.5	5
84	A simple sensor ensemble-based chemical tongue for powerful fingerprint identification of multiple thiols and juice powder. <i>Sensors and Actuators B: Chemical</i> , 2021, 337, 129780.	7.8	4
85	Monolayer Assembly of Pyrene on Glass Plate Surface and Its Selective Sensing Performances to Organic Copper (II) Salts. <i>Acta Physico-chimica Sinica</i> , 2007, 23, 1839-1845.	0.6	2
86	Non-covalent binary sensing platform for ratiometric and colorimetric detection of sulfide anion in aqueous solution and human urine. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2019, 383, 111995.	3.9	1