Liang Feng

List of Publications by Year
in descending order

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		87723	98622
85	4,709	38	67
papers	citations	h-index	g-index

88	88	88	5686
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	An optoelectronic nose for the detection of toxic gases. Nature Chemistry, 2009, 1, 562-567.	6.6	420
2	A Simple and Highly Sensitive Colorimetric Detection Method for Gaseous Formaldehyde. Journal of the American Chemical Society, 2010, 132, 4046-4047.	6.6	237
3	Rapid detection of Cr(VI) ions based on cobalt(II)-doped carbon dots. Biosensors and Bioelectronics, 2017, 87, 46-52.	5.3	222
4	Discrimination of Complex Mixtures by a Colorimetric Sensor Array: Coffee Aromas. Analytical Chemistry, 2010, 82, 2067-2073.	3.2	217
5	A colorimetric sensor array for identification of toxic gases below permissible exposure limits. Chemical Communications, 2010, 46, 2037.	2.2	203
6	Colorimetric Sensor Array for Determination and Identification of Toxic Industrial Chemicals. Analytical Chemistry, 2010, 82, 9433-9440.	3.2	200
7	Highly luminescent N, S- Co-doped carbon dots and their direct use as mercury(II) sensor. Analytica Chimica Acta, 2015, 890, 134-142.	2.6	153
8	BODIPY-Based Fluorometric Sensor for the Simultaneous Determination of Cys, Hcy, and GSH in Human Serum. ACS Applied Materials & Interfaces, 2015, 7, 5907-5914.	4.0	150
9	Cu₂O nanorods modified by reduced graphene oxide for NH₃ sensing at room temperature. Journal of Materials Chemistry A, 2015, 3, 1174-1181.	5.2	135
10	Additive-Free Synthesis of In₂O₃ Cubes Embedded into Graphene Sheets and Their Enhanced NO₂ Sensing Performance at Room Temperature. ACS Applied Materials & Interfaces, 2014, 6, 21093-21100.	4.0	120
11	The calibration of cellphone camera-based colorimetric sensor array and its application in the determination of glucose in urine. Biosensors and Bioelectronics, 2015, 74, 1029-1037.	5.3	111
12	Hierarchical Ordered Dualâ€Mesoporous Polypyrrole/Graphene Nanosheets as Biâ€Functional Active Materials for Highâ€Performance Planar Integrated System of Microâ€Supercapacitor and Gas Sensor. Advanced Functional Materials, 2020, 30, 1909756.	7.8	106
13	Enhancement of sensitivity of paper-based sensor array for the identification of heavy-metal ions. Analytica Chimica Acta, 2013, 780, 74-80.	2.6	81
14	The fabrication and characterization of a formaldehyde odor sensor using molecularly imprinted polymers. Journal of Colloid and Interface Science, 2005, 284, 378-382.	5.0	80
15	Density Gradient Strategy for Preparation of Broken In₂O₃ Microtubes with Remarkably Selective Detection of Triethylamine Vapor. ACS Applied Materials & Interfaces, 2018, 10, 27131-27140.	4.0	80
16	Biosensor for the determination of sorbitol based on molecularly imprinted electrosynthesized polymers. Biosensors and Bioelectronics, 2004, 19, 1513-1519.	5.3	79
17	Needle-Shaped WO₃ Nanorods for Triethylamine Gas Sensing. ACS Applied Nano Materials, 2020, 3, 9046-9054.	2.4	77
18	A fluorometric paper-based sensor array for the discrimination of heavy-metal ions. Talanta, 2013, 108, 103-108.	2.9	75

#	Article	IF	Citations
19	Rational interaction between the aimed gas and oxide surfaces enabling high-performance sensor: The case of acidic Î±-MoO3 nanorods for selective detection of triethylamine. Journal of Alloys and Compounds, 2019, 783, 574-582.	2.8	74
20	A Method for Removing Self-Assembled Monolayers on Gold. Langmuir, 2008, 24, 8707-8710.	1.6	73
21	Efficient syntheses of (â^')-crinine and (â^')-aspidospermidine, and the formal synthesis of (â^')-minfiensine by enantioselective intramolecular dearomative cyclization. Chemical Science, 2017, 8, 6247-6256.	3.7	71
22	A colorimetric sensor array of porous pigments. Analyst, The, 2009, 134, 2453.	1.7	69
23	Flexible Ti₃C₂T_x MXene/PANI/Bacterial Cellulose Aerogel for e-Skins and Gas Sensing. ACS Applied Materials & Interfaces, 2021, 13, 45987-45994.	4.0	66
24	Electrochemical/visual dual-readout aptasensor for Ochratoxin A detection integrated into a miniaturized paper-based analytical device. Biosensors and Bioelectronics, 2021, 180, 113146.	5.3	63
25	A Wearable Toxic Gasâ€Monitoring Device Based on Triboelectric Nanogenerator for Selfâ€Powered Aniline Early Warning. Advanced Materials Technologies, 2020, 5, 1901087.	3.0	62
26	Molecularly Imprinted TiO2Thin Film by Liquid Phase Deposition for the Determination ofl-Glutamic Acid. Langmuir, 2004, 20, 1786-1790.	1.6	58
27	Sensitivity enhancement of pH indicator and its application in the evaluation of fish freshness. Talanta, 2015, 143, 127-131.	2.9	55
28	Family of Highly Luminescent Pure Ionic Copper(I) Bromide Based Hybrid Materials. ACS Applied Materials & Interfaces, 2019, 11, 17513-17520.	4.0	54
29	Self-assembled In2O3 truncated octahedron string and its sensing properties for formaldehyde. Sensors and Actuators B: Chemical, 2014, 201, 228-233.	4.0	53
30	Hydrogel-Based Gas Sensors for NO₂ and NH₃. ACS Sensors, 2020, 5, 772-780.	4.0	52
31	BODIPY-based fluorometric sensor array for the highly sensitive identification of heavy-metal ions. Analytica Chimica Acta, 2013, 775, 93-99.	2.6	50
32	Functionalization of Carbonaceous Nanodots from Mn^{II}â€Coordinating Functional Knots. Chemistry - A European Journal, 2015, 21, 14843-14850.	1.7	50
33	Design and preparation of hollow NiO sphere- polyaniline composite for NH3 gas sensing at room temperature. Sensors and Actuators B: Chemical, 2021, 344, 130179.	4.0	48
34	A novel electronic nose based on porous In2O3 microtubes sensor array for the discrimination of VOCs. Biosensors and Bioelectronics, 2015, 64, 547-553.	5.3	47
35	Organic-inorganic manganese (II) halide hybrids based paper sensor for the fluorometric determination of pesticide ferbam. Sensors and Actuators B: Chemical, 2019, 297, 126701.	4.0	47
36	Colorimetric determination of copper(II) ions by filtration on solâ€“gel membrane doped with diphenylcarbazide. Talanta, 2011, 84, 913-917.	2.9	42

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37	Colorimetric sensing of anions in water using ratiometric indicator-displacement assay. Analytica Chimica Acta, 2012, 743, 1-8.	2.6	41
38	BODIPY-based self-assembled nanoparticles as fluorescence turn-on sensor for the selective detection of zinc in human hair. Biosensors and Bioelectronics, 2016, 85, 515-521.	5.3	39
39	Assessment of the inhibitory effects of pyrethroids against human carboxylesterases. Toxicology and Applied Pharmacology, 2017, 321, 48-56.	1.3	39
40	Discrimination of Trace Heavyâ€Metal Ions by Filtration on Solâ€“Gel Membrane Arrays. Chemistry - A European Journal, 2011, 17, 1101-1104.	1.7	38
41	NH₃ Sensor Based on 2D Wormlike Polypyrrole/Graphene Heterostructures for a Self-Powered Integrated System. ACS Applied Materials & Interfaces, 2020, 12, 38674-38681.	4.0	38
42	Target-Responsive Smart Nanomaterials via a Auâ€“S Binding Encapsulation Strategy for Electrochemical/Colorimetric Dual-Mode Paper-Based Analytical Devices. Analytical Chemistry, 2022, 94, 2569-2577.	3.2	38
43	Intraparticle FRET of Mn(<scp>ii</scp>)-doped carbon dots and its application in discrimination of volatile organic compounds. Nanoscale, 2016, 8, 17190-17195.	2.8	34
44	Colorimetric filtrations of metal chelate precipitations for the quantitative determination of nickel(ii) and lead(ii). Analyst, The, 2011, 136, 4197.	1.7	32
45	An optical reflected device using a molecularly imprinted polymer film sensor. Analytica Chimica Acta, 2009, 653, 103-108.	2.6	30
46	Progress in Paper-based Colorimetric Sensor Array. Chinese Journal of Analytical Chemistry, 2020, 48, 1448-1457.	0.9	29
47	Uncovering the pKadependent fluorescence quenching of carbon dots induced by chlorophenols. Nanoscale, 2015, 7, 6348-6355.	2.8	28
48	The BODIPY-Based Chemosensor for Fluorometric/Colorimetric Dual Channel Detection of RDX and PA. Analytical Chemistry, 2019, 91, 13675-13680.	3.2	28
49	Colorimetric and â€œturn-onâ€•fluorescent determination of Cu2+ ions based on rhodamineâ€“quinoline derivative. Analyst, The, 2012, 137, 5829.	1.7	26
50	High-performance fluorescent sensor based on CsPbBr3 quantum dots for rapid analysis of total polar materials in edible oils. Sensors and Actuators B: Chemical, 2021, 344, 130193.	4.0	26
51	A full-set and self-powered ammonia leakage monitor system based on CNTs-PPy and triboelectric nanogenerator for zero-carbon vessels. Nano Energy, 2022, 98, 107271.	8.2	26
52	A Naturally Occurring Isoform-Specific Probe for Highly Selective and Sensitive Detection of Human Cytochrome P450 3A5. Journal of Medicinal Chemistry, 2017, 60, 3804-3813.	2.9	25
53	A paper-based microfluidic analytical device combined with home-made SPE column for the colorimetric determination of copper(II) ion. Talanta, 2019, 204, 518-524.	2.9	25
54	Chemoselectivity of Pristine Cellulose Nanocrystal Films Driven by Carbohydrateâ€“Carbohydrate Interactions. ACS Applied Materials & Interfaces, 2019, 11, 13114-13122.	4.0	24

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55	A Î¼PAD for simultaneous monitoring of Cu2+, Fe2+ and free chlorine in drinking water. Sensors and Actuators B: Chemical, 2019, 293, 350-356.	4.0	23
56	Postage stamp-sized array sensor for the sensitive screening test of heavy-metal ions. Analyst, The, 2014, 139, 4887.	1.7	22
57	Colorimetric sensors with different reactivity for the quantitative determination of cysteine, homocysteine and glutathione in a mixture. RSC Advances, 2015, 5, 13042-13045.	1.7	22
58	Polyaniline-Reduced Graphene Oxide Nanosheets for Room Temperature NH₃ Detection. ACS Applied Nano Materials, 2021, 4, 5263-5272.	2.4	22
59	An SPE-assisted BODIPY fluorometric paper sensor for the highly selective and sensitive determination of Cd2+ in complex sample: rice. Analyst, The, 2014, 139, 3146.	1.7	19
60	A highly sensitive and fast responsive semiconductor metal oxide detector based on In2O3 nanoparticle film for portable gas chromatograph. Sensors and Actuators B: Chemical, 2015, 216, 511-517.	4.0	19
61	Specific detection and discrimination of dithiocarbamates using CTAB-encapsulated fluorescent copper nanoclusters. Talanta, 2020, 210, 120627.	2.9	19
62	A versatile fluorimetric chemosensor for mercury (II) assay based on carbon nanodots. Sensors and Actuators B: Chemical, 2018, 265, 293-301.	4.0	17
63	Supersaturation-controlled synthesis of diverse In₂O₃morphologies and their shape-dependent sensing performance. CrystEngComm, 2015, 17, 2989-2995.	1.3	15
64	Inkjet-printed paper-based sensor array for highly accurate pH sensing. Analytica Chimica Acta, 2021, 1154, 338275.	2.6	15
65	Recent Progresses in Optical Colorimetric/Fluorometric Sensor Array. Chinese Journal of Analytical Chemistry, 2013, 41, 795-802.	0.9	14
66	An array sensor consisting of a single indicator with multiple concentrations and its application in ion discrimination. Chemical Communications, 2014, 50, 15389-15392.	2.2	14
67	2D ZIF-derived ZnO nanosheetsâ€”an example for improving semiconductor metal oxide detector performance in gas chromatography through material design strategy. Sensors and Actuators B: Chemical, 2020, 307, 127580.	4.0	13
68	A novel wearable TEA sensor based on PDDA-functionalized graphene/polyaniline composite self-powered by a triboelectric nanogenerator. Sensors and Actuators B: Chemical, 2021, 345, 130308.	4.0	13
69	Scalable fabrication of in-plane microscale self-powered integrated systems for fast-response and highly selective dual-channel gas detection. Nano Energy, 2021, 88, 106253.	8.2	13
70	Microwave-assisted solâ€“gel synthesis for molecular imprinting. Analytical and Bioanalytical Chemistry, 2010, 396, 1607-1612.	1.9	11
71	Using ratiometric indicator-displacement assays in semi-quantitative colorimetric determination of chloride, bromide, and iodide anions. Analyst, The, 2011, 136, 5025.	1.7	11
72	The BODIPY-based chemosensor for the fluorometric determination of organochlorine pesticide dicofol. Food Chemistry, 2022, 370, 131033.	4.2	11

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73	Synthesis and crystal structure of new supramolecular adducts of [PtCl6]2â^' with cucurbit [7] uril: [(H3O)2 (PtCl6)]3 (C42H42N28O14)2Â·H2O. Wuhan University Journal of Natural Sciences, 2004, 9, 99-101.	0.2	10
74	Multiple morphologies of the aggregates from selfâ€assembly of diblock copolymer with relatively long coronaâ€forming block in dilute aqueous solution. Journal of Polymer Science, Part B: Polymer Physics, 2010, 48, 364-371.	2.4	9
75	Exploring Solvent-Related Reactions and Corresponding Band Gap Tuning Strategies for Carbon Nanodots Based on Solvothermal Synthesis. Journal of Physical Chemistry Letters, 2020, 11, 10439-10445.	2.1	9
76	Chiroptical aggregates from block copolymer bearing amino acid moieties in aqueous solution. Journal of Polymer Science, Part B: Polymer Physics, 2009, 47, 1345-1355.	2.4	8
77	A Novel Virus Detection Strategy Enabled by TR512-Peptide-Based Bioorthogonal Capture and Enrichment of Preamplified Nucleic Acid. Analytical Chemistry, 2022, 94, 5591-5598.	3.2	8
78	An Electronic Nose Based on Copper Oxide Heterojunctions for Rapid Assessment of Liquor. Chinese Journal of Analytical Chemistry, 2019, 47, e19073-e19080.	0.9	7
79	A mesoporous Ni₃N/NiO composite with a coreâ€“shell structure for room temperature, selective and sensitive NO₂ gas sensing. RSC Advances, 2016, 6, 42917-42922.	1.7	6
80	Fluorometric determination of ziram using CsPbBr3 quantum dots. Mikrochimica Acta, 2021, 188, 390.	2.5	6
81	Existence of heme oxygenase-carbon monoxide-cyclic guanosine monophosphate pathway in human trabecular meshwork cellsin vitro. Journal of Huazhong University of Science and Technology [Medical Sciences], 2004, 24, 173-177.	1.0	2
82	The SPE-assisted europium (III) based complex fluorometric assay for the highly selective and sensitive detection of manganese (II) in water. Talanta, 2020, 210, 120633.	2.9	2
83	Synthesis, structure and antitumor activities of [Ni(dien)2][Ni(CN)4] complex. Wuhan University Journal of Natural Sciences, 2004, 9, 229-233.	0.2	1
84	Using ratiometric indicator-displacement-assay in semi-quantitative colorimetric determination of tetracyclines. Chinese Journal of Analytical Chemistry, 2022, 50, 100088.	0.9	1
85	NMR study of hydroxyl-substituted macrocyclic hexaamine in solution. Wuhan University Journal of Natural Sciences, 2003, 8, 105-106.	0.2	0