

Liang Feng

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

84
papers

3,568
citations

33
h-index

58
g-index

88
ext. papers

4,108
ext. citations

7
avg, IF

5.68
L-index

#	Paper	IF	Citations
84	An optoelectronic nose for the detection of toxic gases. <i>Nature Chemistry</i> , 2009 , 1, 562-7	17.6	363
83	A simple and highly sensitive colorimetric detection method for gaseous formaldehyde. <i>Journal of the American Chemical Society</i> , 2010 , 132, 4046-7	16.4	209
82	Discrimination of complex mixtures by a colorimetric sensor array: coffee aromas. <i>Analytical Chemistry</i> , 2010 , 82, 2067-73	7.8	197
81	A colorimetric sensor array for identification of toxic gases below permissible exposure limits. <i>Chemical Communications</i> , 2010 , 46, 2037-9	5.8	179
80	Colorimetric sensor array for determination and identification of toxic industrial chemicals. <i>Analytical Chemistry</i> , 2010 , 82, 9433-40	7.8	176
79	Rapid detection of Cr(VI) ions based on cobalt(II)-doped carbon dots. <i>Biosensors and Bioelectronics</i> , 2017 , 87, 46-52	11.8	162
78	BODIPY-based fluorometric sensor for the simultaneous determination of Cys, Hcy, and GSH in human serum. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 5907-14	9.5	137
77	Highly luminescent N, S- Co-doped carbon dots and their direct use as mercury(II) sensor. <i>Analytica Chimica Acta</i> , 2015 , 890, 134-42	6.6	116
76	Cu ₂ O nanorods modified by reduced graphene oxide for NH ₃ sensing at room temperature. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 1174-1181	13	110
75	Additive-free synthesis of In ₂ O ₃ tubes embedded into graphene sheets and their enhanced NO ₂ sensing performance at room temperature. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 21093-100	9.5	100
74	The calibration of cellphone camera-based colorimetric sensor array and its application in the determination of glucose in urine. <i>Biosensors and Bioelectronics</i> , 2015 , 74, 1029-37	11.8	88
73	The fabrication and characterization of a formaldehyde odor sensor using molecularly imprinted polymers. <i>Journal of Colloid and Interface Science</i> , 2005 , 284, 378-82	9.3	73
72	Enhancement of sensitivity of paper-based sensor array for the identification of heavy-metal ions. <i>Analytica Chimica Acta</i> , 2013 , 780, 74-80	6.6	71
71	Biosensor for the determination of sorbitol based on molecularly imprinted electrosynthesized polymers. <i>Biosensors and Bioelectronics</i> , 2004 , 19, 1513-9	11.8	70
70	A fluorometric paper-based sensor array for the discrimination of heavy-metal ions. <i>Talanta</i> , 2013 , 108, 103-8	6.2	66
69	A method for removing self-assembled monolayers on gold. <i>Langmuir</i> , 2008 , 24, 8707-10	4	64
68	A colorimetric sensor array of porous pigments. <i>Analyst, The</i> , 2009 , 134, 2453-7	5	62

67	Density Gradient Strategy for Preparation of Broken InO Microtubes with Remarkably Selective Detection of Triethylamine Vapor. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 27131-27140	9.5	59
66	Hierarchical Ordered Dual-Mesoporous Polypyrrole/Graphene Nanosheets as Bi-Functional Active Materials for High-Performance Planar Integrated System of Micro-Supercapacitor and Gas Sensor. <i>Advanced Functional Materials</i> , 2020 , 30, 1909756	15.6	55
65	Molecularly imprinted TiO ₂ thin film by liquid phase deposition for the determination of L-glutamic acid. <i>Langmuir</i> , 2004 , 20, 1786-90	4	55
64	Efficient syntheses of (-)-crinine and (-)-aspidospermidine, and the formal synthesis of (-)-minfiensine by enantioselective intramolecular dearomative cyclization. <i>Chemical Science</i> , 2017 , 8, 6247-6256	9.4	53
63	Rational interaction between the aimed gas and oxide surfaces enabling high-performance sensor: The case of acidic BiMoO ₃ nanorods for selective detection of triethylamine. <i>Journal of Alloys and Compounds</i> , 2019 , 783, 574-582	5.7	49
62	Self-assembled In ₂ O ₃ truncated octahedron string and its sensing properties for formaldehyde. <i>Sensors and Actuators B: Chemical</i> , 2014 , 201, 228-233	8.5	44
61	BODIPY-based fluorometric sensor array for the highly sensitive identification of heavy-metal ions. <i>Analytica Chimica Acta</i> , 2013 , 775, 93-9	6.6	44
60	A novel electronic nose based on porous In ₂ O ₃ microtubes sensor array for the discrimination of VOCs. <i>Biosensors and Bioelectronics</i> , 2015 , 64, 547-53	11.8	41
59	A Wearable Toxic Gas-Monitoring Device Based on Triboelectric Nanogenerator for Self-Powered Aniline Early Warning. <i>Advanced Materials Technologies</i> , 2020 , 5, 1901087	6.8	40
58	Colorimetric sensing of anions in water using ratiometric indicator-displacement assay. <i>Analytica Chimica Acta</i> , 2012 , 743, 1-8	6.6	37
57	Discrimination of trace heavy-metal ions by filtration on sol-gel membrane arrays. <i>Chemistry - A European Journal</i> , 2011 , 17, 1101-4	4.8	36
56	Sensitivity enhancement of pH indicator and its application in the evaluation of fish freshness. <i>Talanta</i> , 2015 , 143, 127-131	6.2	35
55	Needle-Shaped WO ₃ Nanorods for Triethylamine Gas Sensing. <i>ACS Applied Nano Materials</i> , 2020 , 3, 9046-9054	5.8	35
54	Assessment of the inhibitory effects of pyrethroids against human carboxylesterases. <i>Toxicology and Applied Pharmacology</i> , 2017 , 321, 48-56	4.6	34
53	Functionalization of Carbonaceous Nanodots from Mn(II) -Coordinating Functional Knots. <i>Chemistry - A European Journal</i> , 2015 , 21, 14843-50	4.8	33
52	Colorimetric determination of copper(II) ions by filtration on sol-gel membrane doped with diphenylcarbazine. <i>Talanta</i> , 2011 , 84, 913-7	6.2	33
51	BODIPY-based self-assembled nanoparticles as fluorescence turn-on sensor for the selective detection of zinc in human hair. <i>Biosensors and Bioelectronics</i> , 2016 , 85, 515-521	11.8	33
50	Uncovering the pKa dependent fluorescence quenching of carbon dots induced by chlorophenols. <i>Nanoscale</i> , 2015 , 7, 6348-55	7.7	28

49	An optical reflected device using a molecularly imprinted polymer film sensor. <i>Analytica Chimica Acta</i> , 2009 , 653, 103-8	6.6	28
48	Intraparticle FRET of Mn(ii)-doped carbon dots and its application in discrimination of volatile organic compounds. <i>Nanoscale</i> , 2016 , 8, 17190-17195	7.7	27
47	Colorimetric filtrations of metal chelate precipitations for the quantitative determination of nickel(II) and lead(II). <i>Analyst, The</i> , 2011 , 136, 4197-203	5	27
46	Electrochemical/visual dual-readout aptasensor for Ochratoxin A detection integrated into a miniaturized paper-based analytical device. <i>Biosensors and Bioelectronics</i> , 2021 , 180, 113146	11.8	27
45	Colorimetric and "turn-on" fluorescent determination of Cu ²⁺ ions based on rhodamine-quinoline derivative. <i>Analyst, The</i> , 2012 , 137, 5829-33	5	26
44	Organic-inorganic manganese (II) halide hybrids based paper sensor for the fluorometric determination of pesticide ferbam. <i>Sensors and Actuators B: Chemical</i> , 2019 , 297, 126701	8.5	25
43	Family of Highly Luminescent Pure Ionic Copper(I) Bromide Based Hybrid Materials. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 17513-17520	9.5	25
42	Hydrogel-Based Gas Sensors for NO and NH. <i>ACS Sensors</i> , 2020 , 5, 772-780	9.2	24
41	Colorimetric sensors with different reactivity for the quantitative determination of cysteine, homocysteine and glutathione in a mixture. <i>RSC Advances</i> , 2015 , 5, 13042-13045	3.7	21
40	Postage stamp-sized array sensor for the sensitive screening test of heavy-metal ions. <i>Analyst, The</i> , 2014 , 139, 4887-93	5	20
39	The BODIPY-Based Chemosensor for Fluorometric/Colorimetric Dual Channel Detection of RDX and PA. <i>Analytical Chemistry</i> , 2019 , 91, 13675-13680	7.8	18
38	A Naturally Occurring Isoform-Specific Probe for Highly Selective and Sensitive Detection of Human Cytochrome P450 3A5. <i>Journal of Medicinal Chemistry</i> , 2017 , 60, 3804-3813	8.3	17
37	Chemoselectivity of Pristine Cellulose Nanocrystal Films Driven by Carbohydrate-Carbohydrate Interactions. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 13114-13122	9.5	17
36	NH Sensor Based on 2D Wormlike Polypyrrole/Graphene Heterostructures for a Self-Powered Integrated System. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 38674-38681	9.5	17
35	A highly sensitive and fast responsive semiconductor metal oxide detector based on In ₂ O ₃ nanoparticle film for portable gas chromatograph. <i>Sensors and Actuators B: Chemical</i> , 2015 , 216, 511-517	8.5	16
34	An SPE-assisted BODIPY fluorometric paper sensor for the highly selective and sensitive determination of Cd ²⁺ in complex sample: rice. <i>Analyst, The</i> , 2014 , 139, 3146-53	5	16
33	A paper-based microfluidic analytical device combined with home-made SPE column for the colorimetric determination of copper(II) ion. <i>Talanta</i> , 2019 , 204, 518-524	6.2	14
32	Supersaturation-controlled synthesis of diverse In ₂ O ₃ morphologies and their shape-dependent sensing performance. <i>CrystEngComm</i> , 2015 , 17, 2989-2995	3.3	14

31	Design and preparation of hollow NiO sphere- polyaniline composite for NH ₃ gas sensing at room temperature. <i>Sensors and Actuators B: Chemical</i> , 2021 , 344, 130179	8.5	14
30	An array sensor consisting of a single indicator with multiple concentrations and its application in ion discrimination. <i>Chemical Communications</i> , 2014 , 50, 15389-92	5.8	13
29	A PAD for simultaneous monitoring of Cu ²⁺ , Fe ²⁺ and free chlorine in drinking water. <i>Sensors and Actuators B: Chemical</i> , 2019 , 293, 350-356	8.5	12
28	A versatile fluorimetric chemosensor for mercury (II) assay based on carbon nanodots. <i>Sensors and Actuators B: Chemical</i> , 2018 , 265, 293-301	8.5	12
27	Progress in Paper-based Colorimetric Sensor Array. <i>Chinese Journal of Analytical Chemistry</i> , 2020 , 48, 1448-1457	1.6	11
26	Recent Progresses in Optical Colorimetric/Fluorometric Sensor Array. <i>Chinese Journal of Analytical Chemistry</i> , 2013 , 41, 795-802	1.6	11
25	Using ratiometric indicator-displacement assays in semi-quantitative colorimetric determination of chloride, bromide, and iodide anions. <i>Analyst, The</i> , 2011 , 136, 5025-9	5	11
24	Microwave-assisted sol-gel synthesis for molecular imprinting. <i>Analytical and Bioanalytical Chemistry</i> , 2010 , 396, 1607-12	4.4	11
23	Flexible TiCT MXene/PANI/Bacterial Cellulose Aerogel for e-Skins and Gas Sensing. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 45987-45994	9.5	11
22	2D ZIF-derived ZnO nanosheets—An example for improving semiconductor metal oxide detector performance in gas chromatography through material design strategy. <i>Sensors and Actuators B: Chemical</i> , 2020 , 307, 127580	8.5	10
21	Multiple morphologies of the aggregates from self-assembly of diblock copolymer with relatively long corona-forming block in dilute aqueous solution. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2010 , 48, 364-371	2.6	9
20	Chiroptical aggregates from block copolymer bearing amino acid moieties in aqueous solution. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2009 , 47, 1345-1355	2.6	8
19	Synthesis and crystal structure of new supramolecular adducts of [PtCl ₆] ²⁻ with cucurbit [7] uril: [(H ₃ O) ₂ (PtCl ₆)] ₃ (C ₄₂ H ₄₂ N ₂₈ O ₁₄) ₂ ·H ₂ O. <i>Wuhan University Journal of Natural Sciences</i> , 2004 , 9, 99-101	0.4	8
18	Specific detection and discrimination of dithiocarbamates using CTAB-encapsulated fluorescent copper nanoclusters. <i>Talanta</i> , 2020 , 210, 120627	6.2	8
17	Inkjet-printed paper-based sensor array for highly accurate pH sensing. <i>Analytica Chimica Acta</i> , 2021 , 1154, 338275	6.6	7
16	High-performance fluorescent sensor based on CsPbBr ₃ quantum dots for rapid analysis of total polar materials in edible oils. <i>Sensors and Actuators B: Chemical</i> , 2021 , 344, 130193	8.5	7
15	An Electronic Nose Based on Copper Oxide Heterojunctions for Rapid Assessment of Liquor. <i>Chinese Journal of Analytical Chemistry</i> , 2019 , 47, e19073-e19080	1.6	6
14	A mesoporous Ni ₃ N/NiO composite with a core-shell structure for room temperature, selective and sensitive NO ₂ gas sensing. <i>RSC Advances</i> , 2016 , 6, 42917-42922	3.7	6

13	Polyaniline-Reduced Graphene Oxide Nanosheets for Room Temperature NH ₃ Detection. <i>ACS Applied Nano Materials</i> , 2021 , 4, 5263-5272	5.6	5
12	Scalable fabrication of in-plane microscale self-powered integrated systems for fast-response and highly selective dual-channel gas detection. <i>Nano Energy</i> , 2021 , 88, 106253	17.1	4
11	A full-set and self-powered ammonia leakage monitor system based on CNTs-PPy and triboelectric nanogenerator for zero-carbon vessels. <i>Nano Energy</i> , 2022 , 98, 107271	17.1	4
10	Target-Responsive Smart Nanomaterials via a Au-S Binding Encapsulation Strategy for Electrochemical/Colorimetric Dual-Mode Paper-Based Analytical Devices.. <i>Analytical Chemistry</i> , 2022 ,	7.8	3
9	Exploring Solvent-Related Reactions and Corresponding Band Gap Tuning Strategies for Carbon Nanodots Based on Solvothermal Synthesis. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 10439-10445 ^{6.4}	6.4	3
8	Existence of heme oxygenase-carbon monoxide-cyclic guanosine monophosphate pathway in human trabecular meshwork cells in vitro. <i>Journal of Huazhong University of Science and Technology [Medical Sciences]</i> , 2004 , 24, 173-7		2
7	The SPE-assisted europium (III) based complex fluorometric assay for the highly selective and sensitive detection of manganese (II) in water. <i>Talanta</i> , 2020 , 210, 120633	6.2	2
6	Synthesis, structure and antitumor activities of [Ni(dien) ₂][Ni(CN) ₄] complex. <i>Wuhan University Journal of Natural Sciences</i> , 2004 , 9, 229-233	0.4	1
5	Fluorometric determination of ziram using CsPbBr quantum dots. <i>Mikrochimica Acta</i> , 2021 , 188, 390	5.8	1
4	A novel wearable TEA sensor based on PDDA-functionalized graphene/polyaniline composite self-powered by a triboelectric nanogenerator. <i>Sensors and Actuators B: Chemical</i> , 2021 , 345, 130308	8.5	1
3	The BODIPY-based chemosensor for the fluorometric determination of organochlorine pesticide dicofol. <i>Food Chemistry</i> , 2022 , 370, 131033	8.5	0
2	NMR study of hydroxyl-substituted macrocyclic hexaamine in solution. <i>Wuhan University Journal of Natural Sciences</i> , 2003 , 8, 105-106	0.4	
1	Using ratiometric indicator-displacement-assay in semi-quantitative colorimetric determination of tetracyclines. <i>Chinese Journal of Analytical Chemistry</i> , 2022 , 100088	1.6	