

# Congbin Fan

## List of Publications by Year in descending order

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96  
papers

2,819  
citations

172457

29  
h-index

214800

47  
g-index

96  
all docs

96  
docs citations

96  
times ranked

2102  
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent advances in diarylethene-based multi-responsive molecular switches. <i>Journal of Materials Chemistry C</i> , 2016, 4, 3075-3093.	5.5	201
2	A colorimetric and fluorescent sensor for Cu <sup>2+</sup> and F <sup>-</sup> based on a diarylethene with a 1,8-naphthalimide Schiff base unit. <i>Sensors and Actuators B: Chemical</i> , 2017, 239, 295-303.	7.8	154
3	Multi-addressable molecular switches based on a new diarylethene salicylal Schiff base derivative. <i>Journal of Materials Chemistry C</i> , 2013, 1, 4726.	5.5	107
4	Carbazole-based aggregation-induced emission (AIE)-active gold(I) complex: Persistent room-temperature phosphorescence, reversible mechanochromism and vapochromism characteristics. <i>Dyes and Pigments</i> , 2017, 143, 409-415.	3.7	87
5	A highly selective fluorescence sensor for Zn <sup>2+</sup> and Cu <sup>2+</sup> based on diarylethene with a piperazine-linked amidoquinoline unit. <i>Journal of Materials Chemistry C</i> , 2015, 3, 4023-4029.	5.5	83
6	Multiaddressing Fluorescence Switch Based on a New Photochromic Diarylethene with a Triazole-Linked Rhodamine B Unit. <i>Journal of Physical Chemistry C</i> , 2014, 118, 7010-7017.	3.1	79
7	A highly selective diarylethene chemosensor for colorimetric detection of CN <sup>-</sup> and fluorescent relay-detection of Al <sup>3+</sup> /Cr <sup>3+</sup> . <i>Dyes and Pigments</i> , 2018, 151, 22-27.	3.7	71
8	A highly sensitive fluorescent sensor for Al <sup>3+</sup> and Zn <sup>2+</sup> based on a diarylethene salicylhydrazide Schiff base derivative and its bioimaging in live cells. <i>New Journal of Chemistry</i> , 2016, 40, 8579-8586.	2.8	63
9	A highly sensitive fluorescent sensor for Cd <sup>2+</sup> and Zn <sup>2+</sup> based on diarylethene with a pyrene unit. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 227, 117581.	3.9	57
10	A fluorescent chemosensor for Sn <sup>2+</sup> and Cu <sup>2+</sup> based on a carbazole-containing diarylethene. <i>RSC Advances</i> , 2017, 7, 9833-9839.	3.6	55
11	A fluorescent sensor based on a diarylethene-rhodamine derivative for sequentially detecting Cu <sup>2+</sup> and arginine and its application in keypad lock. <i>Sensors and Actuators B: Chemical</i> , 2017, 247, 26-35.	7.8	51
12	Multi-addressable fluorescent switch based on a photochromic diarylethene with triazole-bridged methylquinoline group. <i>Dyes and Pigments</i> , 2014, 103, 82-88.	3.7	50
13	Diarylethene-based fluorescent and colorimetric chemosensor for the selective detection of Al <sup>3+</sup> and CN <sup>-</sup> . <i>Dyes and Pigments</i> , 2019, 164, 257-266.	3.7	50
14	Aggregation-induced emission (AIE)-active highly emissive novel carbazole-based dyes with various solid-state fluorescence and reversible mechanofluorochromism characteristics. <i>Dyes and Pigments</i> , 2019, 164, 390-397.	3.7	50
15	Enhancement of cyclization quantum yields of perfluorodiarylethenes via weak intramolecular interactions. <i>Chemical Communications</i> , 2013, 49, 8036.	4.1	49
16	A new diarylethene-derived probe for colorimetric sensing of Cu(II) and fluorometric sensing of Cu(II) and Zn(II): Photochromism and High Selectivity. <i>Sensors and Actuators B: Chemical</i> , 2018, 266, 603-613.	7.8	48
17	A highly selective and sensitive ratiometric fluorescent chemosensor for Zn <sup>2+</sup> based on diarylethene with a benzyl-linked 8-aminoquinoline-2-aminomethylpyridine unit. <i>Dyes and Pigments</i> , 2016, 126, 121-130.	3.7	45
18	A highly selective ratiometric fluorescent chemosensor for Hg <sup>2+</sup> based on a new diarylethene with a stilbene-linked terpyridine unit. <i>Dyes and Pigments</i> , 2014, 107, 38-44.	3.7	44

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19	A new fluorescent and colorimetric chemosensor for Al <sup>3+</sup> and F <sup>-</sup> /CN <sup>-</sup> based on a julolidine unit and its bioimaging in living cells. RSC Advances, 2018, 8, 31113-31120.	3.6	41
20	Bipyridine-based aggregation-induced phosphorescent emission (AIPE)-active gold(I) complex with reversible phosphorescent mechanochromism and self-assembly characteristics. Dyes and Pigments, 2018, 152, 54-59.	3.7	39
21	A new "turn-on" fluorescent chemosensor for Zn <sup>2+</sup> based on a diarylethene derivative and its practical applications. Journal of Photochemistry and Photobiology A: Chemistry, 2019, 371, 248-254.	3.9	39
22	Triphenylamine, carbazole or tetraphenylethylene-based gold(I) complexes: Tunable solid-state room-temperature phosphorescence and various mechanochromic luminescence characteristics. Dyes and Pigments, 2018, 159, 499-505.	3.7	38
23	A highly selective fluorescent sensor for Cd <sup>2+</sup> based on a new diarylethene with a 1,8-naphthyridine unit. Dyes and Pigments, 2017, 139, 208-217.	3.7	36
24	Highly sensitive and selective turn-on fluorescent sensor for dual recognition of Cu <sup>2+</sup> and CN <sup>-</sup> based on a methylquinoline derivative. Dyes and Pigments, 2018, 149, 764-773.	3.7	36
25	A diarylethene-based fluorescent chemosensor for the sequential recognition of Fe <sup>3+</sup> and cysteine. RSC Advances, 2016, 6, 34748-34753.	3.6	35
26	A highly selective fluorescent chemosensor for Fe <sup>3+</sup> based on a new diarylethene with a rhodamine 6G unit. RSC Advances, 2017, 7, 29827-29834.	3.6	34
27	Aggregation-induced emission enhancement (AIEE)-active tetraphenylethene (TPE)-based chemosensor for Hg <sup>2+</sup> with solvatochromism and cell imaging characteristics. RSC Advances, 2019, 9, 11865-11869.	3.6	34
28	Fluorescent probes for Al(III) and Cr(III) based on a photochromic diarylethene bearing a fluorescent rhodamine unit. Mikrochimica Acta, 2011, 174, 329-336.	5.0	30
29	A new photoinduced fluorescent switch based on a photochromic diarylethene with a rhodamine fluorophore. Dyes and Pigments, 2012, 94, 416-422.	3.7	30
30	A fluorescent probe for Cd <sup>2+</sup> based on a diarylethene with pyridinepiperazine-linked hydroxyquinoline group. Tetrahedron, 2016, 72, 3213-3220.	1.9	29
31	A highly selective and sensitive fluorescent chemosensor for Zn <sup>2+</sup> based on a diarylethene derivative. RSC Advances, 2017, 7, 50188-50194.	3.6	29
32	A highly selective fluorescence switch for Cu <sup>2+</sup> and Fe <sup>3+</sup> based on a new diarylethene with a triazole-linked rhodamine 6G unit. Tetrahedron, 2018, 74, 4390-4399.	1.9	28
33	A highly selective fluorescent probe for detection of Cd <sup>2+</sup> and HSO <sub>3</sub> <sup>-</sup> based on photochromic diarylethene with a triazole-bridged coumarin-quinoline group. RSC Advances, 2018, 8, 22786-22798.	3.6	27
34	A novel fluorescent sensor for Al <sup>3+</sup> and Zn <sup>2+</sup> based on a new europium complex with a 1,10-phenanthroline ligand. Journal of Rare Earths, 2021, 39, 460-468.	4.8	27
35	Novel sensitive sensors for Cu <sup>2+</sup> and optical switching of photochromic dithienylethene derivatives. Journal of Photochemistry and Photobiology A: Chemistry, 2014, 294, 44-53.	3.9	26
36	A turn-on fluorescence sensor for the highly selective detection of Al <sup>3+</sup> based on diarylethene and its application on test strips. RSC Advances, 2019, 9, 10395-10404.	3.6	26

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37	New Bifunctional Diarylethene Sensor for Multianalyte Detection and Al <sup>3+</sup> Imaging in Live Cells. ACS Omega, 2019, 4, 309-319.	3.5	26
38	Cyanobenzene-containing tetraphenylethene derivatives with aggregation-induced emission and self-recovering mechanofluorochromic characteristics. RSC Advances, 2017, 7, 43845-43848.	3.6	25
39	1,8-Naphthalimide-Based Highly Emissive Luminophors with Various Mechanofluorochromism and Aggregation-Induced Characteristics. ACS Omega, 2019, 4, 14324-14332.	3.5	25
40	A colorimetric and ratiometric fluorescent sensor for sequentially detecting Cu <sup>2+</sup> and arginine based on a coumarin-rhodamine B derivative and its application for bioimaging. RSC Advances, 2019, 9, 6643-6649.	3.6	25
41	A highly selective sequential recognition probe for Zn <sup>2+</sup> and HSO <sub>4</sub> <sup>-</sup> /H <sub>2</sub> PO <sub>4</sub> <sup>-</sup> based on a diarylethene chemosensor. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2021, 246, 119052.	3.9	25
42	Synthesis, photophysical and iron-sensing properties of terpyridyl-based triphenylamine derivatives. Dyes and Pigments, 2012, 95, 757-767.	3.7	24
43	A ratiometric and colorimetric fluorescent probe for the detection of mercury ion based on rhodamine and quinoline-benzothiazole conjugated dyad. Journal of Photochemistry and Photobiology A: Chemistry, 2020, 400, 112657.	3.9	24
44	A novel diarylethene-based fluorescent switch with a carboxamidoquinoline unit for sensing of Zn(II) ion. Journal of Photochemistry and Photobiology A: Chemistry, 2016, 330, 22-29.	3.9	23
45	A fluorescent sensor for Al <sup>3+</sup> based on a photochromic diarylethene with a hydrazinobenzothiazole Schiff base unit. Tetrahedron Letters, 2017, 58, 1390-1394.	1.4	23
46	A sensitive sensor for Cu(II) based on a novel diarylethene with a bipyridyl moiety. Tetrahedron Letters, 2013, 54, 5791-5794.	1.4	22
47	A highly selective fluorescent probe for Cd <sup>2+</sup> and Zn <sup>2+</sup> based on a new diarylethene with quinoline-benzimidazole conjugated system. Tetrahedron Letters, 2016, 57, 5205-5210.	1.4	22
48	Highly emissive carbazole-based gold( <sup>i</sup> ) complex with a long room-temperature phosphorescence lifetime and self-reversible mechanochromism characteristics. RSC Advances, 2017, 7, 15112-15115.	3.6	21
49	Europium(III) complex fluorescent sensor for dual channel recognition of Sn <sup>2+</sup> and Cu <sup>2+</sup> ions in water. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2021, 250, 119373.	3.9	21
50	A highly selective fluorescent chemosensor for Cu <sup>2+</sup> based on a new diarylethene with triazole-linked fluorescein. Tetrahedron, 2016, 72, 985-991.	1.9	20
51	A ratiometric and colorimetric probe for detecting Hg <sup>2+</sup> based on naphthalimide-rhodamine and its staining function in cell imaging. RSC Advances, 2019, 9, 11664-11669.	3.6	20
52	Selective rhodamine-based probe for detecting Hg <sup>2+</sup> and its application as test strips and cell staining. Journal of Photochemistry and Photobiology A: Chemistry, 2020, 390, 112302.	3.9	20
53	A photochromic diarylethene-functionalized fluorescent probe for Cd <sup>2+</sup> and Zn <sup>2+</sup> detections. Tetrahedron, 2020, 76, 131618.	1.9	20
54	A colorimetric fluorescent sensor for Cr <sup>3+</sup> based on a novel diarylethene with a naphthalimide-rhodamine B group. Journal of Photochemistry and Photobiology A: Chemistry, 2015, 303-304, 59-66.	3.9	19

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55	A new multi-addressable molecular switch based on a photochromic diarylethene with a thieno-imidazole unit. <i>Tetrahedron Letters</i> , 2016, 57, 1877-1881.	1.4	19
56	Iridium (III) complex-based fluorescent probe for detection of thiophenols and its application in water samples. <i>Dyes and Pigments</i> , 2019, 163, 138-144.	3.7	19
57	Recent research progress of red-emitting/near-infrared fluorescent probes for biothiols. <i>New Journal of Chemistry</i> , 2022, 46, 10995-11020.	2.8	19
58	A multi-addressable molecular switch based on a novel diarylethene with an imidazo [4,5- <i>i</i> ] [1,10] phenanthroline unit. <i>Journal of Physical Organic Chemistry</i> , 2014, 27, 183-190.	1.9	18
59	A new fluorescent sensor for Zn <sup>2+</sup> based on diarylethene with a 4-diethylamino-salicylaldehyde Schiff base unit. <i>Journal of Physical Organic Chemistry</i> , 2016, 29, 421-429.	1.9	17
60	A diarylethene-based fluorescence sensor for the sequential recognition of mercury and cysteine. <i>RSC Advances</i> , 2017, 7, 20591-20596.	3.6	17
61	An fluorescence sensor for sequential detection of Cu <sup>2+</sup> and hydrogen sulfide based on a naphthalimide-rhodamine B derivative and its application in dual-channel cell imaging. <i>RSC Advances</i> , 2018, 8, 33121-33128.	3.6	17
62	Aggregation-induced emission enhancement (AIEE)-active mechanofluorochromic tetraphenylethene derivative bearing a rhodamine unit. <i>Tetrahedron Letters</i> , 2018, 59, 4416-4419.	1.4	17
63	Bifunctional Cu <sup>2+</sup> /Fe <sup>3+</sup> Probe with Independent Signal Outputs Based on a Photochromic Diarylethene with a Dansylhydrazine Unit. <i>ACS Omega</i> , 2019, 4, 6597-6606.	3.5	17
64	A multi-functional hydrazinobenzothiazole-based diarylethene derivative: Highly efficient discrimination cadmium ion from zinc ion and near-infrared absorption detection of hydroxide ion. <i>Dyes and Pigments</i> , 2017, 146, 305-315.	3.7	16
65	The effect of the formyl group position upon asymmetric isomeric diarylethenes bearing a naphthalene moiety. <i>Beilstein Journal of Organic Chemistry</i> , 2012, 8, 1018-1026.	2.2	15
66	A colorimetric and fluorescent chemosensor for Hg <sup>2+</sup> based on a photochromic diarylethene with a quinoline unit. <i>RSC Advances</i> , 2018, 8, 39854-39864.	3.6	15
67	A solvent-dependent chemosensor for fluorimetric detection of Hg <sup>2+</sup> and colorimetric detection of Cu <sup>2+</sup> based on a new diarylethene with a rhodamine B unit. <i>RSC Advances</i> , 2019, 9, 42155-42162.	3.6	15
68	Amino-functionalized copper-based metal-organic frameworks for highly selective and sensitive detection of hypochlorite. <i>New Journal of Chemistry</i> , 2020, 44, 19753-19758.	2.8	15
69	Multi-functional ion sensor based on a photochromic diarylethene with a 1 <i>H</i> -imidazo [4,5- <i>i</i> ] [1,10] phenanthroline unit. <i>Luminescence</i> , 2015, 30, 1290-1296.	2.9	14
70	A Highly Selective Chemosensor for Cu <sup>2+</sup> Based on a Diarylethene Linking an Aminoquinoline Unit. <i>Chinese Journal of Chemistry</i> , 2015, 33, 1310-1316.	4.9	14
71	A novel fluorescence sensor based on a photochromic diarylethene for the selective detection of Al(III). <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 196, 303-310.	3.9	14
72	A new fluorescence sensor based on diarylethene with a N'-(quinolin-8-ylmethylene)benzohydrazide group for Zn <sup>2+</sup> detection. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018, 364, 32-39.	3.9	13

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73	1,8-Naphthalimide-based highly emissive luminogen with reversible mechanofluorochromism and good cell imaging characteristics. <i>Tetrahedron Letters</i> , 2018, 59, 3600-3604.	1.4	13
74	Thiophene-containing tetraphenylethene derivatives with different aggregation-induced emission (AIE) and mechanofluorochromic characteristics. <i>RSC Advances</i> , 2019, 9, 24338-24343.	3.6	13
75	A new multi-functional fluorescent mercuric ion sensor based on diarylethene with triazole-linked rhodamine B unit. <i>Tetrahedron</i> , 2020, 76, 131393.	1.9	13
76	Naked-eye detection of Cu (II) and Fe (III) based on a Schiff Base Ruthenium complex with nicotinohydrazide. <i>Applied Organometallic Chemistry</i> , 2020, 34, e5841.	3.5	12
77	A H <sub>2</sub> O-induced fluorescence turn-on diarylethene derivative and its fluorescent sensing Al <sup>3+</sup> . <i>Microchemical Journal</i> , 2021, 163, 105887.	4.5	12
78	A Novel Diarylethene-rhodamine Unit Based Chemosensor for Fluorimetric and Colorimetric Detection of Hg <sup>2+</sup> . <i>Journal of Fluorescence</i> , 2021, 31, 1513-1523.	2.5	12
79	A new multi-addressable molecular switch based on a photochromic diarylethene with a 6-aryl[1,2-c]quinazoline unit. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 138, 441-446.	3.9	11
80	A new sensitive symmetric fluorescein-linked diarylethene chemosensor for Hg <sup>2+</sup> detection. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018, 367, 465-470.	3.9	11
81	Copper-Catalyzed Diversity-Oriented Synthesis (DOS) of 4-Amino-2- <i>H</i> -chromen-2-imines: Application of Kemp Elimination toward O-Heterocycles. <i>ACS Omega</i> , 2018, 3, 8160-8168.	3.5	10
82	A novel full symmetric diarylethene-based ratiometric fluorescent sensor for lysine and the application for a logic circuit. <i>Luminescence</i> , 2021, 36, 691-697.	2.9	10
83	Substituent effect in the photochromism of two isomeric asymmetric diarylethenes having pyrrole and thiophene units. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017, 173, 257-263.	3.9	8
84	A highly selective diarylethene fluorescence sensor of aluminum ion and its application. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2021, 405, 112958.	3.9	8
85	A new highly selective diarylethene with near-infrared fluorochrome unit for sequential detection of copper ion. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019, 211, 322-329.	3.9	7
86	A dual-functional chemical sensor for the detection of Cu <sup>2+</sup> and Cd <sup>2+</sup> based on the photochromic diarylethene. <i>Tetrahedron</i> , 2022, 104, 132583.	1.9	7
87	A self-assembly lanthanide nanoparticle for ratiometric fluorescence determination of alkaline phosphatase activity. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2022, 432, 114054.	3.9	7
88	Effects of Aromatic Stabilization Energies on Photochromism of New Asymmetrical Azaindole-Containing Diarylethenes. <i>Chinese Journal of Chemistry</i> , 2015, 33, 785-791.	4.9	6
89	A diarylethene-based fluorescent chemosensor for highly selective recognition of Zn <sup>2+</sup> and its application. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2022, 431, 114011.	3.9	6
90	Photochromism of a novel asymmetrical diarylethene with a (formyloxyethoxy)ethyl-linked naphthalimide moiety. <i>Journal of Physical Organic Chemistry</i> , 2014, 27, 764-769.	1.9	5

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91	Hg <sup>2+</sup> selective ratiometric and colorimetric probe based on dansyl-rhodamine and its staining function in cell imaging. <i>Luminescence</i> , 2019, 34, 911-917.	2.9	5
92	A high selective chemosensor for detection of Al <sup>3+</sup> based on diarylethene with a hydrazide unit. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2022, 425, 113718.	3.9	5
93	1,10-Phenanthroline decorated with substituent groups forming europium(III) complexes: synthesis, crystal structure, photoluminescence properties and their bioimaging in living cells. <i>Journal of Coordination Chemistry</i> , 2020, 73, 2311-2327.	2.2	4
94	Pyromellitic diimide-based luminophors: Tunable aggregation-induced emission (AIE) and reversible mechanofluorochromism characteristics. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2021, 417, 113344.	3.9	4
95	Effects of aromatic stabilization energies of aryl rings of symmetrical diarylethenes. <i>Tetrahedron</i> , 2017, 73, 6479-6485.	1.9	3
96	Bifunctional probe for Cu <sup>2+</sup> /Al <sup>3+</sup> based on a diarylethene with a 4,5-bis-(5-ethylacetate-yl)-2-thienyl-1H-imidazole unit. <i>Tetrahedron</i> , 2019, 75, 130708.	1.9	3