

**Acid-regulated boron-nitrogen codoped multicolor carbonized
polymer dots and applications for pH sensing and trace water
detection**

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Table S1. Comparison of water detection features of CDs with other work.

Material	Solvent	LoD (%)	Detection ranges	Reference
1,2,4-Triaminobenzene dihydrochloride and urea	THF Ethyl acetate DMF	0.076 0.037 0.072	0-0.8%	1
o-Phenylenediamine	Acetone THF Acetonitrile	0.19 0.13 0.18	0-100%	2
1,3,6-trinitropyrene	THF Ethanol DMF	0.256 0.399 0.189	0-4%	3
β -resorcylic acid and ethylenediamine	Acetone THF	0.37 0.38	0-100%	4
2,5-dihydroxyterephthalic acid	Ethanol	0.052	0-100%	5
p-Phenylenediamine and nitrilotriacetic acid	Ethanol DMF Acetonitrile	1.666854 12.3388 8.920523	0-40%	6
Commercial brown sugar	THF Isopropyl alcohol	/	0-5%	7
p-Phenylenediamine and lignin	Ethanol Acetone	0.36 0.082	10-90%	8
p-Phenylenediamine and 3-formylbenzenesulfonic acid	DCM	0.0342	0-1%	This work

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