

## Surface Adhered Fluorescent Carbon Dots Extracted from the Harmful Diesel Soot for Sensing Fe (III) and Hg (II) ions

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A comparative table for the selective sensing of Fe(III) and Hg(II) metal ions using various type of CDs is summarized in Table S1.

S. No.	FL Sensor	Emission	LOD	Quencher	Ref.
1.	FJU-13a-Eu & FJU-13a-Tb	Red & Green	1.41 $\mu$ M & 1.01 $\mu$ M	Fe(III)	1
2.	N-GQDs	Blue	90 nM	Fe(III)	2
3.	B-CDs	Blue	242 nM	Fe(III)	3
4.	N-CDs	Blue	10 nM	Fe(III)	4
5.	CDs	Blue-Green	352 nM	Fe(III)	This Work
6.	LR-CDs	Blue, Green, & Red	18.7 nM	Hg(II)	5

7.	N-CDs	Blue	50 nM	Hg(II)	4
8.	CQD-Tb	Blue-Green	168.8 ppb	Hg(II)	6
9.	Ag Clusters	Red	10 nM	Hg(II)	7
10.	CDs	Blue-Green	898 nM	Hg(II)	This Work

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