Supporting Information

Deposition of Quantum dots in microfluidic paper chips for rapid fluorescent detection of pesticide 2, 4-D

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Fig. S1

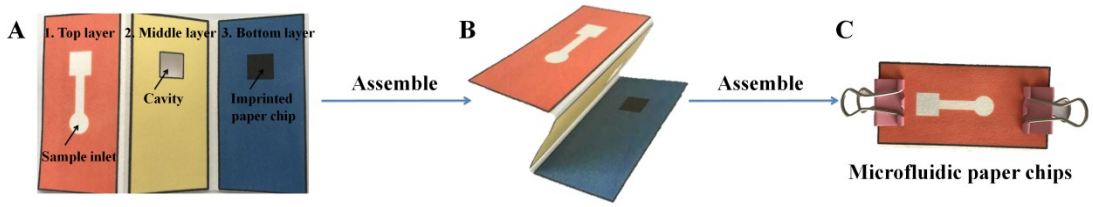

Fig. S1. The component of microfluidic paper chips and its assembling process.

Fig. S2

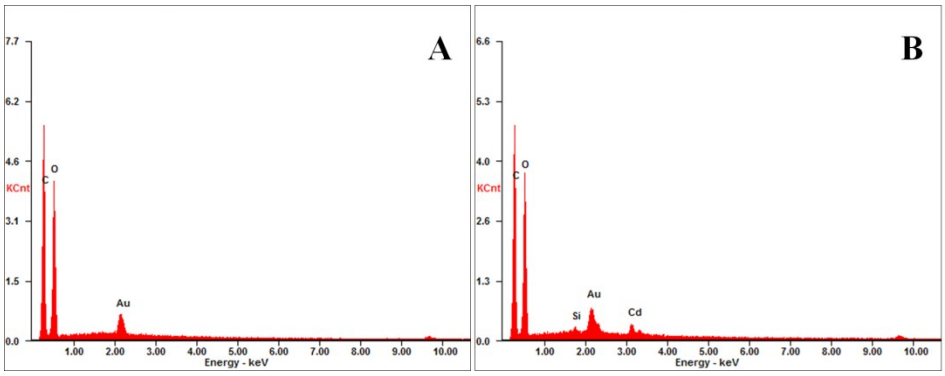

Fig. S2. EDS image result of (A) paper, (B) paper@QDs@MIPs.

Fig. S3

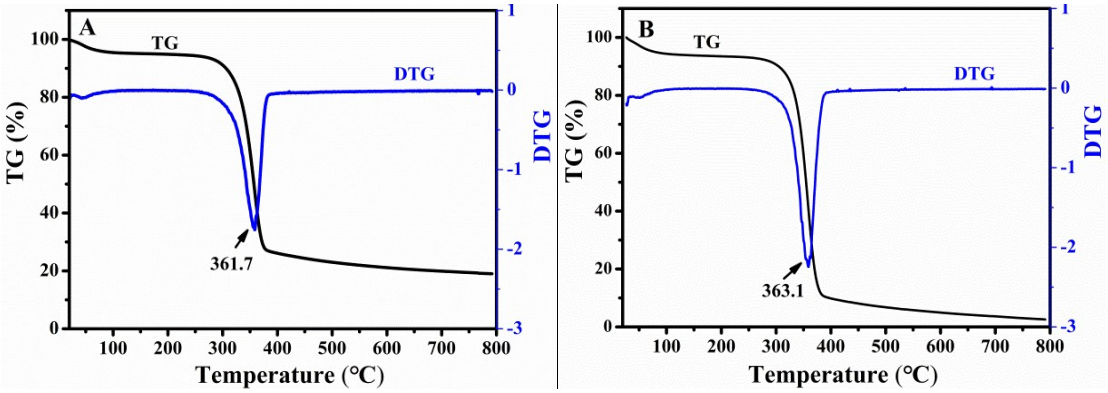

Fig. S3. TG and DTG curves of (A) paper@QDs@MIPs, (B) paper@QDs@NIPs.

Fig. S4

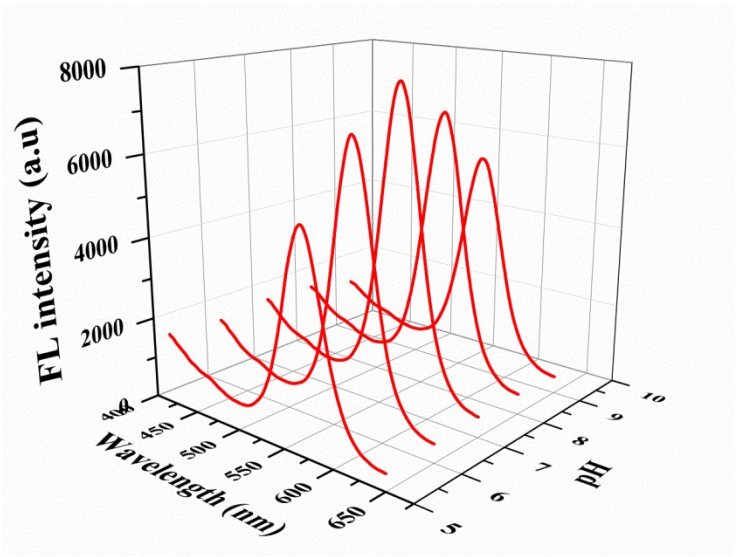

Fig. S4. Effect of pH on the fluorescence intensity of paper@QDs@MIPs.

Fig. S5

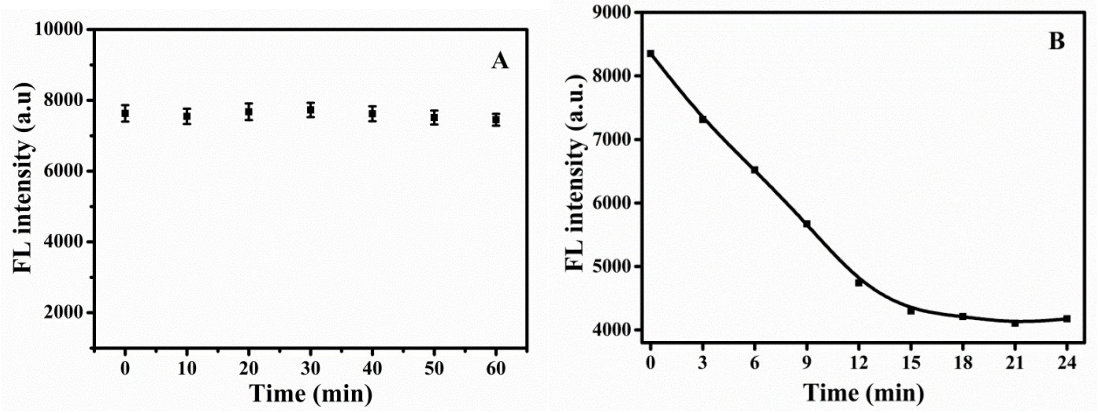

Fig. S5. (A) Fluorescence intensity of paper@QDs@MIPs within 60 min; (B) fluorescence response time of paper@QDs@MIPs.

Fig. S6

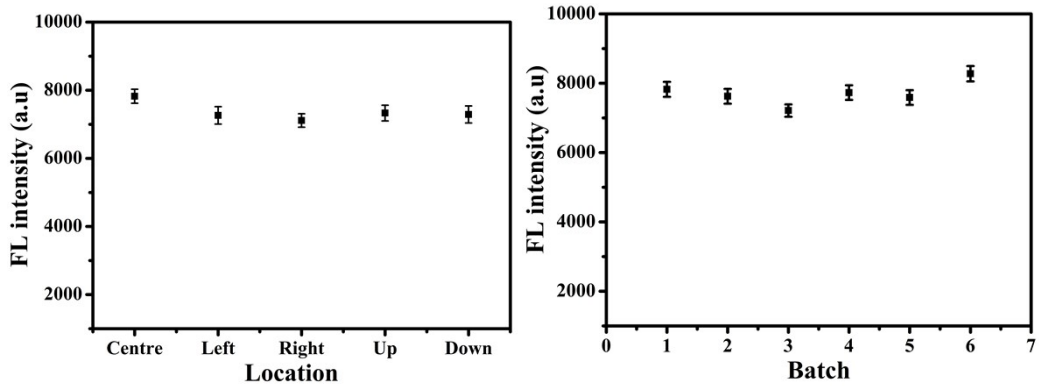

Fig. S6. (A) Fluorescence intensity of different location on the paper@QDs@MIPs; (B) fluorescence intensity of different paper@QDs@MIPs in the separate batch.

Table. S1 Atomic composition ratios of paper and paper@QDs@MIPs from EDX mapping analysis.

Element	Paper		paper@QDs@MIPs			
	C K	O K	C K	O K	Si K	CdL
Wt %	53.27	46.73	51.13	45.71	0.34	2.82
At %	60.29	39.71	59.53	39.95	0.17	0.35