

## **Supplementary data**

### **Catalytic degradation of methylene blue using iron and nitrogen-containing carbon dots as Fenton-like catalysts**

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**Table S1.** Levels and parameters utilised in the Taguchi method.

<b>Factor</b>	<b>Name</b>	<b>Levels</b>
<b>A</b>	Temperature (°C)	20; 30; 40; 50
<b>B</b>	pH	4.0; 6.0; 8.0; 10.0
<b>C</b>	Catalyst dose (mg mL <sup>-1</sup> )	0.17; 0.33; 0.50; 0.67
<b>D</b>	H <sub>2</sub> O <sub>2</sub> dose (mM)	47; 98; 147; 196

**Table S2.** Combination of the 16 experiments generated by Taguchi method of experimental design.

<b>Temperature</b>	<b>pH</b>	<b>Catalyst dose (mg mL<sup>-1</sup>)</b>	<b>H<sub>2</sub>O<sub>2</sub> dose (mM)</b>
20	4	0.17	47
20	6	0.33	98
20	8	0.50	147
20	10	0.67	196
30	4	0.33	147
30	6	0.17	196
30	8	0.67	47
30	10	0.50	98
40	4	0.50	196
40	6	0.67	147
40	8	0.17	98
40	10	0.33	47
50	4	0.67	98
50	6	0.50	47
50	8	0.33	196
50	10	0.17	147