**Waste rice noodle based CQDs/ZnO composite nanorod array on steel wire mesh: Preparation and photocatalytic capability**

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**Fig. S1** Schematic diagram of a photocatalytic reactor equipped with stainless steel wire mesh with the surface-loaded CQDs/ZnO composite nanorod array.



**Fig. S2** The pseudo-first-order kinetic fitting of photocatalytic degradation of CQDs/ZnO composite arrays (CQDs/ZnO-x, x=1, 2, 3, 4 and 5) and pure ZnO array to methylene blue under 450 nm blue light.



**Fig. S3** The photocatalytic degradation rate within different irradiation times of CQDs/ZnO composite arrays (CQDs/ZnO-x, x=1, 2, 3, 4 and 5) and pure ZnO array to malachite green (a), basic magenta (b), rhodamine B (c) and methyl violet (d) by under 450 nm blue light.