Electronic Supplementary Information:

Ultra sensitive and wide-range pH sensor based on the BSA-capped Cu nanoclusters fabricated by fast synthesis through the use of hydrogen peroxide additive

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Fig.s1 The relationship curve of the excitation wavelength with the emission wavelength

Fig.s2 Photographs for recording color changes of the CuNCs-c in the BR buffer at different pH value under visible light (upper) and UV light (under).
**Fig.s3** The effect of standing time on the pH measurement

**Fig.s4** Relationship curves of the fluorescence intensity with the pH values in the HAc-NaAc (a), PBS buffer (b), Tris-HCl (c) and borax-HCl buffer (d).