**Development and Characterization of a Clay-HDTMABr Composite for the Removal of Cr(VI) from Aqueous Solutions with Special Emphasis on the Electrochemical Interface.**

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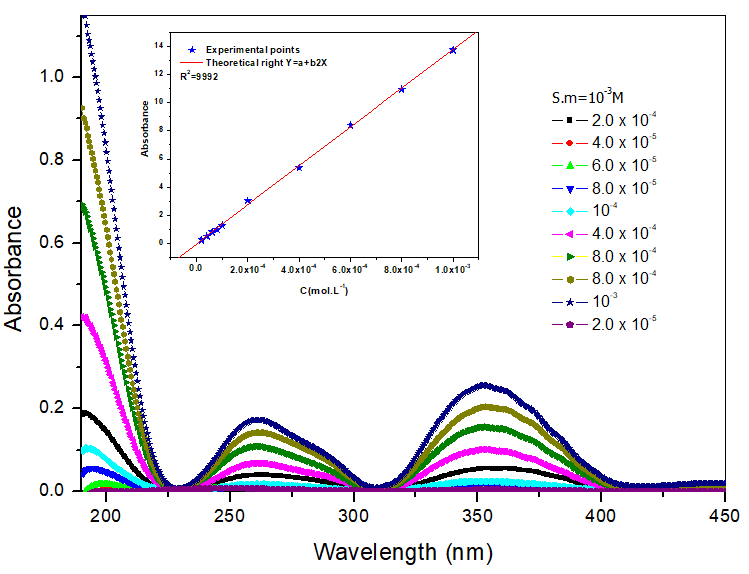
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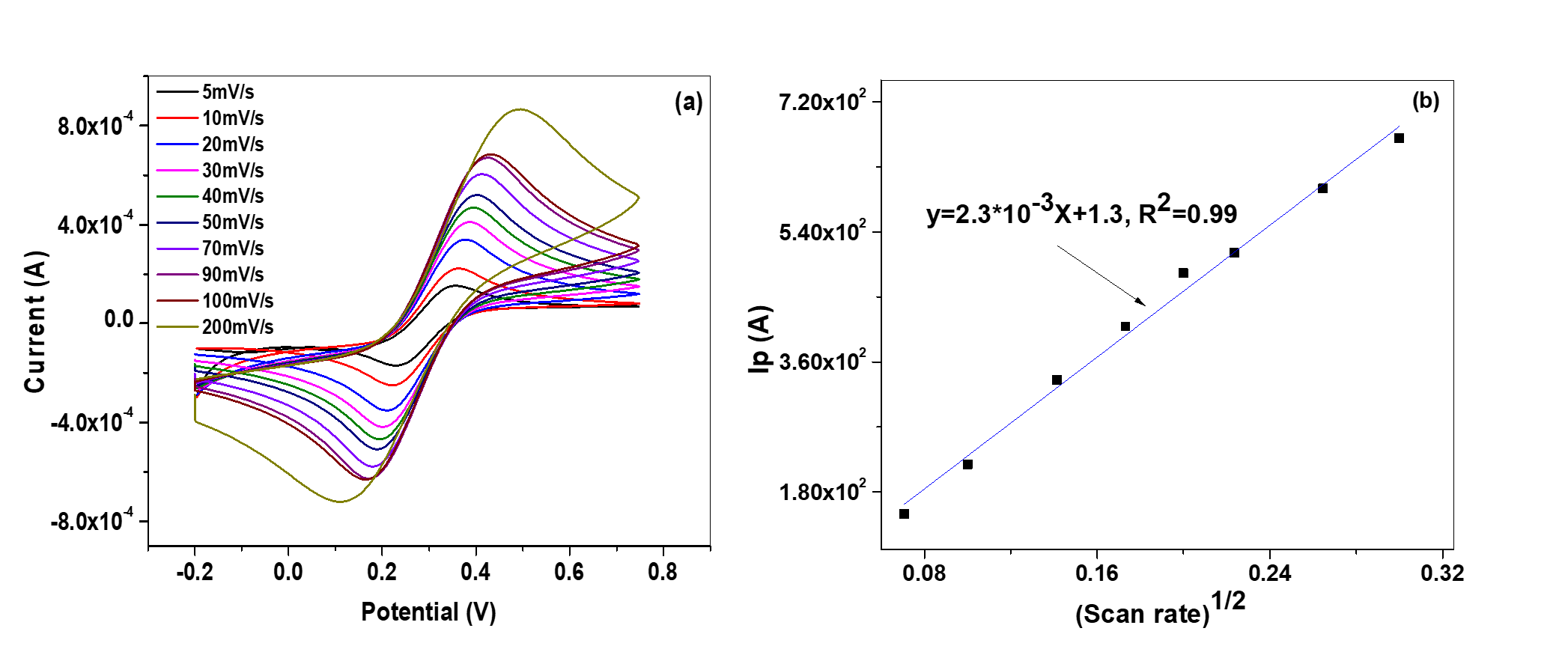
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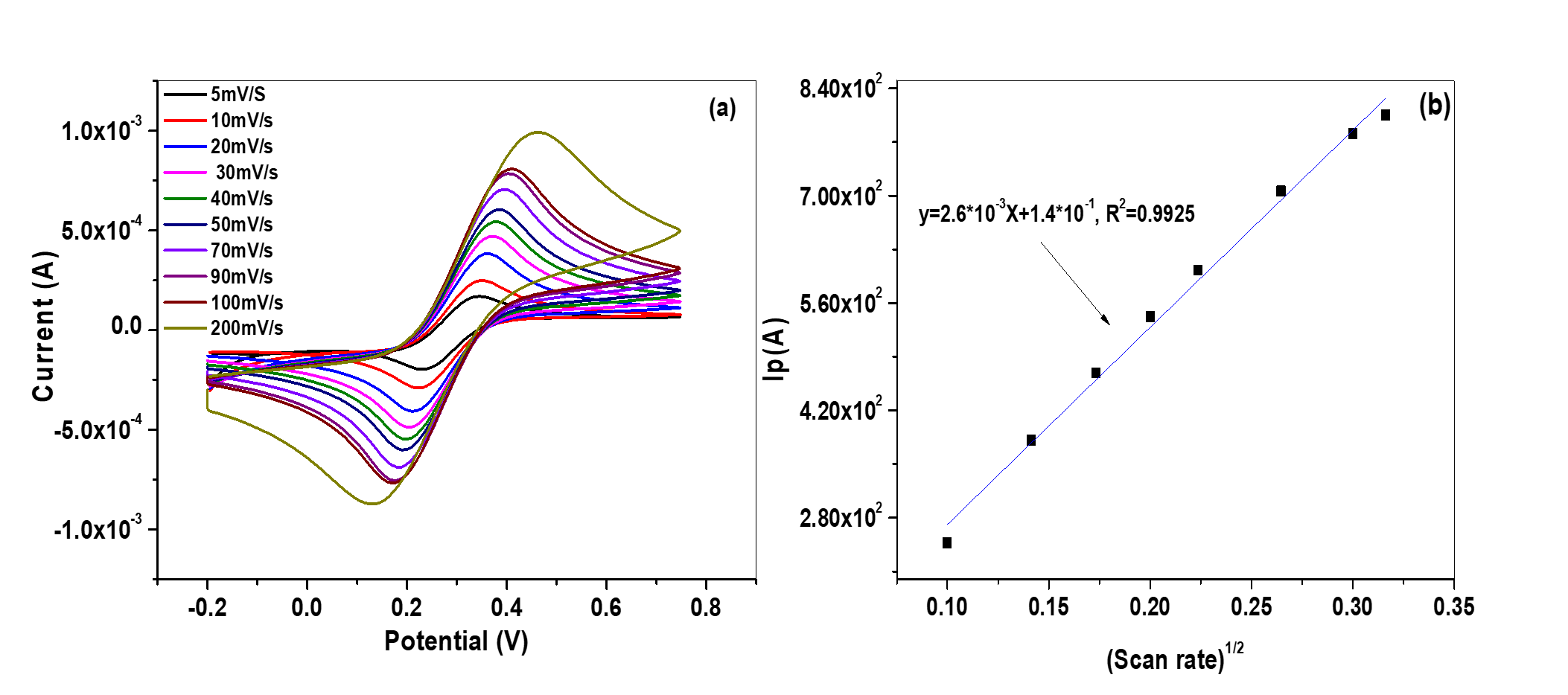
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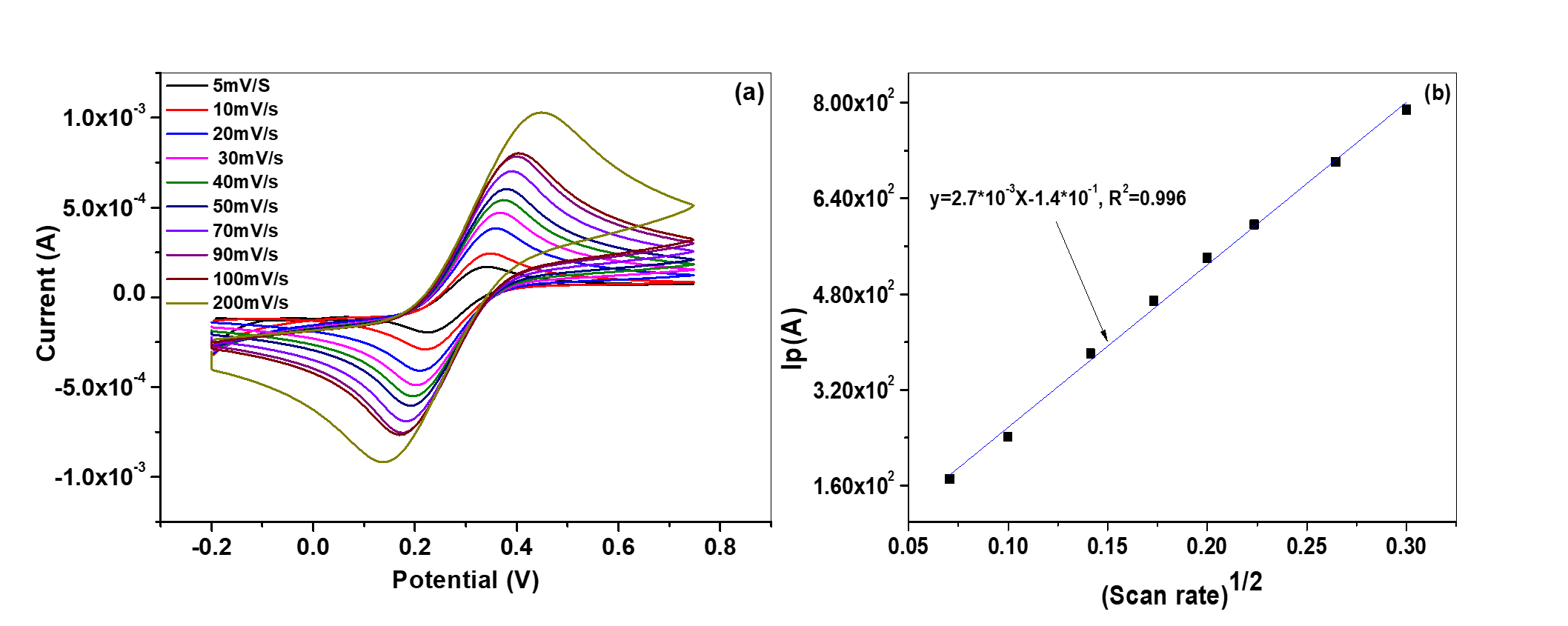
**Fig. S1** UV Spectra of Cr(VI) calibration solutions from 2.0×10-5 to 2.0×10-4.



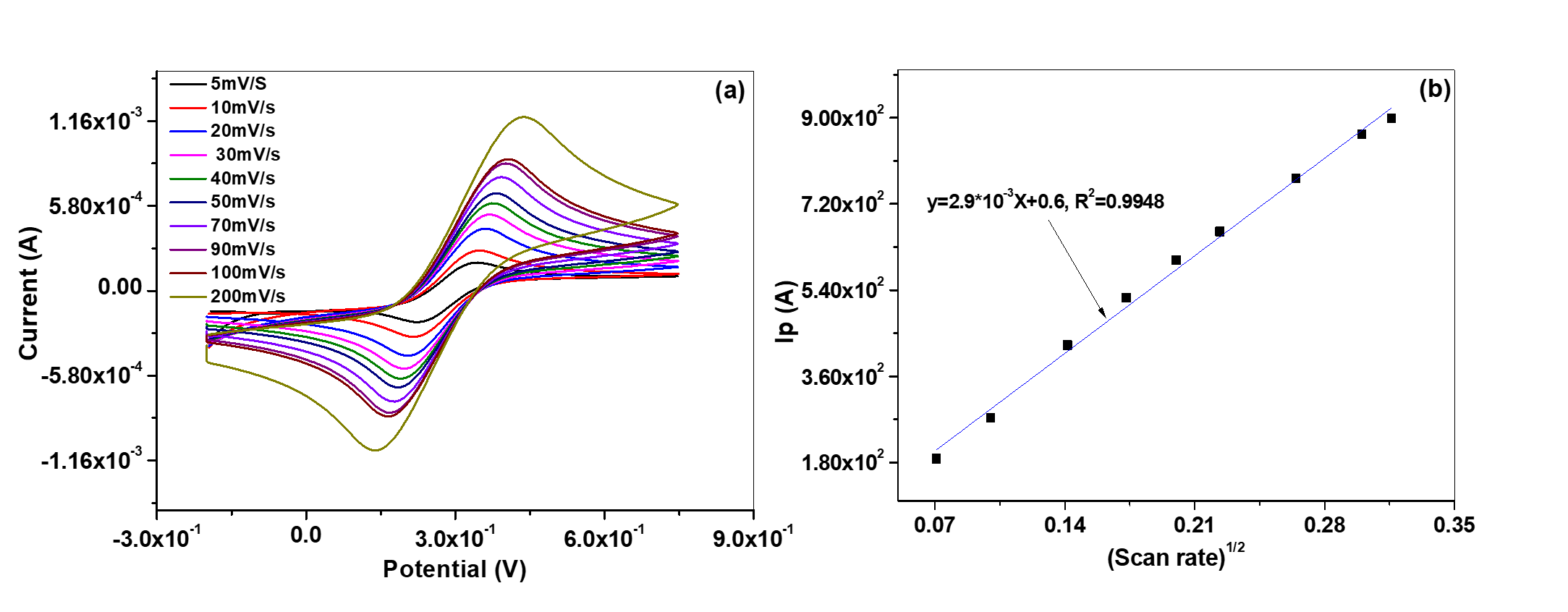
**Fig. S2** (a) CV of 5.0 mM of Fe(CN)6]3-/4-/ 0.1 M KCl solution and corresponding slope (b) of CPE-0wt.% Clay.



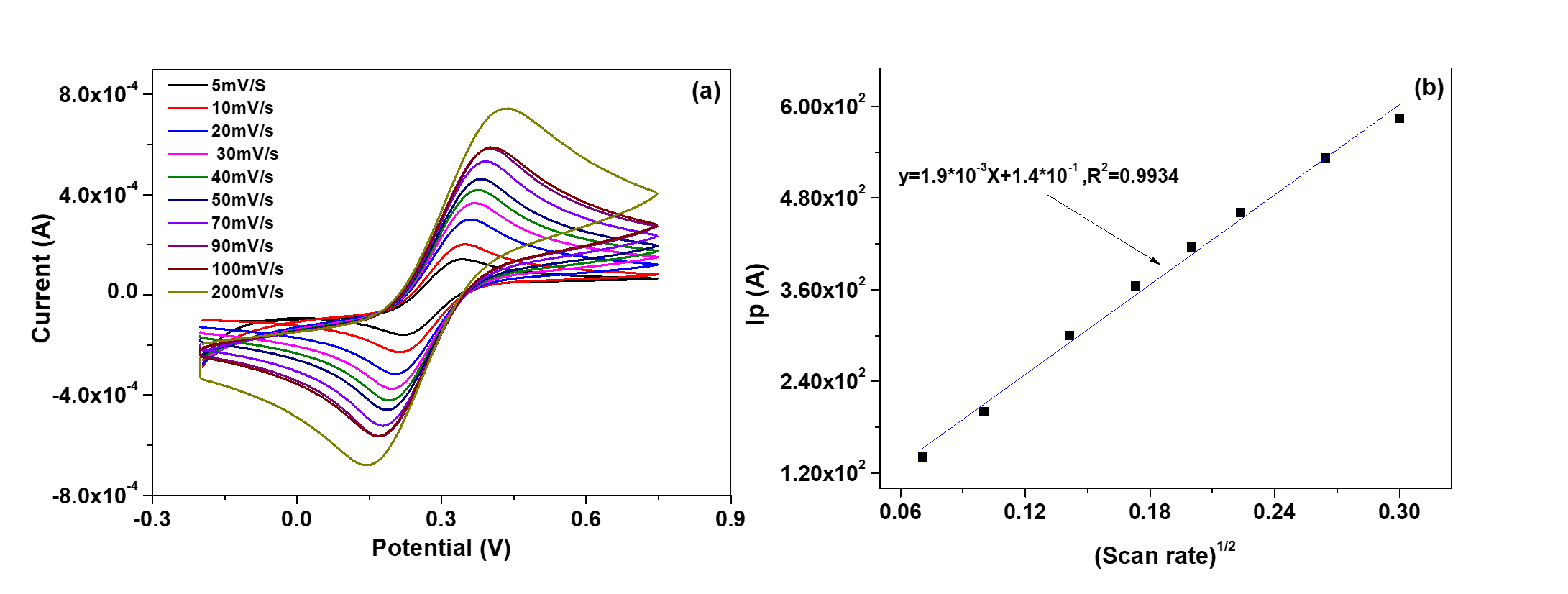
**Fig. S3** (a) CV of 5.0 mM of Fe(CN)6]3-/4-/ 0.1 M KCl solution and corresponding slope (b) of CPE-10wt.% Clay.



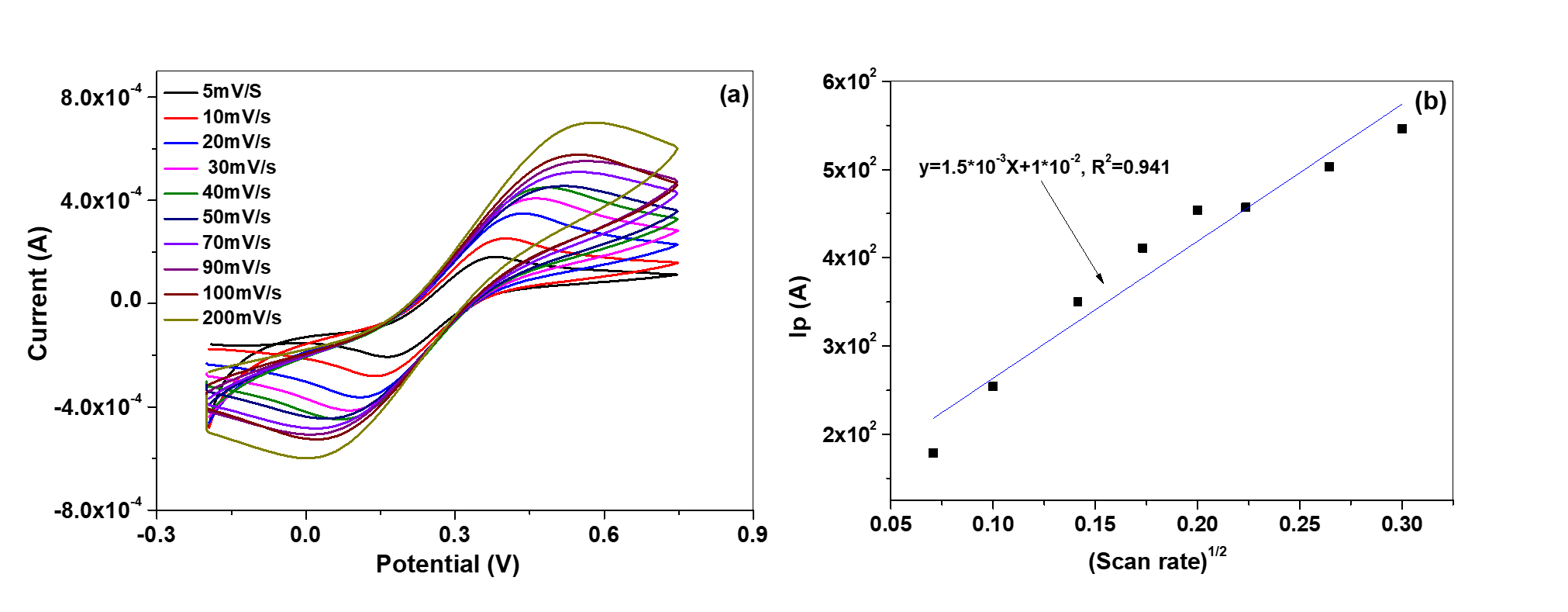
**Fig. S4** (a) CV of 5.0 mM of Fe(CN)6]3-/4-/ 0.1 M KCl solution and corresponding slope (b) of CPE-20wt.% Clay.



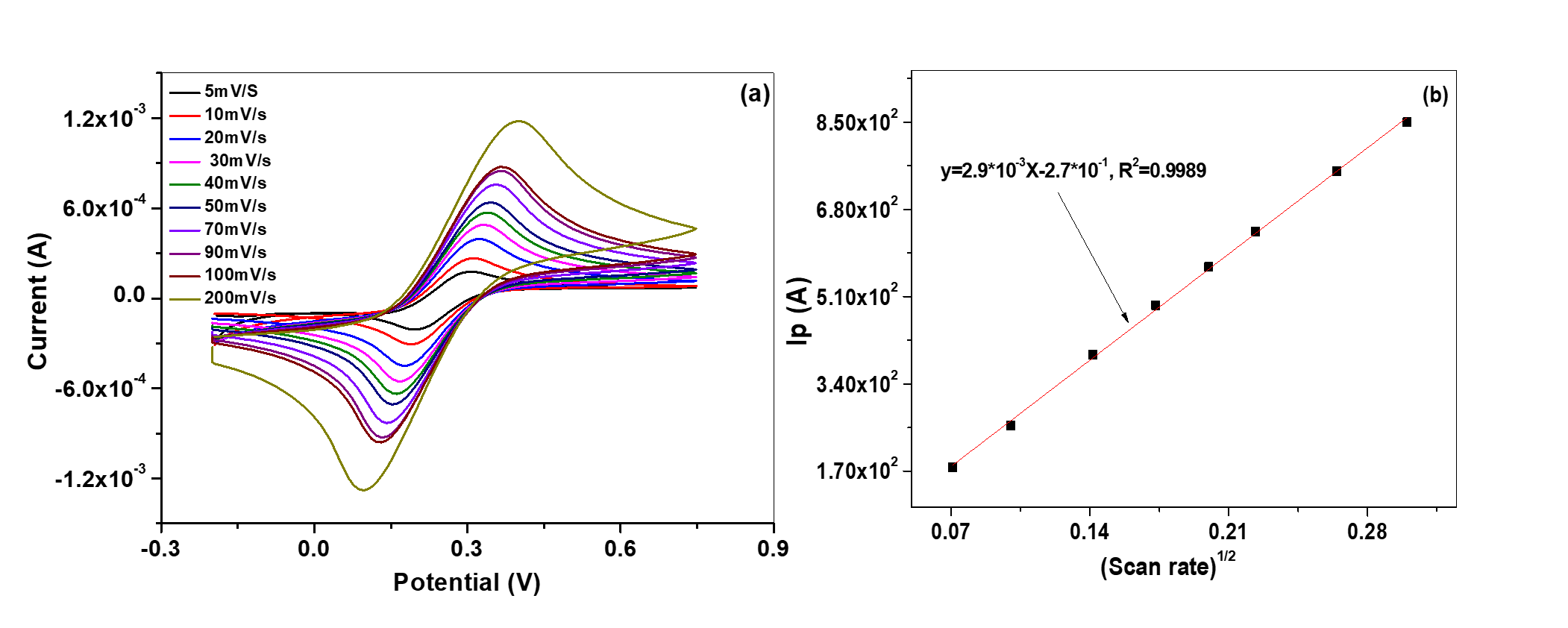
**Fig. S5** (a) CV of 5.0 mM of Fe(CN)6]3-/4-/ 0.1 M KCl solution and corresponding slope (b) of 30 wt.% Clay.



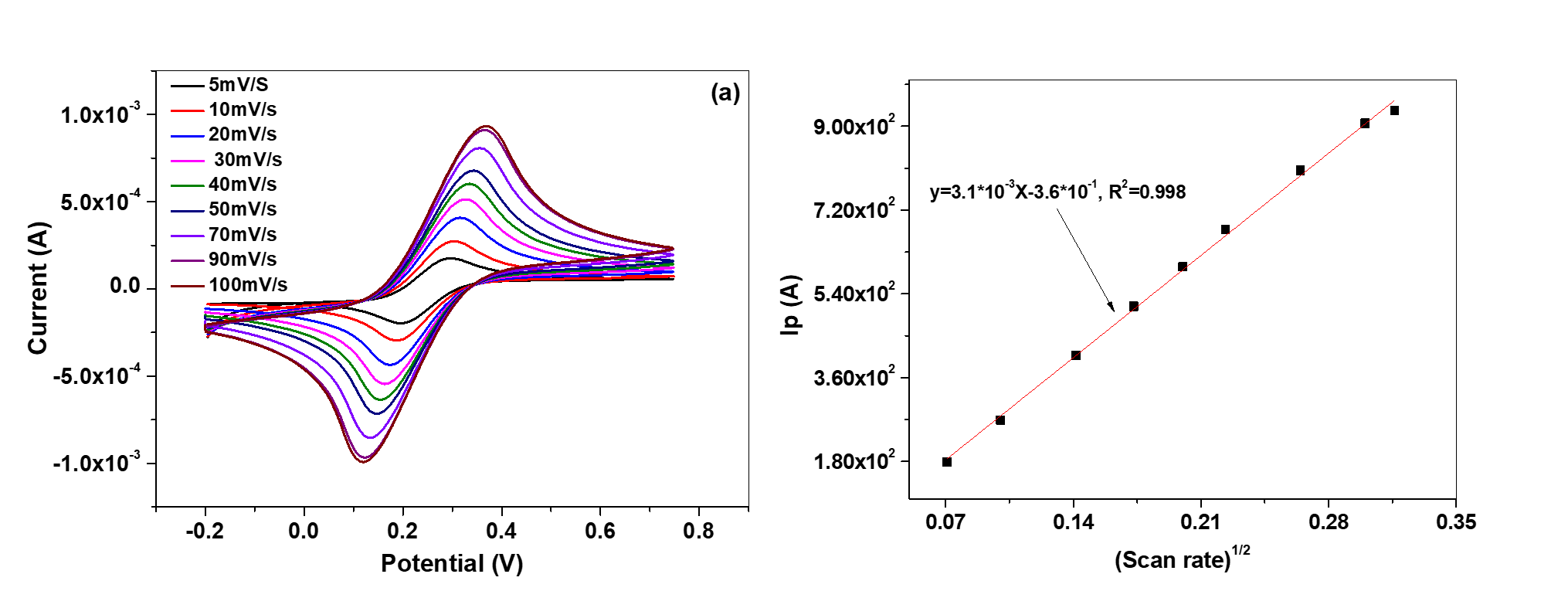
**Fig. S6** (a) CV of 5.0 mM of Fe(CN)6]3-/4-/ 0.1 M KCl solution and corresponding slope (b) of 40wt.% clay.



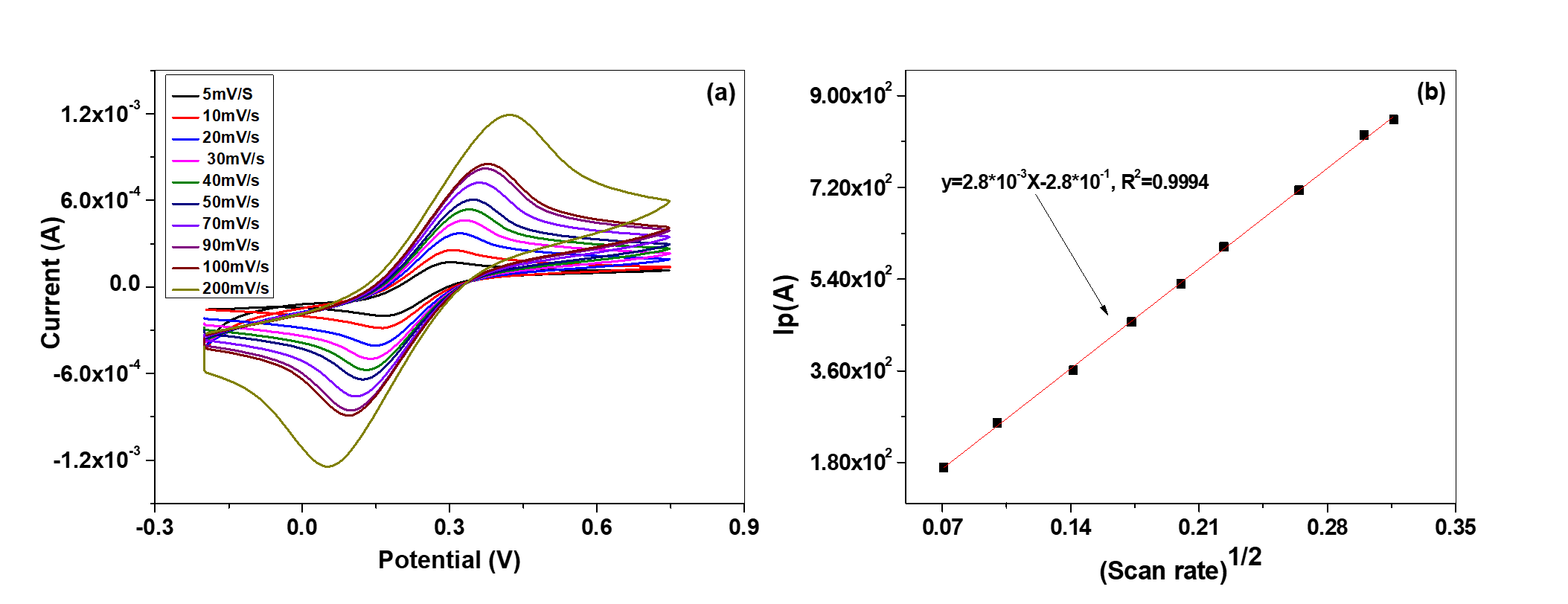
**Fig. S7** (a) CV of 5.0 mM of Fe(CN)6]3-/4-/ 0.1 M KCl solution and corresponding slope (b) of 50wt.% clay.



**Fig. S8** (a) CV of 5.0 mM of Fe(CN)6]3-/4-/ 0.1 M KCl solution and corresponding slope (b) of 10wt.% clay-HDTMABr.



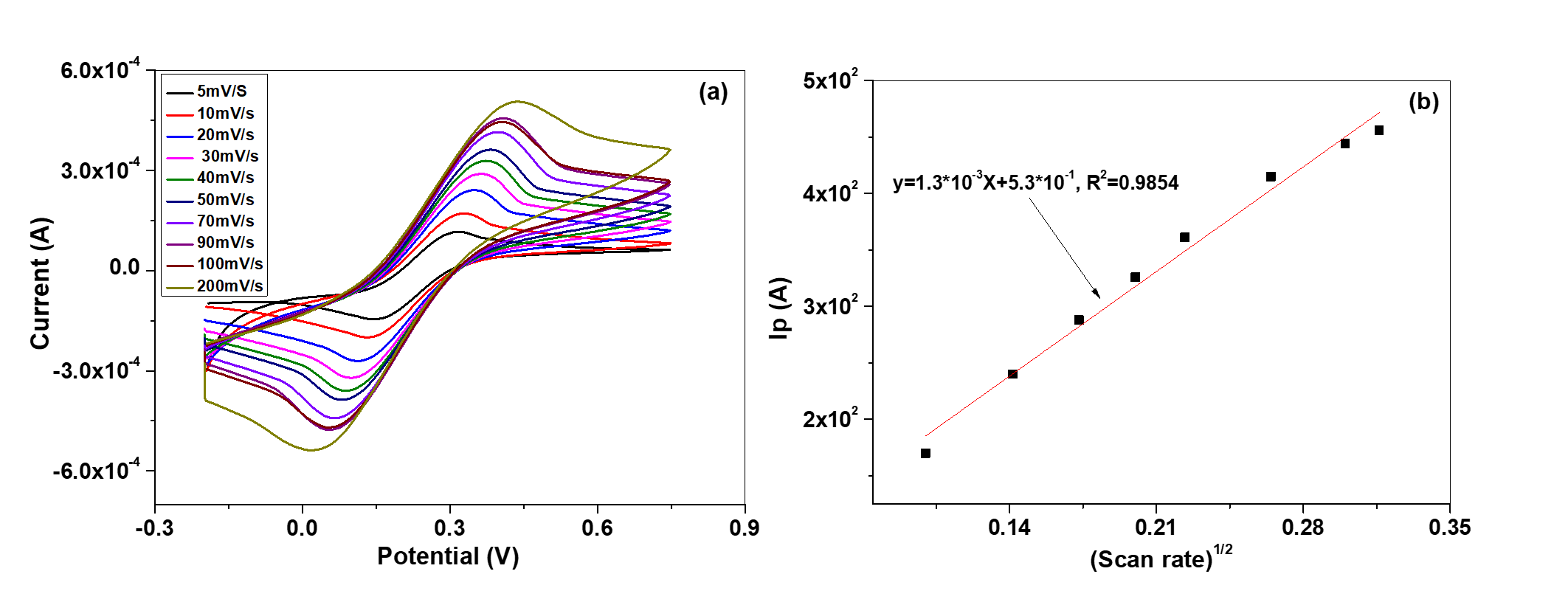
**Fig. S9** (a) CV of 5.0 mM of Fe(CN)6]3-/4-/ 0.1 M KCl solution and corresponding slope (b) of 20wt.% clay-HDTMABr.



**Fig. S10** (a) CV of 5.0 mM of Fe(CN)6]3-/4-/ 0.1 M KCl solution and corresponding slope (b) of 30wt.% clay-HDTMABr.



**Fig. S11** (a) CV of 5.0 mM of Fe(CN)6]3-/4-/ 0.1 M KCl solution and corresponding slope (b) of 40wt.% clay-HDTMABr.



**Fig. S12** (a) CV of 5.0 mM of Fe(CN)6]3-/4-/ 0.1 M KCl solution and corresponding slope (b) of 50wt.% clay-HDTMABr