

Recovery of Rare Earth Elements from Ion-Adsorption Deposits Using Electrokinetic Technology: The Soil Conductivity Mechanism Study

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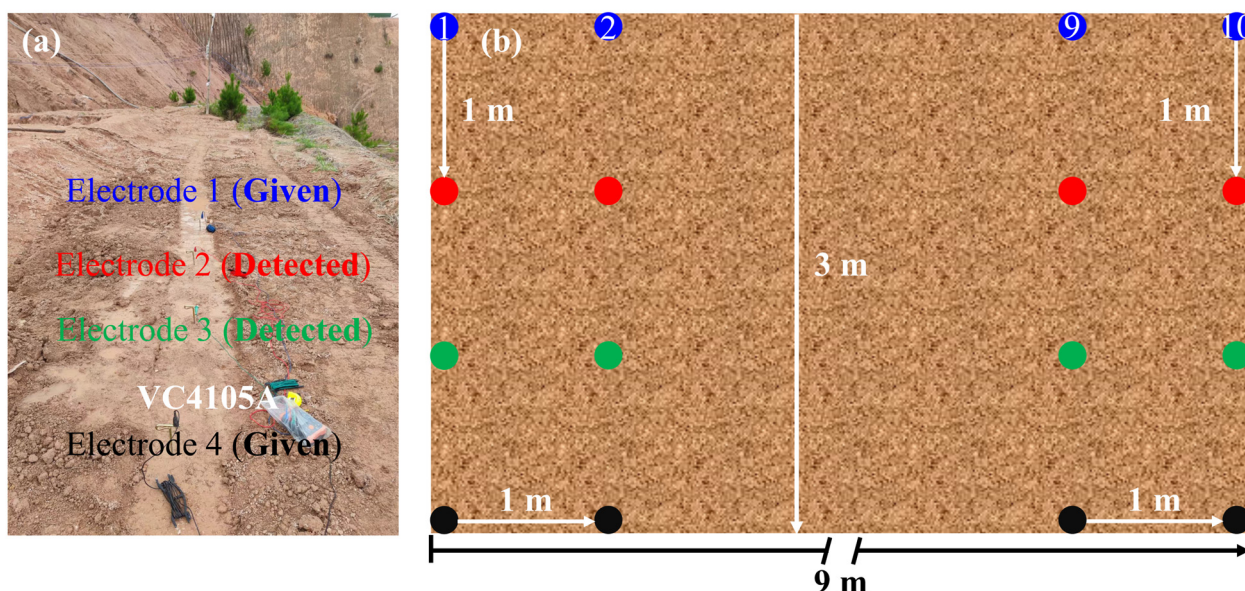


Figure S1. (a) The photo and (b) schematics showing the experimental method for measuring the soil conductivity that is used to predict the water content.

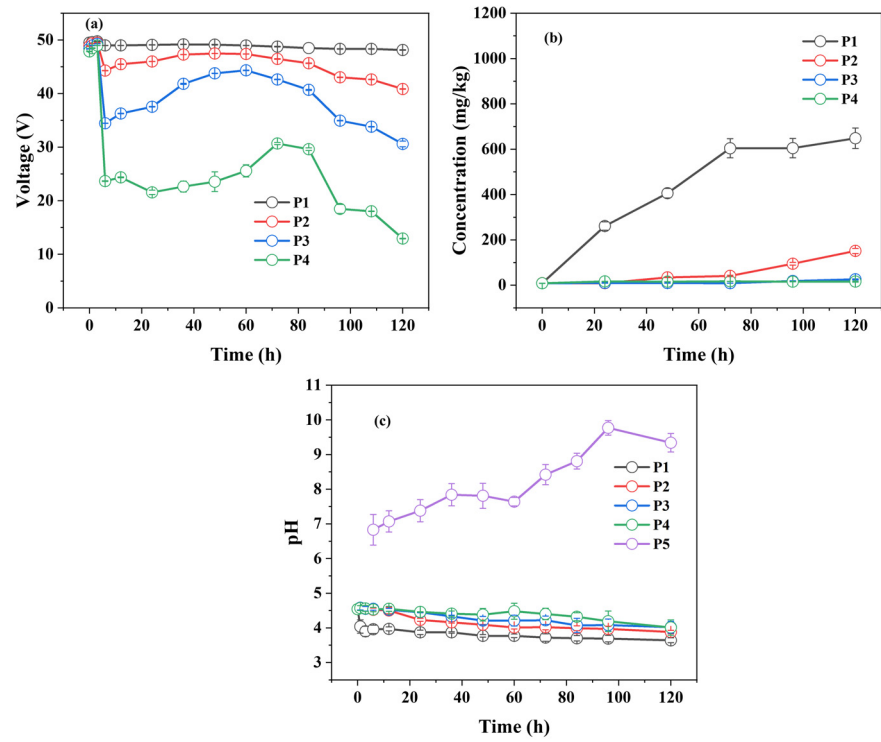


Figure S2. Variations of the moisture content (a), and concentration (b) and pH (c), respectively, at distinct position (P1-P5) in the simulated EKM experiment with the injection of 200 ppm Sm^{3+} solution.

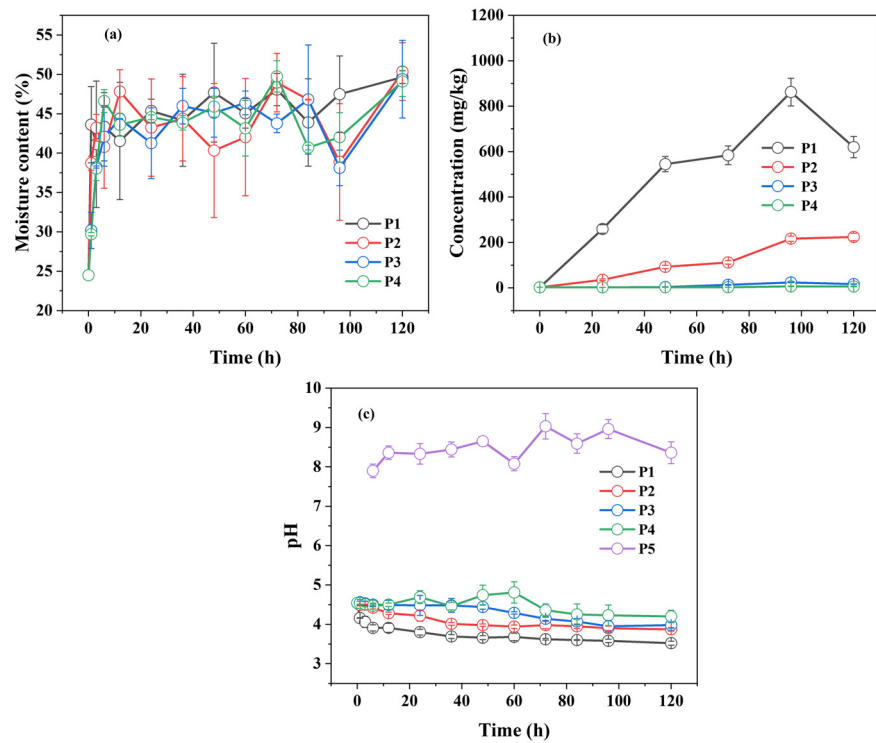


Figure S3. Variations of the moisture content (a), and concentration (b) and pH (c), respectively, at distinct position (P1-P5) in the simulated EKM experiment with the injection of 200 ppm Er^{3+} solution.

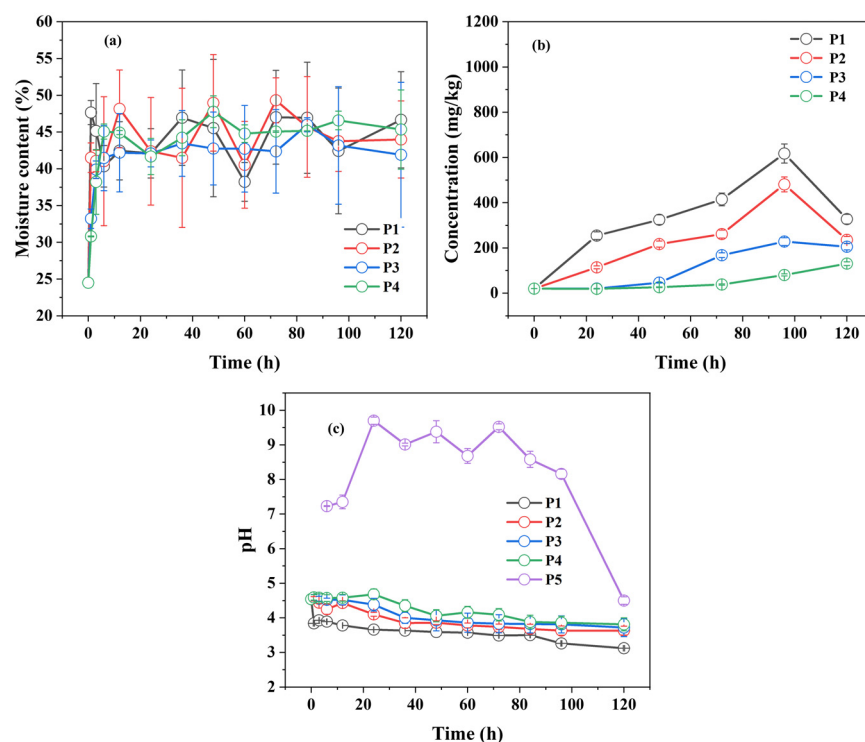


Figure S4. Variations of the moisture content (a), and concentration (b) and pH (c), respectively, at distinct position (P1-P5) in the simulated EKM experiment with the injection of 200 ppm Y^{3+} solution.

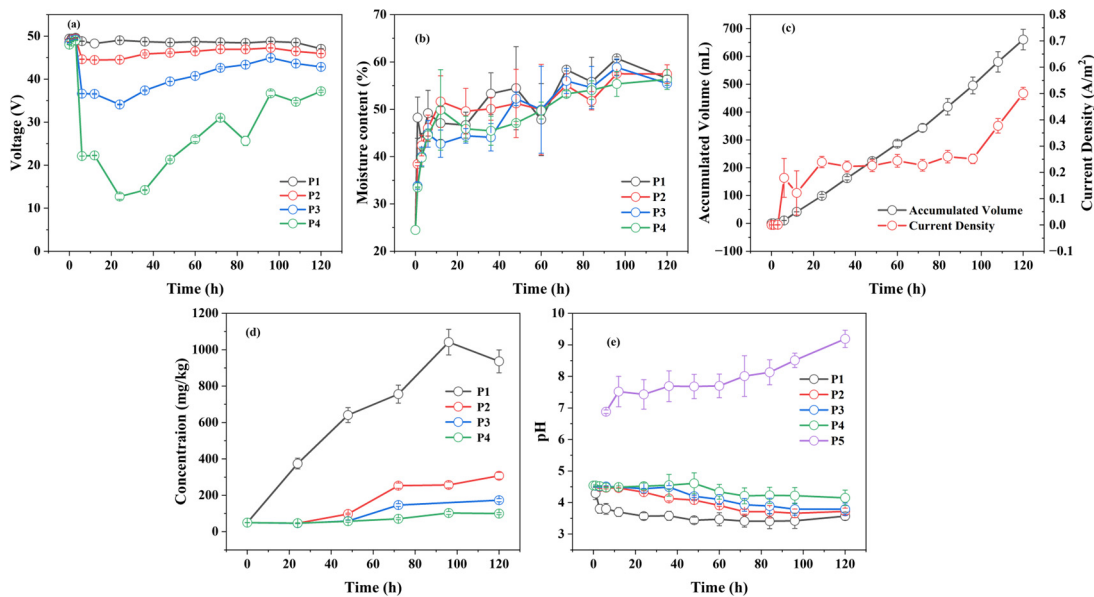


Figure S5. Variations of the voltage (a), moisture content (b), accumulative volume and current density (c), concentration (d) and pH (e), respectively, at distinct position (P1-P5) in the simulated EKM experiment with the injection of 400 ppm La^{3+} solution.

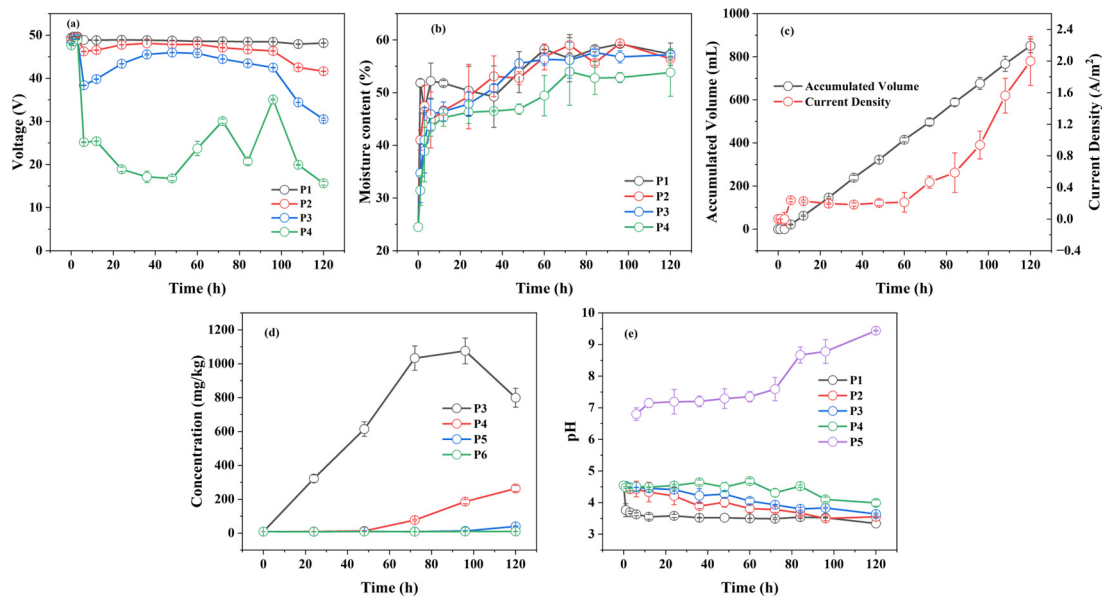


Figure S6. Variations of the voltage (a), moisture content (b), accumulative volume and current density (c), concentration (d) and pH (e), respectively, at distinct position (P1-P5) in the simulated EKM experiment with the injection of 400 ppm Sm^{3+} solution.

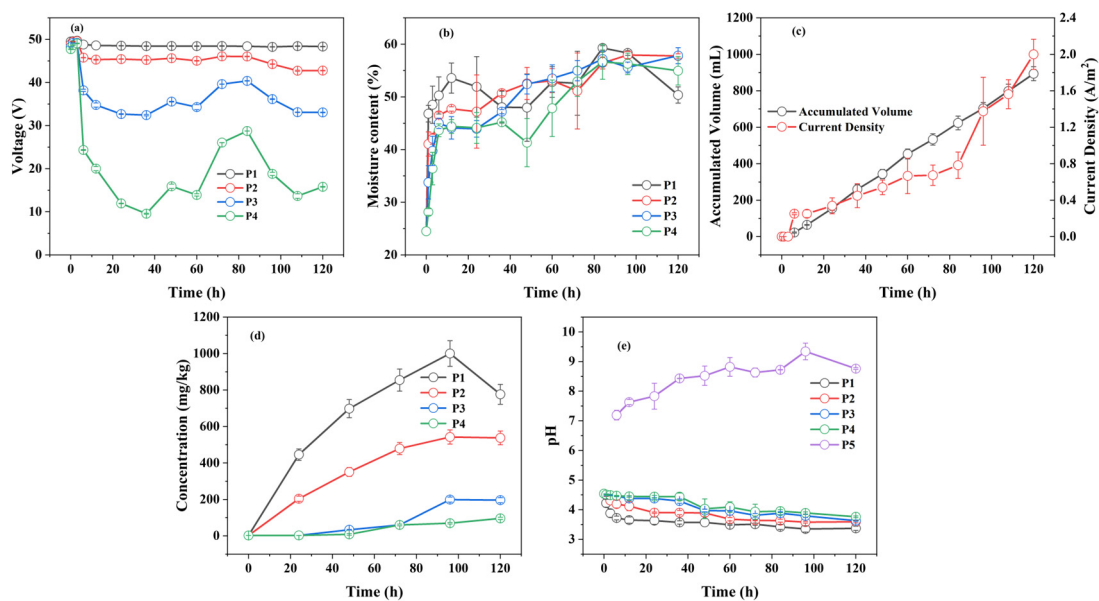


Figure S7. Variations of the voltage (a), moisture content (b), accumulative volume and current density (c), concentration (d) and pH (e), respectively, at distinct position (P1-P5) in the simulated EKM experiment with the injection of 400 ppm Er^{3+} solution.

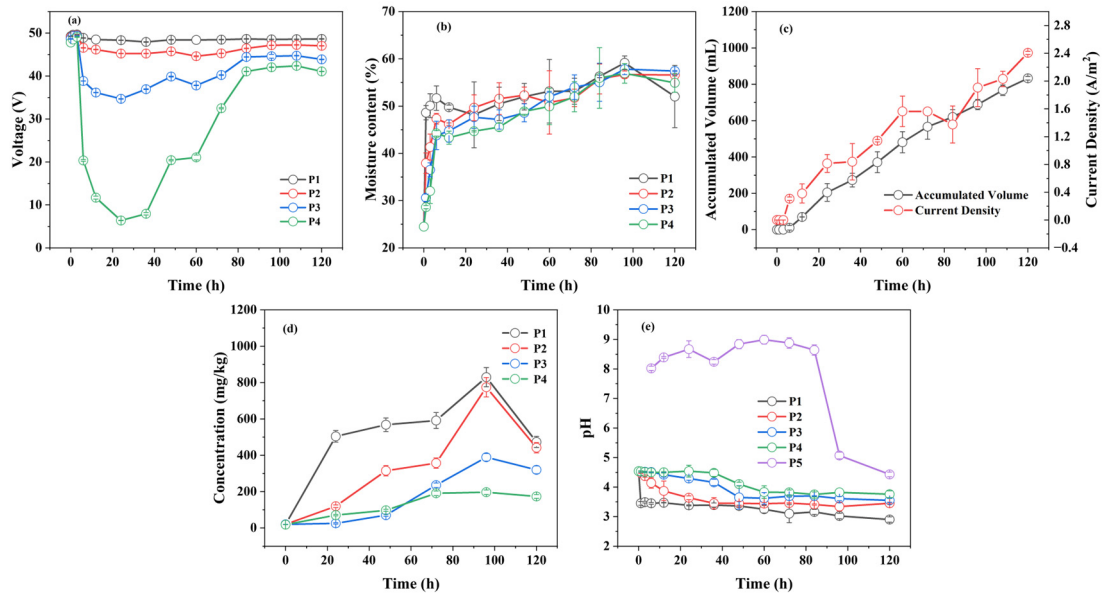


Figure S8. Variations of the voltage (a), moisture content (b), accumulative volume and current density (c), concentration (d) and pH (e), respectively, at distinct position (P1-P5) in the simulated EKM experiment with the injection of 400 ppm Y^{3+} solution.

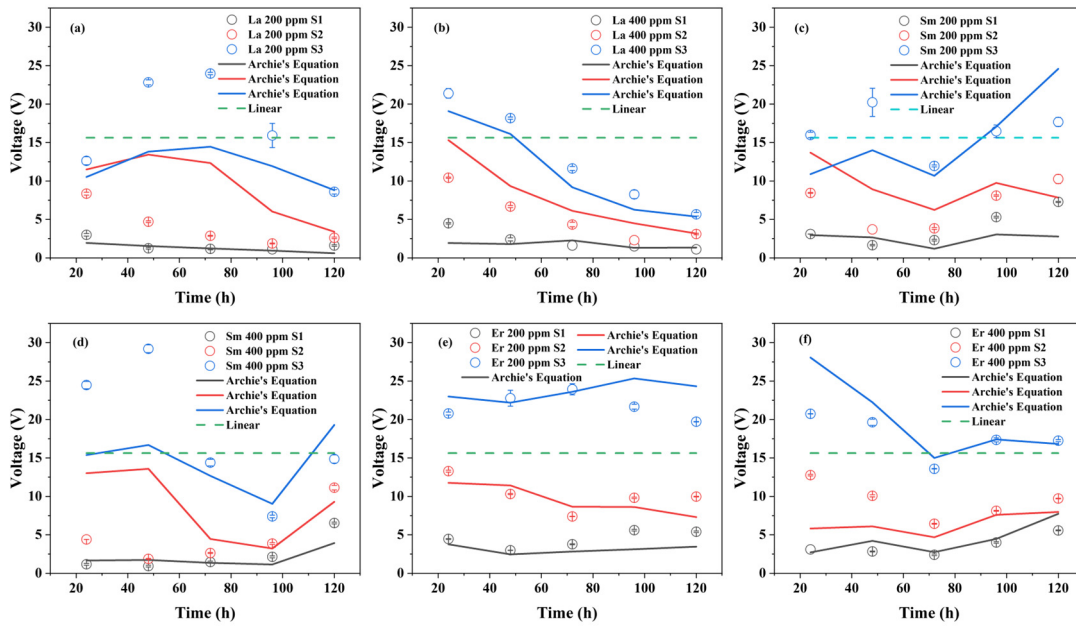


Figure S9. Variations of the voltage of S1, S2 and S3 with the injection of 200 and 400 ppm solution of La^{3+} (a, b), Sm^{3+} (c, d), and Er^{3+} (e, f), respectively.