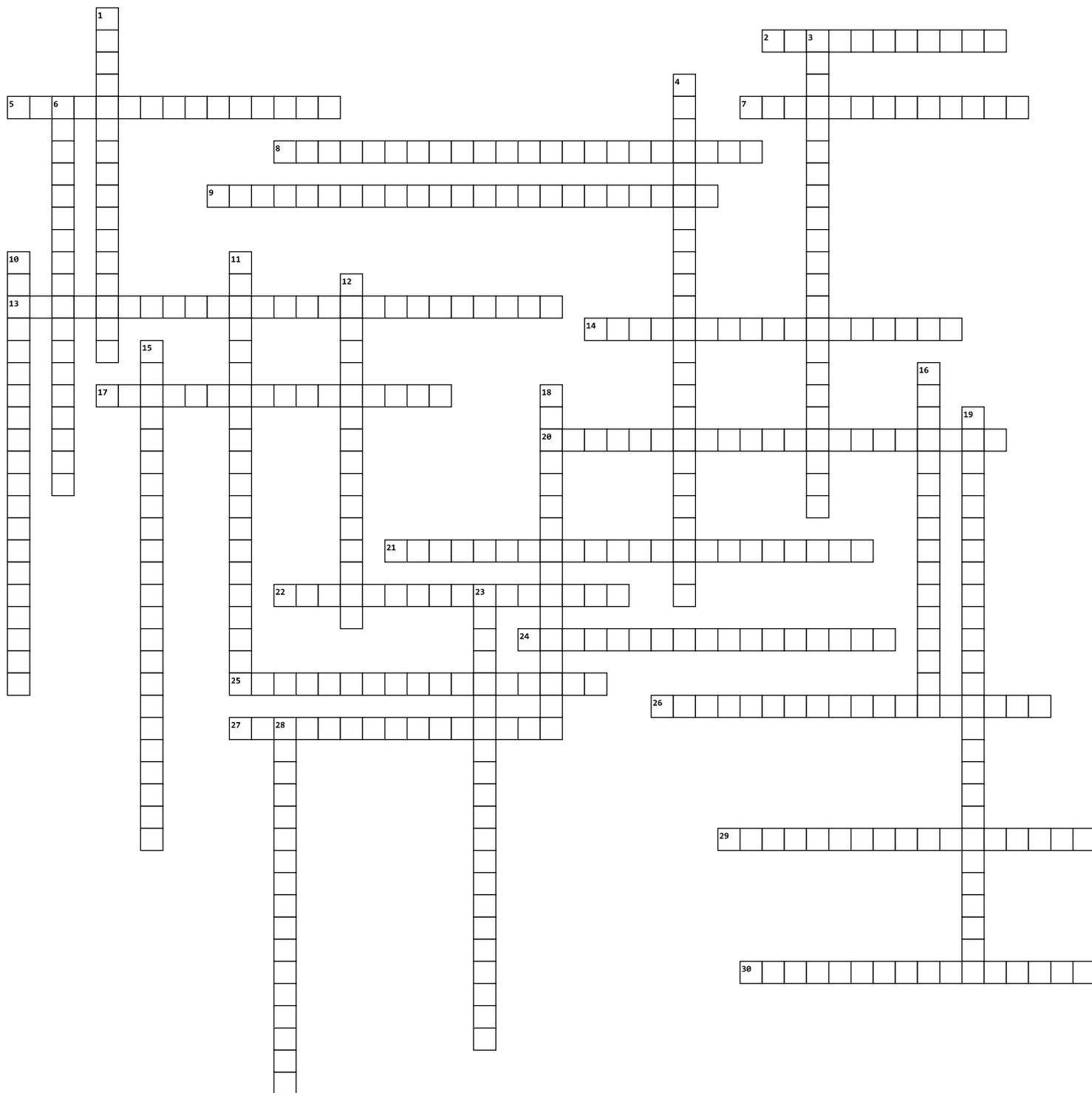


# Electrochemistry



## Across

- 2. A substance that conducts electricity when dissolved in water.
- 5. Coating a metal object with another metal using electric current.
- 7. The branch dealing with stationary electric

## Down

- 1. Study of chemical processes that involve the movement of electrons.
- 3. Region where electric and magnetic fields interact.
- 4. Electric potential due to charge separation in a

charges.

- 8.** Chemical species that participate in electron transfer reactions.
- 9.** Thermal effects accompanying electrochemical reactions.
- 13.** Difference in ion concentration across a membrane driving movement.
- 14.** Volumetric chemical analysis involving electric potential measurements.
- 17.** Migration of charged particles in a fluid under an electric field.
- 20.** Device that generates electricity through redox reactions.
- 21.** Energy associated with charged particles in motion.
- 22.** Purifying metals using electrolysis.
- 24.** Physics involving electricity and magnetism interrelation.
- 25.** Using electricity to synthesize chemical compounds.
- 26.** Formation of a substance on an electrode from its solution.
- 27.** Movement of liquid through a membrane under an electric field.
- 29.** Loss of electrons by a substance during an electrochemical reaction.
- 30.** Study of electric charges in motion.

static field.

- 6.** Overall neutrality of charge in a solution or system.
- 10.** Measure of a material's ability to conduct electricity.
- 11.** Voltage difference driving the flow of electrons in a circuit.
- 12.** Study of the rates of reactions influenced by electric fields.
- 15.** A ranking of elements based on their standard electrode potentials.
- 16.** Separation of ions through a semi-permeable membrane using electric current.
- 18.** Methods of analyzing chemical compositions using electricity.
- 19.** Production of electric current via changing magnetic fields.
- 23.** Removal of substances from a solution by electrolysis.
- 28.** Gain of electrons by a substance during an electrochemical reaction.