Across Clues
1. Transfer of thermal energy (4,8)
6. Rare grey-white metal (2)
7. \( p = k \cdot x \) (6,3)
10. State of matter (3)
11. Energy carrier (3)
12. Decrease in oxidation state (6)
13. Phase of water (5)
14. Small opening (4)
15. Gelatinous substance containing medium for growth (4)
18. Changes from solid to liquid (5)
19. Ionic compound resulting in neutralization (4)
20. Variation of 16 across (4)
21. Used for containing liquids (6)
22. Type of column bed (6)
24. Rip (4)
25. Material that stores energy (4)
27. Increase the rate of reaction (8)
28. \( \text{CH}_3\text{CH}_2\text{OH} \) (7)

Down Clues
2. Anode is one (9)
3. Unit of pressure (4)
4. Pre-SI unit of energy (abbr) (3)
5. Instrument to measure quantity (5)
6. Discoverer of quantum physics (6)
8. Velocity without direction (5)
9. Catalyst support (7)
12. Trace (anagram) (5)
13. Separation unit (7)
16. Sterilisation unit (9)
17. \( \frac{d[A]}{dt} \) (4)
18. Consisting of two or more substances (7)
19. Used to determine PSD (5)
21. Reactor type (5)
22. Tray (5)
23. 1 newton = \( 10^5 \) … (5)
25. Causes motion of air (3)
26. Atomic number 57 (2)