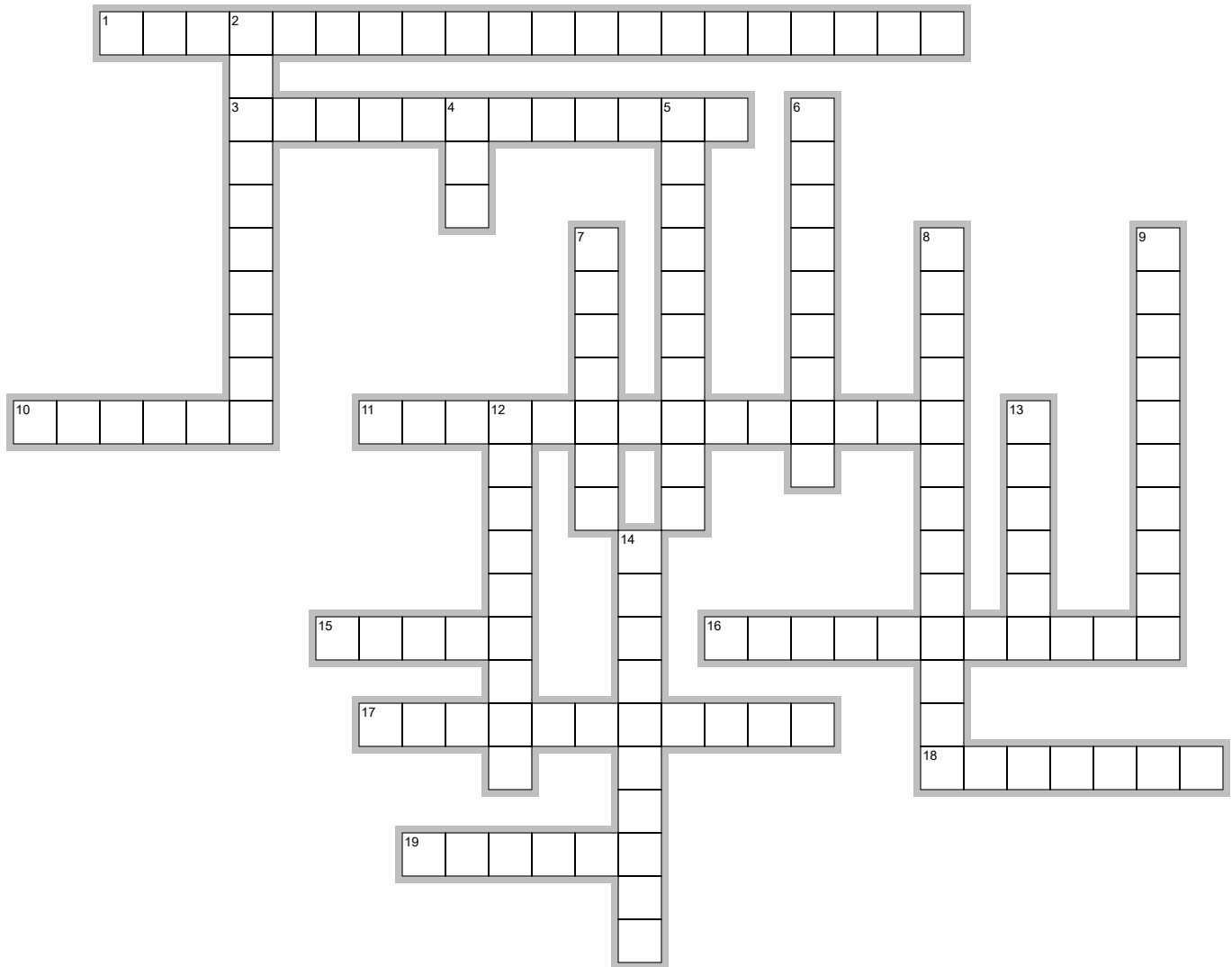


Petroleum engineering-themed crossword puzzle #14

Sobhan Kohanpour



EclipseCrossword.com

Across

1. An equation of state that adds association terms to better handle hydrogen-bonding fluids
3. Variance in molecular sizes
10. Dimensionless number comparing convective transport to diffusive transport
11. Tar mats form via
15. A sudden reduction of pressure to separate lighter components from oil
16. Compounds that increase asphaltene solubility or prevent flocculation
17. An instability causes rapid pressure fluctuations
18. Adjusting factor used to relate lab-scale deposition kinetics to field-scale conditions
19. A specific aromatic solvent commonly used in the field to dissolve asphaltene deposits

Down

2. Asphaltene deposition in a reservoir leads to permeability _____
4. Charged dissolved species
5. Surface-active agent that can adsorb at interfaces
6. Aluminosilicate in clays
7. Substance formed from ancient organic matter
8. Without units
9. Hydrous pyrolysis simulates _____
12. Dimensionless number comparing flow advection time to reaction time
13. SiO₂ polymorph in crust
14. Organic molecules preserved in rocks are called _____