

WORD LIST-2 (OCT 08, 2022)

1. [synthetic](#) (adjective) – artificial, manufactured, simulated.
2. [click](#) (noun) - (in chemistry) a process of joining/snapping together small modular units (molecules) quickly and reliably to generate substances.
3. [pay](#) (verb) - reward, support, back.
4. [chemist](#) (noun) - a scientist who engaged in chemical research or experiments.
5. [pioneer](#) (verb) – establish, develop, originate, create (a new method, area of knowledge, or activity).
6. [click chemistry](#) (noun) - A philosophy of chemistry in which substances are generated quickly and reliably by joining/snapping small modular units together, as in nature.
7. [molecule](#) (noun) – a molecule is made up of atoms bonded together. It is the smallest particle of a substance that has all of the physical and chemical properties of that substance.
8. [analogy](#) (noun) – similarity, correlation, relation.
9. [draw](#) (verb) – produce, bring out, extract.
10. [snap](#) (verb) – click (together), put (together).
11. [sought](#) past tense of [seek](#) (verb) – try, aim, attempt.
12. [mimic](#) (verb) - imitate, copy, reproduce, mirror, echo.
13. [synthesis](#) (noun) - the production of chemical compounds by reaction from simpler materials; (chemical) formation, composition, combination.
14. [indigo](#) (noun) - The indigo plant (*Indigofera tinctoria*) was grown mainly in India. The dye was obtained by extraction of the plant's leaves. The discovery and industrial exploitation of the (artificial) indigo synthesis was a major step forward in the chemical industrial revolution. (Blue jeans are made of cotton denim (fabric/cloth), and the substance responsible for the blue color is indigo (dye) used in coloring them.
15. [extraction](#) (noun) – removal, separation, taking out, production.
16. [consequence](#) (noun) – result, outcome, effect, repercussion, reverberations, ramification.
17. [on the other hand](#) (phrase) – as an alternative, as another option.
18. [synthesise](#) (verb) – integrate, incorporate, put/join together, merge (especially chemically).
19. [ingenious](#) (adjective) – new, novel, creative, innovative.

Note:

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20. flip side (noun) - other side, opposite side, other hand; wrong side, downside, drawback, disadvantage, pitfall.
21. laborious (adjective) - arduous, laborious, strenuous, difficult, formidable, hard, tough.
22. by-product (noun) – secondary product made in the manufacture/synthesis of the principal product.
23. toxic (adjective) – fatal, deadly; poisonous, harmful, dangerous.
24. intermediary (adjective) – intermediate, middle, in-between.
25. building block (noun) – a basic unit/component/part.
26. Lego (noun) - a brand of construction toy consisting interlocked plastic bricks/blocks. The Lego Group is a privately held company based in Billund, Denmark.
27. breakthrough (noun) – very important/significant development or progress.
28. foundational stone (noun) - a basic element of something.
29. namely (adverb) - that is, specifically, in other words.
30. catalyse (verb) – to cause/accelerate some action/process.
31. cycloaddition (noun) - In organic chemistry, a cycloaddition is a chemical reaction in which "two or more unsaturated molecules combine with the formation of a cyclic adduct in which there is a net reduction of the bond multiplicity". An addition reaction that leads to the formation of a cyclic product.
32. azide (noun) - Azides are defined as anions, negatively charged ions, composed of three double-bonded nitrogen atoms (N_3^- or the group — N_3). Azides typically exist as a functional group in azide compounds.
33. alkyne (noun) - an unsaturated hydrocarbon containing at least one carbon-carbon triple bond. Their general formula is $\text{C}_n\text{H}_{2n-2}$ for molecules with one triple bond (and no rings).
34. Copper-catalysed azide–alkyne cycloadditions (CuAAC) (noun) - The reactions of organic azides and alkynes catalysed by copper species represent the prototypical examples of click chemistry. The so-called CuAAC reaction (copper-catalysed azide–alkyne cycloaddition), discovered in 2002, has been expanded since then to become an excellent tool in organic synthesis. It has been used in organic synthesis, medicinal chemistry, surface and polymer chemistry, and etc.
35. ion (noun) - charged atom or molecule.

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36. **triazole** (noun) - a five-member heterocyclic ring containing two carbon and three nitrogen atoms with molecular formula C₂H₃N₃. Triazoles exhibit substantial isomerism, depending on the positioning of the nitrogen atoms within the ring.
37. **cumbersome** (adjective) – complicated, complex; awkward/hard to deal with.
38. **dimension** (noun) – aspect, feature, side, element, facet (of a situation).
39. **organism** (noun) - In biology, an organism is any organic, living system that functions as an individual entity.
40. **living organism** (noun) - a living organism can be defined as anything that has life, consisting of cells as its basic unit of organization (e.g. human being, plants, animals & etc.).
41. **figure out** (phrasal verb) - resolve, work out, make out, resolve, unravel, fathom.
42. **strain-promoted azide–alkyne cycloaddition, or SPAAC** (noun) – The strain-promoted azide alkyne cycloaddition (SPAAC) is a powerful tool for forming covalent bonds between molecules even under physiological conditions, and therefore found broad application in fields ranging from biological chemistry and biomedical research to materials sciences. The requirement for copper (Cu(I)) in CuAAC leads to complications that result from the metal ion's interactions with the protein. In principle, a similar but metal-free alternative approach to coupling could employ the reaction of an alkyne that is strained in combination with an azide (strain-promoted azide–alkyne cycloaddition, SPAAC).
43. **persevere** (verb) – persist, continue, carry on, keep going.

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