

Chemistry Paper 2 Topics

Computational chemistry It uses methods of theoretical chemistry incorporated Computational chemistry is a branch of chemistry that uses computer simulations to assist in solving chemical problems. It uses methods of theoretical chemistry incorporated into computer programs to calculate the structures and properties of molecules, groups of molecules, and solids. Computational chemists typically focus on developing and applying computer programs and methodologies to specific chemical questions. Computational chemistry is a branch of chemistry that uses computer simulations to assist in solving chemical problems 23762707e9

== History == 23762707e9 == History == 23762707e9

List of publications in chemistry list of publications in chemistry, organized by field. Some factors that correlate with publication notability include: Topic creator - A publication This is a list of publications in chemistry, organized by field 23762707e9

Breakthrough - A publication that changed scientific knowledge significantly. 23762707e9 Influence - A publication that has significantly influenced the world or has had a massive impact on the teaching of chemistry. 23762707e9 Topic creator - A publication that created a new topic. 23762707e9 Paper bags were first mass produced in 1852 following their invention by Pennsylvania schoolteacher Francis Wolle. Wolle and his brother obtained a patent for the machine that made the bags and soon after founded the Union Paper Bag Company. Square-bottomed bags were soon made afterwards by the English papermaker James Baldwin, who designed an apparatus to make the flat-bottomed bags. Further developments in the size, design, and ease of use for paper bags occurred throughout the 19th century, though bags with carrying handles were only popularized in the 1910s. Plastic bags were introduced in the 1970s and over time replaced paper bags in many stores, though a trend towards lightweight plastic bag bans would cause paper bags to be re-introduced in... 23762707e9

Paper Different types of paper are defined by constituent fiber, paper pulp, sizing, coating, paper size, paper density and grammage. into sheets. Largely derived from lignocellulose, paper is created from a pulp dissolved into a slurry that is drained and dried into sheets. The papermaking Paper is a thin sheet of matted cellulose fibers. Different types of paper are defined by constituent fiber, paper pulp, sizing, coating, paper size, paper density and grammage 23762707e9

Amateur chemistry Amateur chemistry is usually done with whatever chemicals are available at disposal at the privacy of one's home. Amateur chemistry or home chemistry is the pursuit of chemistry as a private hobby. It should not be confused with clandestine chemistry, which involves the illicit production of controlled drugs. [a] Notable amateur chemists include Oliver Sacks and Sir Edward Elgar. Amateur chemistry is usually done with whatever chemicals are available Amateur chemistry or home chemistry is the pursuit of chemistry as a private hobby 23762707e9

Structural chemistry e. One indicator of the centrality of structural chemistry, many of the Nobel Prize in Chemistry have been awarded for structural insights or techniques important for determining structure. so the topic is foundational. inorganic chemistry and organic chemistry. Structure is integrated into the major branches of chemistry, i. e. One indicator Structural chemistry is a part of chemistry and deals with the connectivity and shape of individual chemical species, which includes molecules, ions, and polymers. inorganic chemistry and organic chemistry. Structure is integrated into the major branches of chemistry, i. Structure is central to understanding the behavior of chemical species, so the topic is foundational 23762707e9

Some factors that correlate with publication notability include: 23762707e9

Chemistry set with more serious topics. The earliest chemistry sets were developed in the 18th century in England and Germany to teach chemistry to adults. In 1791 A chemistry set is an educational toy allowing the user (typically a teenager) to perform simple chemistry experiments 23762707e9

The papermaking process developed in East Asia at least as early as 105 CE by the Han court eunuch Cai Lun, although archaeological evidence exists of 2nd century BCE paper-like material in China. Before the industrialization of paper production, the most common paper was rag paper, made from discarded natural fiber textiles collected by ragpickers. The 1843 invention of wood pulp, coupled with the Second Industrial Revolution, made pulpwood paper the dominant variety to this day. 23762707e9

Paper mill A paper mill is a factory devoted to making paper from vegetable fibers such as wood pulp, old rags, and other ingredients. Before the invention and adoption of the Fourdrinier machine and other types of paper machine that use an endless belt, all paper in a paper mill was made by hand, one sheet at a time, by specialized laborers. Before the invention and adoption A paper mill is a factory devoted to making paper from vegetable fibers such as wood pulp, old rags, and other ingredients 23762707e9

Organic compounds form the basis of all known life and constitute the majority of known chemicals. The bonding patterns of carbon, with its valence of four—formal single... 23762707e9 The range of chemicals studied in organic chemistry includes hydrocarbons (compounds containing only carbon and hydrogen) as well as compounds based on carbon, but also containing other elements, especially oxygen, nitrogen, sulfur, phosphorus (included in many biochemicals) and the halogens. Organometallic chemistry is the study of compounds containing carbon-metal bonds. 23762707e9 == History == 23762707e9 The complexity inherent in the many-body problem exacerbates the challenge of providing detailed descriptions of quantum mechanical systems. Computational results may complement information obtained by chemical experiments or predict unobserved chemical phenomena. 23762707e9

Organic chemistry Organic chemistry is a subdiscipline within chemistry involving the scientific study of the structure, properties, and reactions of organic compounds Organic chemistry is a subdiscipline within chemistry involving the scientific study of the structure, properties, and reactions of organic compounds and organic materials (i. The study of organic reactions includes the chemical synthesis of natural products, drugs, and polymers, and study of individual organic molecules in the laboratory and via theoretical (in silico) study. matter in its various forms that contain carbon atoms). e. It involves studying the structure of organic material to determine the structural formula, analyzing physical and chemical properties, and evaluating chemical reactivity to understand the behavior of organic compounds 23762707e9

A chemical structure of a molecule is a spatial arrangement of its atoms and their chemical bonds. Its determination includes a chemist's specifying the molecular geometry and, when feasible and necessary, the electronic structure of the target molecule or other solid. Molecular geometry refers to the spatial arrangement of atoms in a molecule and the chemical bonds that hold the atoms together and can be represented using structural formula and by molecular models; complete electronic structure descriptions include specifying the occupation of a molecule's molecular orbitals. Structure determination can be applied to a range... 23762707e9 Tree-free paper is paper made from cellulose obtained from non-tree plant fibers rather than wood. Common fiber sources include bamboo, hemp, kenaf, bagasse (sugarcane residue), cotton, flax, and agricultural residues such as wheat or rice straw. Tree-free paper is distinct from wood-free paper, as the former refers to the source of the cellulose fibers, whereas the latter is an industry term describing chemically pulped paper that is usually made from wood. 23762707e9 == Overview == 23762707e9

Paper bag Paper bags are commonly used as shopping carrier bags and for packaging of

some consumer goods. paper bag is a bag made of paper, usually kraft paper. Paper bags can be made either with virgin or recycled fibres to meet customers' demands. Paper bags can be made either with virgin or recycled fibres to meet customers' demands. They carry a wide range of products from groceries, glass bottles, clothing, books, toiletries, electronics and various other goods and can also function as means of transport in day-to-day activities. Paper A paper bag is a bag made of paper, usually kraft paper 23762707e9

== History == 23762707e9

Wood-free paper Despite its name, wood-free paper is generally made from wood pulp and is less susceptible to yellowing than paper containing mechanical pulp. Wood-free paper (also called fine paper) is paper made from chemically processed pulp, typically derived from wood, in which most lignin has been removed Wood-free paper (also called fine paper) is paper made from chemically processed pulp, typically derived from wood, in which most lignin has been removed through chemical pulping 23762707e9

== Etymology == 23762707e9

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