

# The Race Champion in the World

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**Abstract:** When a chemical change occurs, the atoms of the reactants are regrouped into new substances, and the species, number and quality of the atoms do not change, so the matter does not die.

**Key words:** race champion in the world; fastest, molecules

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The molecules of matter are constantly moving, which is known to everyone.

Distance can smell of ammonia are stimulating, the wet clothes will be dry in a cool place, this is due to the motion of the ammonia molecules, water molecules diffuse into the air.<sup>1</sup>

Sucrose was lost in the water and was due to the spread of sugar into the water. In the molecular world, then, who runs fastest? The fastest runners are the gas molecules. And in the gas molecules, the least mass of the hydrogen is the fastest. It is a veritable champion of the molecular world. When 0 °C, the rate of movement of the hydrogen molecule is 1700 meters per second, equivalent to 6120 kilometers per hour.

This is faster than the fastest jet, and if there is no barrier, the hydrogen molecules can circle the earth in just 6.5 hours. Other molecules with larger molecular weight are slower, such as oxygen molecules moving at a speed of 1,550km/h.<sup>2</sup> Now that the gas molecules are running so fast, why doesn't the scent of the perfume on the table smell all at once? Good question!

According to the velocity of the general gas molecules, the gas molecules run a few meters only a hundredth or a second of a second.

But in fact, a large number of molecules are doing unordered motions, and there are numerous

collisions between molecules and molecules that keep the movement of molecules moving in the direction of change.

For a hydrogen molecule, it 140 billion to collisions with other molecules per second (discussed here are in normal temperature and pressure), in 1 cubic centimeter of hydrogen, hydrogen molecular collision 19 trillion times per second ( $1.9 \times 10^{29}$ ).

Such frequent collisions make it impossible for the gas molecules to run straight forward, but only to move in zigzags, which slow down dramatically. Life chemistry. Explore paradise. Over 2400 years ago, ancient Greek philosopher democritus expressed in a poem is the viewpoint of matter: "what was in it, any thing will not disappear, seems everything is dead, but actually life-in-death; just like a spring rain fall to the ground, suddenly lose sight; but the vegetation to absorb it, become Mosaic fruit -- is still thriving."

What does the poem mean? May li mei and wang fang tell you! Li mei: this poem is to explain in terms of molecules and atoms: matter is made up of molecules, atoms and other particles, and molecules are made up of atoms.

These changes are simply the recombination of atoms into molecules, and the types of elements do not change. Wang fang: in the physical change, the molecules that make up matter, the atoms themselves.<sup>3</sup>

When a chemical change occurs, the atoms of the reactants are regrouped into new substances, and the species, number and quality of the atoms do not change, so the matter does not die.

After reading li mei and wang fang's explanation, I think you must know what's going on. Material immolation essentially is that no matter what happens, the species of molecules may change, but the atomic species that make up matter will not change. Data query : For many years, chemists have been longing for the true nature of atoms and molecules can be observed, so that a more in-depth

understanding of material composition and structure, to understand the rules of chemical change, realize the dynamic control of the atoms and molecules.

The invention of the scanning tunneling microscope (STM) has made it possible to observe the dreams of atoms and molecules.<sup>4</sup> Using the scanning tunneling microscope, people can directly see the images of atoms and molecules, and can directly conduct single-atom and single-molecule operations.

1 yen COINS now look at the surface, it is made of aluminum, so if use 100 million times the magnifying glass to observe the surface, you can see the surface is arranged very neat ball about 1 cm in diameter, the ball moves slowly, and if the watch carefully, you will find there is misty between the ball and the ball in the drift, the ball is aluminum atoms (accurately, aluminum ions), cloud is the same thing.

Look at the next table salt particles, it is less than 2 cm in diameter and about 4 cm, composed of two ball and two balls and white arrangement, because no one yen COINS as something like a cloud, so we can see the lower lattice pattern, the two balls are sodium and chloride ions.<sup>5</sup>

Look at water, it like a maple tree fruit, a large particle has two show eight word is arranged on both sides of the small particles, a set of two very active movement, large and small particles can each other together like spring scale, maintain the fruit shape, small particles is hydrogen, large particles are oxygen, called the maple fruit sample particles of water molecules.

If we look at the matter around us, we can divide it into three categories. Is one of the most basic material particles atoms (or ions), a few atoms together is molecule, but in the final analysis the material is made of atoms together, about 100 kinds of atoms, the resulting molecules up to millions of species, and the new molecules are produced.<sup>6</sup> The reincarnation of reincarnation in chemistry According to the principles of chemistry: atomic conservation and mass conservation

A C atom, can generate a CO<sub>2</sub>, plants through photosynthesis to CO<sub>2</sub> and H<sub>2</sub>O is converted into sugar, humans will plants as food, and so the C atom to the human body, after death, the atom did not disappear, he will also convert, after conversion may appear on a pig, when people kill pigs eat, this C atoms and will appear in the human body.

And so on, not only C element is such, H, O, N elements, too, a little magic, is you of a few atoms

may be hundreds of years ago the emperor that a few atoms, or when you go visit to chairman MAO's body, your body may also be breathing into a few atoms chairman MAO, he atoms becomes part of your body. (this is reincarnation), of course, is part of a few (can guarantee certainly smaller than 1/6.02 of 23 x 10 square).<sup>7</sup> From the reincarnation, you are likely to be several great man of the reincarnation of the atom, of course, this doesn't mean you will become a great man, the key depends on how these atoms combination, how do you mix.

Even if you had reincarnated as 100 percent of a great man, the atom would have been a pig and a pig. So students, the same textbooks, the same teachers, depending on how you combine, there is nothing absolutely natural for a normal person to read, or not to read. This article is purely scientific research, which inspires my students to learn knowledge, and in addition to my limited level, I have to correct and supplement what is lacking. To read is to learn how to use it, rather than simply to deal with several exams.

Come on, class. The world is different from the big one People do not know exactly how their species evolved from apes to humans. Darwin's vision should be "gradual", but the fossil proved difficult to prove this "gradual". The history of human prehistory can only be inferred from fossils and unearthed artifacts, or the dating of a quasi-culture in prehistoric times with carbon-14.

It is only after the human being able to learn the ropes and create the words that the civilization of the human beings is made official -- in a word, with the words, the knowable history. Because of the knowable history, the capacity of the human brain has been greatly increased, not only to store instant messages, but also to contain the information of the past.

A clever parrot, it is impossible to tell you when you come home, three hours ago the thief visited; But people can talk about their childhood fun.<sup>8</sup> More importantly, the increase in brain capacity brings wisdom, making it possible for people to know the world.

Humans divide the world into macroscopic and microscopic parts. About macroscopic world, although the geocentric theory to the heliocentric theory has experienced a very long time, however, human beings finally to Newton's universal gravitation theory and Einstein's theory of relativity, well explain all celestial laws.

Einstein predicted that the speed of light is the speed of the universe, and that no other motion can travel faster than the speed of light.

In a particle accelerator, the force of one unit can accelerate the particle to close to the speed of light, but with a few times the force, it can't accelerate the particle to faster than the speed of light. This seems to prove the accuracy of Einstein's prediction.<sup>9</sup> In the microcosm, however, Einstein's brain was broken. Although, for the first time in 1905, he presented indisputable evidence of the existence of atoms.

The general public for the understanding of the atom, about atoms is that almost everywhere can see figure: rapid rotation of an electron around the nucleus, and there are a few elliptic coil said movement trajectory. This image is in 1904 by a Japanese physicist named nagaoka half aso created, although it is totally wrong, but particularly thorough popular feeling, even at CERN put it as a symbol of their website.<sup>10</sup> Now, we know that there are three properties of atoms: small -- you want to see an atom in a drop of water, and you have to enlarge the water to 24 kilometers wide; More than one billion atoms in the human body; Virtually indestructible - it is said that the life span of the atom is 1035 years.

Atoms so, when we die, we have not disappeared, but wandering, and at least a few years later might be rearranged into a leaf or something part of the tortoise bastard, now we own the body, it may be the Buddha, or would you like any of the ancestors of atoms.

In this sense, reincarnation is formed.

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