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Review Article

Water as Medicine

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Introduction

Water is considered the most pronounced "abnormal" substance. These properties give it hydrogen bonds. Water moves and plays a crucial role in the processes of inanimate and living Nature. Life in the water originated. And we started life with moving water. Before the birth of the baby, the amniotic fluid that provided the life of the baby before birth departs. They contain nanoparticles of ancestral organisms. On them, on matrices, cells of the growing child are built from products of reactions of moving water with hereditary signs. Water provide movement child, protect from influences from outside, participate in exchange substances. Analysis of water learn about the development of the baby. Moving water helps a person even to appear in the light. The unified power system of the polymer makes it possible to instantly transmit information to the entire body through the soliton mechanism. Baby to the exit in the world already about many ways has misconception. That a person died, judged by cardiac arrest, cessation of blood circulation, movement of water, providing the body with water and the formation of the necessary vital activity of the body of substances, and this trouble is incorrigible.

Polymers of water and hydrogen bonds

The O, element No. 8, has own 6 valent electrons, they give two of their pairs, and to create 8-electronic structure of the remaining 5th and 6th electrons are taken from H according to the electron and create a molecule of H_2O. Theorists of spectra of single H_2O molecules in the gas, determined the strength of the chemical bond O-H and found that the covalent component due to the capture by an atom O of electron from H and formation of dipole (-- +), 10 times stronger than an ionic component, and when bonds of the hydrogen, Van Der Waals negligible. These facts, reasonable for single molecules, are dogmatically attributed by adepts to the condensed phases of water and ice, where the molecules touch, but at small sizes H and O of the neighboring molecule give hydrogen bonds, they are not present in the gas, except of very rare dipoles. In water H and O of neighboring molecules are close, and 2 of their electron pairs atoms of O can give as the donors to protons of neighbors. Thus, each molecule of H_2O with its 2 protons can give bonds to two neighboring H_2O through their donor pairs of O, and those molecules in turn will also create bonds with the next neighbors, etc. So hydrogen bonds create a polymer that is sharply different from a single molecule. Hence, all the "anomalies" isn't of H_2O, and mental abilities of believers. "In one cart harness nemozhno Horse and trembling deer", understood even the old Mazepa in" Poltava " of Pushkin, but the adherents of theorists harness amorphous polymers in one cart with gases or metals. In the liquid, and not gas from other relationships and three-dimensional structures is dominated short directed covalent, not long-range spherical symmetric Coulomb. There is the significant differences of the properties in the bulk and on the edge of the fractal, which gives the additive nature of the dependence of the energy of the composition, localization of reactions in the framework of short-range order that is not assumed in the classical theory. Water is amorphous body, so the strain breaks not only weak intermolecular connections, but also strong molecular. A shift in any of the bodies leads to the rupture of chemical atomic and molecular bonds. The sp3 hybrid orbitals and the two lone pairs of O identify short-range order structural units, the tetrahedral environment and possibility O having coordination number 4. These ideas about the structure of water developed in many works[1-6]. Fractals $(H_2O)n$ create glassy polymeric meshs of the structural units. Models for water of gas or metals with long-range spherical symmetric Coulomb forces are inadequate. The theory of all the electrons in the zone requires amendment, "effective mass of electron me " type of activity in the theory of solutions, realize a meaning of a and f at any ionic strength. But me sometimes can be with (-) values, so this "corrects" gives a designs without physical meaning. Submission of zone model for short-range directional covalent bonds isn't adequate and so not real. A amorphous model of solids with short range connections and a variety of forms more precisely. As noted Pauling [7], the theoretical physicists solutions of Schrödinger equation for any complex substances for such a long time haven't, so we are must continue of using simple, reliable structural chemical pictures. Phenomenology can't replace the atomic and molecular proposals about material and their interactions. Polymers of H_2O structure resemble amorphous SiO_2 with covalently linked structural units, as to their successful name by Muller [8] on the basis of his valence hypothesis. They ask the middle order of the atoms in connection with valence electrons, and depends on long-range order of a amorphous type body. Analysis of the properties of amorphous structures model conditioning theory, leading to the absurd without physical meaning is not wiser than the gas model, where the

amendments at least not lose physical meaning [8]. But how not to be thrilled at the word "theorist"!? But covalently linked structural units of polymers remain on own feets and at low energy effects of simple vibrations of water disintegrate into ions, radicals and a number of structures of metastable nano products [9]. However, infection with tin plague only in the presence of the seed and the atmosphere made it clear the role of metastable Ic, built epitaxially on the seed of nano particles, able to pass into the defects of the protective layer [9] and the possibility of infection under an excess of liquid water, absorbing nano particles stable phase [10] when moving occur in polymers lacunae and protect nano structures from macro molecules [11]. The most unexpected for the adepts was the fact that there were no differences in the binding energies of covalent, ionic and hydrogen in water. The polymer is a single power system, in which all connections are equal, as shown in [12-14], confirmed by one, not three lines in the NMR spectra. In benzene, the fact of equality of bonds of alternating single and double ties with one line of the NMR spectrum accepted, but in water, such a phenomenon causes persistent disagreement of dogmatists. Signal break ties from shocks in water is the sum of two equal connection H-OH is with the preservation of pairs of electrons at the O atom, i.e., dissociation into ions of H^{+}+OH^{-},(breaking ionic bonds), or with a gap pair, on the formation of radicals H+OH (breaking covalent bonds) [12-14]. Radicals by reactions H+H = H_2 ; OH+ OH = H_2O_2 give hydrogen peroxide, a necessary product for life. Peroxide decomposes by reaction 2 H_2O_2= 2 H_2O_2 H_2 + O_2 Thus, from a weak fluctuations there was a formation of products which we are able to receive by electrolysis. If you make long-term fluctuations, the accumulation of products Red/Ox system. Note that even after one push of the vessel with water, the relaxation of the signal from the obtained products does not lead exactly to the initial potential difference. In other words, water is a galvanic cell. the battery is constantly giving current. Fed by the formation of Red/Ox products oscillating from temperature fluctuations of H_2O, although giving only millivolts. But constantly and without any effort and energy consumption of a person. The author haven't engineering imagination to make such a source of current on the free energy received from the luminaries of space. But the creation of the mighty electrical engineering of the present days began with a frog's foot twitching on Galvani's balcony and the observation and intelligence of Volt, who noticed that twitched from touching the iron grate when it hung on a copper hook. Volta was a physicist, not a biologist, and the experiment was conducted not on a frog's foot, but on another electrolyte available to him. On his tongue, pressing his teeth to it from above and below. Eiter the same coins, not feeling the current, or different, feeling of acid. At the constant oscillation of the waves, think about creating a mechanochemical current source from simple water vibrations would be worth it. Do not block rivers with dams, destroying of all fish farming. Not creating on place fertile land destroying agriculture, entire vegetation reservoirs, often breakthroughs dams ruining and themselves creators, and living nearby population. But this battery inside the body with the movement of water in the capillaries constantly produces not only treatment, and signaling of injuries, violations, diseases, immobilizing the body to resist troubles. No wonder medicine uses electrophoresis methods - the body itself produces this treatment with its battery, and has taught people this. And electrophoresis delivers in disturbed areas of the desired substance and helps to take for the disposal of harmful contamination of the capillaries. Wise nature does everything to preserve life, and monotheistic religions hate the polytheism of our wise ancestors, naturalists – in terms of boss of the cult - witches. Knowledge that is terrible for lies. And science is called to seek the truth and fight against lies of any kind. What ever you call it, what corruption it does not subordinate. The author of these notes about electrical mechanochemical phenomenons has no enough engineering imagination. And Volta had imagination to make only a battery of constant current. And the electrical industry is created to obtain a large AC power, and this was preceded by the works of throughout the X1X century, even then the XX Let us remember at least about Tesla. One should hope for the emergence of researchers with an engineering spark of imagination. In the meantime clear to us the fact of formation of H_2 and O_2 [15] which supports the hypotheis of abiogenic occurrence of O_2 [16-18]. With appearance of a liquid H_2O from the melting of the Earth's ice shell with its constant fluctuations from the energy of external cosmic influences, and not from photosynthesis by "green friend",even for his appearance like live on Earth O_2 already should to be. It was at the incommensurability of land and water areas, if H_2O occupies 71% of the Earth's surface. Despite fact a few areas of land (deserts, rocks, high mountains, permafrost zones are simply unsuitable for the existence of plants, not to mention the seasonal and diurnal stops of photosynthesis). Photosynthesis has many merits, and it does not need to attribute strangers by of the incorrect walking opinion views. Breathing with air containing CO_2. useful, but without O_2 it just pointless. All knows about the therapeutic properties of H_2O_2. There is an eye, but it is not fit for reading or work, afraid of bright light. Constantly tears too at the same time with him and from the left working eye at overload. H_2Se a strong poison, and obedient lackeys, that of V.O. poisoned, long age in grave. So is not H_2Se in nature, and evolution could not learn to fight it. It begins to smell only at 10 times the permissible limit, and at 50 times causes vomiting and severe headaches. Its analogue H_2S smells strongly if it is still therapeutic, and to the state of poison a person will not allow it, feeling the strong smell. The trouble with H_2Se was also helped by moving H_2O, assisting to blood motion by reducing blood viscosity with foods and removing harmful waste.

Ownipotent medicinal Properties of water

The role of water as a source of origin of life on Earth and specifically each of us is clear. Interestingly, in the instructions of poisons for cockroaches it is said that if the insect finds and drinks water, the effect of the poison will stop. It's a joke, but and they can't live without water. Without it there is no life. The role of water

in growth in the womb was said, but water is no less important in diseases, injuries, helping the body not only in the treatment of disorders, but also in circulation as a supplier to him all necessary. Blood circulation is the movement of water throughout the body thanks to an extensive network of capillaries, constantly replenished by the heart with the frequency of the waves of the seas where life originated. Another important property of water polymers should be mentioned. Unified power system with "abnormally" high numbers of proton energy transfer in polymers instantly reacts to any disruptions, soliton mechanism gives a signal to functional organs to quickly mobilize their immunity to eliminate the trouble. Nature is wise. But meanness talented people and know how to work around it. The corrupt official, the inflated Director 40 years tried turn the honest V.O. into the his lackey. He had a lot of them, but he needs namely in steady V.O! Director alternated receptions of influence by methods a stick and a carrot. These attempts were unsuccessful, and he is using the mass of his loyal lackeys. They hounded V.O. by the hydrogen selenide H_2Se, making of V.O. invalid. But V.O. lives for more than 40 years with one lung. "The doctor" of kind like Director for 6 months couldn't detect pneumonia, and if there wasn't V.O. with 'iron health' and water, he would long ago have been in a "better world". A young girl just after school instantly discovered a neglected pneumonia, at once send V.O. with this diagnosis to the real doctor carefully treated V.O. for 3 months. She established the intentional by "great doctor" loss of half of the lungs. V.O. himself had already done breathing exercises with moist air and with CO_2. And the probably presence of H_2O_2 in moving water oxidized H_2Se. Movement (blood circulation) helped to remove harmful oxidation products too. The health of V.O. becomes better. But then V.O. for non-cleary purpose was sent by a "main doctor" to the hospital. So he was coughing and sneezed. This is very clear at half of the lungs and at destroyed mucous membrane. This was clear For V.O, and not for such Aesculapius. There "wise doctor" without viewing suspected lung cancer and to check the availability of the causative agents of whooping cough took the highlight the allocation of mucoid sputum for analysis. The nurse, not having found in them anything, said that V.O. badly spit, it is necessary to do a biopsy: to scrape up material of lungs for the analysis. V.O. was ready still 100 times spit not caring, tried to resist brutal procedure. After all, it is obvious that poisoning and the loss of half of the lungs is the cause of the cough. But Aesculapius was adamant and he, spitting on themselves, not for analysis, agreed endure this brutal procedure, under which miracle not suffocated. But the state of health deteriorated sharply. Of a practically healthy person, he got another 2 weeks to rehab from this "bio- dog", calling it "a dog's life." Then "doctors" decided to replace to him "bleeding". It was before democracy, then tried to cure, instead of to throw out from hospitals in 10 days put to stay in hospital by "rules " of democracy. At VO's categorical refusal to change blood, they took a large blood test tube from a vein (at was in that time) for analysis, allowing him leave the hospital. They said that the result of the analysis will be sent to the clinic. V.O.'s blood was good, as he knew. So that lives with its blood, and here is already more 40 years even with one lung, helping with the improvement of blood circulation abundant intake of water in the morning. If he does not do this for a few days, begins unpleasant dryness in the mouth – as a sign of lack of water to the body. Need it to correct. Lives, cursing the boss and his lackeys, with gratitude remembering a caring young girl of x-ray and the careful doctor-therapist. But H_2Se dramatically deteriorated and vision, killing part of the sensitive solar cells of the eyes. And there was a hemorrhage in his right eye. Treated with terrible injections every other day under the eyeball to help blood circulation. The right side of his face was blue-yellow. V.O. always washed of his eyes with NaCl solution to the ocular circulation clearing the pathways and supplying them with the necessary products of moving water. Maybe in 40 years, all the H_2Se from the lungs and eyes is removed, but nothing in life is without consequences. Functions of self-defense of an organism, immunity was irreversibly broken. The cough and from the nose and eyes constantly flowing continued. The water all the time to continue therapeutic activities. So health becomes better. It is difficult to say what is more important from its help - the creation of proton conductivity for rapid brain information about the need to include the forces of immunity, or the products of reactions of moving water. especially H_2O_2. Although O_2 dissolved in the blood comes from the lungs, but its activity is significantly lower than that of H_2O_2, a very effective healer. Recently, doctors are all talking about wonderful drugs that remove radicals and oxidants, but this does not seem to be a very correct point of views. Breathing with air containing CO_2. useful, but without O_2 it Just pointless. And everyone knows the therapeutic properties of H_2O_2. It is good that the right eye stayed, but it is not suitable for work, afraid of bright light. Constantly tears at the same time with him and the left working eye from overload. H_2Se a strong poison, and obedient lackeys, which poisoned V.O, long in grave. There is no H_2Se in nature, and evolution could not learn to fight it. It begins to smell only at 10 times the permissible limit, and at 50 times causes vomiting and severe headaches. Its analogue H_2S smells strongly when it is still therapeutic, and to the state of poison a person will not allow it, feeling the smell. The trouble with H_2Se was also helped by moving H_2O, helping blood circulation by reducing blood viscosity with ready-made foods and removing harmful waste. Life 40 years stays with 1 lung and 1 eye. The Director knew his role. For some reason, he's still not a Nobel laureate. He isn't worse than Sakharov, Gorbachev Solienizer, Obama and Einstein. Not alone V.O. his sacrifice. With success, he "worked". And hates and not forgotten of V > O for his studies of H_2O. Ad V.O. always had a good memory. Easily traveled on Bicycle. Not afraid of heights. But started having dizziness, loss of memory, and for a while, the unreliability of the feet. People said, " From old age! "The right occipital part of the head above the right eye is particularly painful, especially from bright light. Quickly help turning it off, eye washing, wet massaging the right side of the nape from the neck to the top and drinking water before going to bed. Pain from the right back on the side of a hemorrhage the right eye. There, the

capillaries narrowed and allowed blood to flow to the brain. Taking the hypothesis into account, V. O. with pain gave rest to the eyes, suspending work. In the right part of the head massaged narrowed capillaries with interference of blood and H_2O to move. To restore the stability of the legs and memory helps the movement of H_2O removal of platelets accumulated in the capillaries. V.O. fell while walking and even standing still. For more than 10 years, almost does not fall. However, sometimes at night there are pains from cramps of legs that it is impossible to move them. But hands work. For struggle with cramps V.O. holds near bed water. Massaging the feet moistened with water, restores their ability to move. He can't get up abruptly, moving from sleep to wakefulness. And do not forget to drink water, even if no dry mouth. The CHIEF dentist pulled out 2 healthy teeth instead of the diseased 1. This caused intoxication and the development of inflammation in the gum at the tooth root and General intoxication. And after rinsing the mouth with a warm moving solution of salt, sodium and KJ crystal. Water gives for treatment products, soda and warmly-gentle regime, ions K+ + need for sustain with ions Na+ caregiver pressure in cells, ions J--for support immunity. Torn teeth can't return, but the intoxication is stopped and the pain is almost too. The goods of moving water gives for new cells material. The breaking products of water polymers build them on a matrix structure that is within their reach. In one sea people bathe and fish swim, and the cells grow in each their own cells,- growing from a common H_2O, but in own matrices. In movement H_2O useful materials more, than in oscillating only from temperature fluctuations. Experiments with the growth of Kalanchoe buds showed a difference in their development when a H_2O and H_2O after fluctuations under equal conditions of the H_2O volume, temperature, soil composition [19]. Water was pumped back and forth through the tubes to increase the contact of the surface with the walls of the tubes. Rising swing times and getting H_2O from melting ice also help growth, but not to the same extent. From H_2O the Ic structure grown on the seed matrix infects Sn. Nature is one, its laws cannot be rewritten to please the authorities. Nature is wiser than men. Bosses and with her fighting, destroying poisons the whole system of protecting the body mucosa against invasion of harmful microbes. V. O.has constantly flowing from the nose and eyes, and often unstable blood pressure from 140/100 to 80/40. The doctor prescribed him nitroglycerin, so the pressure dropped to 60/40, V.O. could not move for almost a day. Drunk in the morning H_2O helped him.

Nano particles and examples of their role in any areas

The role of metastable nano impurities is undeniable. The basis of living and inanimate natural processes is the movement of metastable nanoparticles. This is known about diseases biology, about natural and technical processes chemistry, physics, about global processes Earth Geology. Ancestors feared the approach of comets. Their tails are always full of nanoparticles from space, and they carry epidemics. And in everyday Affairs, the role of metastable nano particles is seen in constant motion with the formation of nano particles for natural processes, refuting the lie about the impossibility of this because of the strength of The O-H bond in a single water molecule. Polymer and molecules are not the same. Of water movement play an important role in the life of the nanoparticles and give rise to any processes. The development technology need new substances, their clearing, analysis, It started with the gray tin αSn. With the development of its semiconductor properties masses of compounds with covalent bonds and diamond-like structure was born But αSn have a single crystal could not. The paper tells about its obtaining even any form, creating a p/n transition and application in a number of practical problems. The transfer of βSn to αSn with a decrease in its d and an increase in volume by 26.6% gives a powder of a need dispersion and purity in a simple way, but a seed and an atomic contact are needed. Infection with protective film showed that the seed is I_c nanoparticles. The metastable αSn single crystal is difficult to identify by X-ray analysis. ASn stored in a strong polymer shell with ice in a very short time gives points of lauagrams, but upon irradiation they are very soon replaced by de-grams from the transition of αSn to βSn polycrystal, and only with low-temperature complex measurements were obtained evidence of an αSn single crystal more than 100 mm long. Other metastable structures have such troubles, and they have for a long time made it difficult to analyze the structure of heavy ice.

Study of the movement of H_2O with the appearance of H^{+2}+ OH– ions, and H and OH radicals, giving H_2O_2, H_2, O_2 and the details of the decay of polymers in type I_c collisions. This explains the hypothesis about the role of blood circulation. Blood on 80% is H_2O. In capillaries H_2O with single system hydrogen ties provide long action migration on soliton type, explain successful in treatment weak physicochemical impact Eastern medicine. The bonds in the polymer are the same, there are no differences in covalent, ionic, hydrogen. Dogmatists say, that liquid and gaseous H_2O to be the same with obvious differences in all manifestations due to the unity of the energy of these bonds in a single power system of the polymer. This also confirms 1 and not 3 lines in the NMR spectrum. In plant life, the same role played by the movement of H_2O in the capillaries of wood. The nature is uniform, and in inorganic processes the same role of movement of H_2O and nano particles formed thus is visible. Knowledge of the mechanisms of βSn-αSn transition: memory, infection through the protective layer and at a distance, metastable nano particles from H_2O motion, allowed to solve a number of practical problems.1) This is the creation of a powder of the desired purity and dispersion, 2)deep zone purification of Sn in the solid state to a higher purity, 3)single crystals of brittle semiconductor α Sn 4)of any shape 5)even with a p/n transition, 6)an "absurd" method of analysis of high-purity Sn. The existence of the memory of the presence of Sn in the phase- αSn allows you to repeatedly carry out the process of βSn- αSn and back, with each transition destroying the integrity of the material due to the volumetric effect and without the use of external contamination materials and reseiving the material to the desired particle size without loss of purity. the use in process of ultrasound significantly accelerates the process contrib-

uting to the growth of the number of infecting nanoparticles. 2)- 5) Knowledge of nano-particles of polymers and their existence in the presence of moving H2O allows to grow single crystals of the given properties, forms, sizes solving not only problems of electronics, but also technological problems of material science: cleaning by zone melting Sn is not effective, so solubilities Sb in solid and liquid Sn are equal, K=1, from it clean by additional methods. In metal Sn and semiconductor αSn different bonds and structures, solubility is different, so the βSn-αSn transition will clean Sn efficiently. But the problem is that at T below 13.2 oC (then everywhere T instead of temperature) Sn crumbles, and impurities remain in place. Knowledge of the mechanism of βSn-αSn allows it to be carried out in the shaper, as in the cultivation of single crystals also with the creation of minimum centers of infection. Sn length analysis showed a shift of impurities from the infected end of the rod to the opposite end. They all go to the end of the rod. For cleaning, it is necessary to fulfill the requirements for the preparation of the rod and the choice of high T βSn-αSn, when the growth rate V αSn is small, the movement of impurities V is large. the question of applicability of βSn-αSn for analysis is complicated by long-found anomalies in relation to impurities to Sn. 6) Analysis of high-purity substances is already complicated. The method of "residual resistance"is developed in high purity metals. The analysis gives an estimate of the amount of impurities in high purity metals (the amount of impurities is less than 10-5%) this is not available to classical labor-intensive methods of analysis. The resistance of the conductor $R_{4,2k}$ at 4,2 K shows purity. The ratio of its resistances at room T (this R ~ constant), and while and at T liquid helium: $\gamma_{4,2}$ = R 300/ $R_{4,2k}$ is a measure of purity. The purer the metal and the more perfect the structure, the higher the value $\gamma_{4,2}$. But He not everyone is available. The study of the βSn-αSn phase transformation of Sn showed that the speed of its (V) depends on the purity of Sn, and the spread of data will not allow to assess the purity, it coincides with the observation of the fact of different effects of impurities on V βSn-αSn: some accelerate it, others slow it down, others are indifferent. It is not possible to analyze the purity of Sn by V transition, depending on a set of different types of impurities. For example, Sn from Sb impurity is not cleaned by zone melting (so K = 1) Sb impurity remains. The Sb content is high and inhibits the βSn-αSn process, as befits impurities. And In was accelerating. It was not clear why, but the notion of the absurdity of the idea of purity analysis by V βSn-αSn is indisputable at excess of impurity Sb cannot be unambiguous V depends on the sum of different impurities. Studies have shown chaotic V shifts from purity. And at Sn at the highest purity without excess Sb from growth of concentration of any impurity shift of dependence V towards lower is linear. This reduction of V has a clear physical meaning: the V of the process at any T is linearly dependent on $\gamma_{4,2}$. Deviations from this linear dependence are observed in less pure Sn. The mentioned works of the middle-twentieth century were conducted with the Sn, the content in which Sb was great. With knowledge of the βSn-αSn mechanism and the extreme proximity of the parameters of the αSn and In Sb structures, the anomaly becomes understandable. At a high concentration of impurities can interact with each other. And In Sb not slightly retarding Sb lead away, but gives mass of new centers of contagion, that sharply increases V. In highly pure Sn impurities as in endlessly diluted solutions not can meet, lead themselves as individual impurities, which is suitable for the method of analysis. The βSn-αSn process is complex and requires to be considered. 1) the possibility of infection under H_2O allows to use a shaper of durable ice and grow single crystals of the desired profile, creating a minimum of centers of infection. T (and, therefore, V) is chosen according to the requirements of the problem. 2) to create a p/n transition, T is selected with such a ratio of βSn-αSn V andV impurities that meet the configuration of the product. 3)for cleaning, select the maximum possible T. V phase growth will be minimal due to proximity to equilibrium, and the V of the impurity motion is large, according to the Arrhenius equation. So impurities will be able to migrate to the end of the sample, and the entire sample will be as clean as possible. 4) If you want to keep the impurities in place for the p/n transition of the simplest design and especially in the analysis, T is chosen with the closest possible velocities of the phase and impurities. Then the impurities will be in the same places of the sample that were before a transition, and the analysis will be benign. Therefore, the experiments of choice T should be done patiently, treat them with maximum attention, apply this T to build a calibration graph of the dependence of V βSn-αSn on $\gamma_{4,2}$ and always observe this T exactly. Analysis requires compliance with more complex modes than zone clearing Sn. But all processes are not in powder, but in whole Sn, created under similar conditions. Practicallyconvenient T from–5oC to–35°C. They are available, and easy to stabilize. 5) Preparation of samples. The described techniques melt Sn is poured into a form of SiO_2 to obtain Sn in the form of wires or rods, depending on the tasks, then they are annealed in a vacuum and infected with one end of the seed from In Sb and placed in a thermostat with a given T. Reliable temperature control, in thiss time is well spent. Wires are convenient because of the possibility to make several measurements of the velocity β-α along its length and, therefore, reduce the error of visual measurement. Make measurements of the infected area in time, repeating them repeatedly for graphic correction of errors of single measurements. It is necessary to create a minimum of infection centers according to the method described above.

The idea of the dependence of the size of growing particles on the degree of distance from the equilibrium state is not new. Students doing a weight analysis knew that the deposition weight forms it is necessary to conduct hot fluids, far away from equilibrium conditions, slowing the deposition, otherwise fine nano particle of sediment will pass through the filter and be lost. Conversely, rapid deposition from highly supersaturated solutions will yield nanoparticles. 1) Analogs Sn in nature structures sphalerite S and wurzita W have, but structures wurzita W have CdTe in nature there is no. It had interesting properties in the field of lumi-

nescence, but there is no such structure in nature. If you dissolve the S structure of CdTe in the alkali melt, pour the hot melt into ice water, CdTe nanoparticles are formed in a metastable W structure with really interesting properties. They cannot infect Sn as does a CdTe in structure S. But after staying in normal conditions, the metastable structure of W goes into stable S, loses its interesting properties 2) an example of an explosive amorphous metastable Sb structure is interesting. From chloride acid solutions with high solubility $SbCl_3$ at high supersaturation by electrolysis precipitate explosive Sb, tearing from heating or mechanical load. In textbooks, it was called subchloride, suggesting the capture of chlorine, giving an explosion. The analysis of both the sediment and the products of the particles and scattered from the explosion showed a complete absence of chlorine in them. X-ray analysis showed an amorphous sediment structure, with faint lines vaguely similar to Sb lines. Sediment from highly supersaturated solutions gave metastable amorphous nano structures. It is possible to obtain films of oily-looking brown of amorphous Sb by vacuum evaporation on a very cold substrate. A thin layer in the thickening of the layer of explosive moves in the usual silver structure remaining on the substrate is not scattered from the lack of energy in the small size of the amorphous structure. 3)Analogue of αSn InSb semiconductor at high P and low T can be turned into a dense metal analogue of βSn type. When applied to normal conditions, it explodes, In Sb nanoparticles fly long distances. In Sb comes back with an explosion into the covalent structure as "Batavian tears". If quickly droplets of molten glass introduced into cold H_2O, they instantly solidify in the form of a tadpole in a nonequilibrium state. The melt solidifies in a closed volume. High pressure is created inside the droplet, fragile glass even a hammer blow does not split. If the tail of a tadpole is broken, it will explode crumbles into powder. Increasing the pressure of the water can make the ice heavier than it, and it will normally explode. The near order of the atoms of water and ice are the same, but the correct structure of ice is loose. H_2O polymers with a denser structure have voids that are filled by individual molecules of H_2O, that are not structural units. A heavy ice like to SiO_2 is also known. It has tetragonal lattice with a hydrogen bond length of 2,775 Å. Each molecule has 3 or.2 hydrogen-bonded neighbors instead of 4, but there are 2or3 non-hydrogen-bonded neighboring molecules at a distance of about 3.6 Å. The structure is metastable, and from x-rays as mentioned about monocrystals αSn is destroyed by their action, which creates difficulties for x-ray analysis. For the first time [20] modifications of high-pressure ice were discovered by Bridgeman in 1912. But for more than half a century its structure was not clear for the reasons described. As a compressed metastable explosive In Sb, such ice is "anomalous", and when exploded, will probably yield even more different substances, whose healing effects may be stronger. But this only fantasy and object of conceivable research with quite possible expected results, for example, in relation to medical cure.

Conclusion

Phenomena's are similar, the nature is uniform. The roles of metastable nanoparticles in the creation of complex global processes in living and inanimate nature densely intertwined-and a high degree of oversaturation in the creation of nano particles and metastable phases. Knowledge of the truth and mechanisms of incomprehensible phenomena gives solutions to any practical tasks.

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