Artificial ball lightning energy storage

create artificial ball lightning, not differing by their properties from natural analogues. ... Energy source and method of energy storage. 3. The nature of motion, shifting and balance of BL in ...

ar case of Ball lightning. Experiments on production of artificial BL are very valuable because, unlike natural BL, parameters of objects produced in the experiments can ...

The results show that lightning can be used as an alternative energy source, because lightning is a renewable energy and will not run out even if it is used continuously. Discover the world"s research

trostatic energy. This paper provides calculations of characteristic parameters of ball lightning, which are well consistent with its phenomenology. 1 Introduction There are many ...

The monograph is devoted to ball lightning (BL) observed in natural conditions in the air and artificial BL, long-lived luminous formations (LLF), usually obtained in laboratories experimentally. Joint consideration of artificial and natural BL ...

The energy density of a ball lightning can be estimated by the conse-quences that it leaves after it affects an object. The existing estimations of the ... gy storage; 3--starter unit; ...

Ball lightning is a rarely observed phenomenon whose existence is attested to by thousands of eyewitness reports, but which has so far evaded a widely accepted scientific ...

Ball lightning is one of the strangest objects you might never see. The rare, basketball-sized fireballs occasionally form in nature after lightning strikes soil. They can float or bounce and last for several minutes before ...

There are various estimates about the energy of natural ball lightning, starting from 1 kJ if the lightning glows like a 100 Watt bulb for 10 s to 1 MJ, if the ball lightning boils a ...

Preface t is devoted to long-lived luminous formations of both natural and artificial origin. The first is generally accepted name--ball lightning (BL); the second is long-lived luminous objects ...

create artificial ball lightning, not differing by their properties from natural analogues. The purpose of this paper is to analyze some models of BL by a number of criteria ...

composite model to include the possibility of high-energy storage through a unipolar charge bubble ball. The charged bubble (with melted surface) could have high electrostatic energy with density ...

New insights into the one-in-a-million lightning called "ball lightning" Date: August 7, 2013 Source: American Chemical Society Summary: One of the rare scientific reports on the ...

1.3 Energy Storage in the Ball Lightning 1.3.1 Hypotheses About BL Energy Sources From the facts of BL observation presented above, one can have a general idea of

In this chapter, the results of the latest research on ball lightening (BL) are presented. The study of BL usually goes in one of three directions: (1) gathering and observing data on BL ...

Furthermore, lightning has a lot of energy; a single bolt can power 150 million light bulbs. The idea of harnessing so much energy and storing it is immensely appealing. There are a number of problems with trying to harness ...

(ZPE) In this letter we describe a possible design for production and exploitation of such ball lightnings, based on experimental experiences with Silicon-discharge fireball examples and ...

The basic model predicted the important properties of "average" observed ball lightning, and the extension in this paper also covers high-energy examples of ball lightning.

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Among luminous formations acknowledged as examples of artificial ball lightning with lifetimes t?1 s, examples are presented whose nature is well described by a weakly ...

Due to the high energy associated with lightning strikes, the proximity to ball lightning poses potential safety concerns. It is vital for researchers and observers to exercise caution when ...

in Quantum FFF THEORY. The Form and Microstructure of elementary particles, is supposed to be the origin of Functional differences between massless Higgs-Graviton-Photon/Gluon-and ...

The process of energy conversion of its own poloidal magnetic field of the ball lightning into the kinetic energy of its charged particles occurs in this case. The energy of ...

Creation of artificial ball lightning (BL) in gas discharges has been considered. Explosion of the experimental fireballs can be explained by an action of vapors inside them on ...

This chapter has a historical character. It is devoted to the contribution of the main ball lightning researchers. From it, one can learn about the role of M. Faraday, M.V. ...

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Experiments have been carried out to study the anomalous passage of labor-atory-produced ball lightning through solid-state sheets. The passing of the ball lightning within the ...

Stakhanov, ball lightning is a blob of cold hydrated plasma with a sharp boundary. The diameter of such a blob is 12- 20 cm, and the lifetime amounts to several seconds; only in some rare ...

Kurilenkov in 2007 (with a permission of the author) 1.3 Energy Storage in the Ball Lightning 1.3.1 Hypotheses About BL Energy Sources From the facts of BL observation presented above, one can have a general idea of this ...

These contours are hard packed in a small volume of ball lightning, forming a multilayer capacitor containing a substantial charge and elec-trostatic energy. This paper ...

Summary form only given. Ball lightning is a natural phenomenon characterized by a glowing ball of light that forms outside in the open air and inside closed rooms, aircraft, and ...

The book is called "Natural and artificial ball lightning in the Earth"s atmosphere" because it is devoted to long-lived luminous formations of both natural and artificial origin. The first is ...

ic feature of ball lightning is that it can remain stable and independent for several seconds, which is much longer than the lifespan of ordinary linear lightning. The unique ...

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