



# Energy storage capsule support ring

What size capsule is optimum for thermal energy storage?

This size range appears optimum for thermal energy storage, as capsules of diameter  $\approx 300$  nm may see a decrease in latent heat due to low core-to-shell ratio.

How many cells are in a storage ring?

The storage ring has an energy of 3 GeV and a circumference of 288 m, with a total of 12 cells. Each cell contains a long straight section (LSS) of 6.20 m and a short straight section (SSS) of 1.86 m, allowing for the accommodation of more insertion devices (IDs).

What is the extremely brilliant source storage ring?

The Extremely Brilliant Source storage ring of the European Synchrotron Radiation Facility. Commun. Phys. 2023, 6, 82. [Google Scholar] [CrossRef]

Can a compact intermediate-energy storage ring light source fill the gap?

In this paper, we follow this trend, and propose a compact intermediate-energy storage ring light source to fill the gap between the third-generation light sources, SSRF and HLS-II, and the fourth-generation light sources (HEPS and HALF) in China, to meet most of the requests from the materials research users in SZLab.

How long is a storage ring?

Each cell of the storage ring consists of a 6.2 m-long straight section and a 1.86 m-short straight section, allowing more insertion devices to be accommodated in the entire ring. This lattice shows great nonlinear dynamic performances of large dynamic aperture and large local momentum aperture.

What is a storage ring light source?

The storage ring light source has gone through three generations of development and is currently under active development towards the fourth-generation light source, the diffraction-limited storage ring (DLSR), whose average brilliance is about 2-3 orders of magnitude higher than that of the third-generation storage ring light source [1, 2].

Other (?????) None Zhejiang, China 4 LandSky ok none

The temperature variation, charging and discharging efficiencies, and energy and exergy efficiencies were studied to investigate thermal performances, and detailed thermal energy ...

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