Introduction

Synchrotron radiation (SR) is extremely powerful light which is used for studying the structure of matter at the atomic and electronic levels and in various physical and chemical processes in a number of research fields ranging from materials science to life science.

SPring-8, which is one of the largest third-generation synchrotron radiation facilities in the world, provides the most powerful synchrotron radiation currently available. Construction of SPring-8 was started in 1991 and the facility was opened in October 1997.

At SPring-8, many scientists from around the world are making efforts to unlock the secrets of nature using synchrotron radiation as the key.

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SPring-8 Storage Ring Parameters

Electron energy	8 GeV	Characteristic photon energy	28.9 keV
Current	100 mA	Number of insertion devices	Max. 38
Circumference	1,436 m	Number of beamlines	Max. 62