

Good afternoon everyone, it's an honor to sit in front of a computer to introduce myself even if it's feeling a little strange. My name is Yuan Shuai, from Fengjie of Chongqing province; you may not hear of my hometown, but you all have seen a picture of my hometown. Look at this ten-yuan paper money, it's a view of my hometown called Kuimen; And the Baidi City is located at this mountain. The Baidi City is well-known for Liu Bei entrusting his son to Zhuge Liang. My hometown is also called the Chinese poem city because many poets like Li Bai and Du Fu lived there and created many popular poems. If you want to learn more about my hometown, you can see this movie which was made in my hometown. Then let me talk about myself, I was studied in RUC for six years since 2013 and it will last for four years and I come from school of natural science and I major in chemistry. And now my main research interest is solar cell.

Speaking of solar cell, you may think about energy, With the development of the times, more and more energy were consumed and most importantly, the vast majority of the energy is non-renewable energy such as coal and oil, which means some day in future will consume all of the non-renewable energy, this picture shows the situation of oil, you can see from the picture that less and less oil will be found in the future then we may use a horse to drive a car not oil. Any way it's urgent to find alternative energy. As a substitute, solar energy is inexhaustible and clean. There are many ways to use solar energy: 1) photothermal conversion:

solar water heater. 2) photosynthesis: the plant absorbs light and turn carbon dioxide oxygen. .2) photovoltage conversion: Solar cell is most efficient way for photovoltage conversion which can turn light into electricity. The first solar cell was born in 1958, after about sixty years of development, there are many kinds of solar cells: silicon solar cell, thin film solar cell, polymer solar cell, dye-sensitized solar cell,

and perovskite solar cell and perovskite solar cell is also what I researched. Solar cell have many applications in different aera, like space ship for space exploration, solar energy station for daily life, and backpack for our outdoor activities.

Perovskite solar cell is a new-born baby in the field of solar cell, it was created in 2013, and it spent about six year to accomplish the accomplishments of others solar cell. And it's the most potential solar cell now. So it's necessary to research it and make it applied in our daily life.