

The perovskite family of solar materials is named for its structural similarity to a mineral called perovskite, which was discovered in 1839 and named after Russian mineralogist L.A. Perovski. The original mineral perovskite, which is calcium titanium oxide ( $\text{CaTiO}_3$ ), has a distinctive crystal configuration. It has a three-part structure, whose ...

A perovskite solar cell. A perovskite solar cell (PSC) is a type of solar cell that includes a perovskite-structured compound, most commonly a hybrid organic-inorganic lead or tin halide-based material as the light-harvesting active layer. [1] [2] Perovskite materials, such as methylammonium lead halides and all-inorganic cesium lead halide, are cheap to produce and ...

Perovskite solar cells and light-emitting diodes (LEDs) are approaching record efficiencies. The optoelectronic properties of perovskite materials and its versatility seem unique. Perovskites are materials with a ...

US-based First Solar has acquired Evolar AB, a Swedish developer of perovskite technology. The purchase price is approximately \$38 million paid at closing and up to an additional \$42 million to be paid subject to certain technical milestones being achieved in ...

SOLVE - Solar Electricity Research Centre, Sweden - is a consortium of universities and public/private sector partners performing collaborative, needs-driven research projects aiming at rapid expansion of solar energy in the Swedish electric grid. Within the framework of SOLVE, we perform advanced studies on stability on perovskite solar cells.

More stable and efficient materials for solar cells are needed in the green transition. So-called halide perovskites are highlighted as a promising alternative to today's silicon materials. Researchers at Chalmers University of Technology, in Sweden, have gained new insights into how perovskite materials function, which is an important step forward.

A research collaborative project involving scientists from Sweden's Karlstad University and Israel's Ben-Gurion University of the Negev and Weizmann Institute of Science will examine how perovskite solar cells could recover and self-repair at night. Metal halide perovskite materials have been shown to possess a self-repairing ability. One of the Israeli research ...

Dyename, a Swedish manufacturer of solar cell materials, has expanded the range and the volume of production of its perovskite materials with the addition of five new fullerene acceptors. "The ...

Dyename provides state-of-the-art analytical/characterization equipment for dye-sensitized solar cells, perovskite solar cells and solar fuels. #187; Latest Dyename news: "LAPERITIVO - a European



# Perovskite solar Sweden

consortium for perovskite modules

First Solar has agreed to pay \$38 million to buy Swedish manufacturing startup Evolar AB, as it seeks to expand development of high-efficiency tandem PV tech.

His research has focused on the fields of dye-sensitized solar cells, perovskite solar cells and solar fuels. He has published more than 630 scientific papers that have received over 117 000 citations. He is a member of several academies including the Royal Swedish Academy of Sciences and the Royal Swedish Academy of Engineering Sciences, Sweden.

The most recent news from the US-based company is that it has bought Evolar AB, a Swedish startup leading the way on perovskite solar technology. Perovskite solar tech has gotten a lot of ...

Solar power is an important part of the transition to clean energy, but the efficiency of conventional silicon-based solar cells has stagnated at around 20 % and the market has become highly commoditized over the last decade. The Swedish startup Evolar's solution increases the efficiency of solar cells by using an extra solar cell on the inside of the glass.

U.S.-based solar module manufacturer First Solar has acquired Evolar AB, a Sweden-based company focused on perovskite technology, for an initial payment of around \$38 million. There is an agreement for a potential additional payment of up to \$42 million based on future technical milestones.

Set up in 2019, Evolar focused on developing solutions, including manufacturing equipment, for commercialising a tandem solar technology using perovskite thin films. Following the deal, Evolar's laboratory in Uppsala will continue to conduct research activity, with about 30 of the company's research and development (R& D) staff to move to ...

Hanwha Q CELLS is one of the most renowned perovskite solar cell manufacturers. The company was founded in 1999 and has its headquarters located in Seoul, South Korea. It is one of the biggest and best-known photovoltaic producers in the world as a result of its premium and highly efficient solar cells and modules.

Researchers from Lund University in Sweden and from Fudan University in China have successfully designed a new structural organization using the promising solar cell material perovskite. The study shows that solar ...

Hybrid perovskite solar cells (PSCs) have advanced rapidly over the last decade, with certified photovoltaic conversion efficiency (PCE) reaching a value of 26.7% 1,2,3,4,5. Many academics are ...

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Swedish startup Evolar, led by founders of now-insolvent CIGS thin-film manufacturer Solibro, is developing a turnkey production line for perovskite cells. The company said it can be added to...

First Solar buys perovskite firm, says tandem PV will "define the future" ... Sweden, will continue to conduct research activity. Upon closing, around 30 of Evolar's R& D staff will join First Solar, working with the company's scientists at its technology center in Santa Clara, California, and development teams in Perrysburg, Ohio. ...

Swedish thin-film solar manufacturer Midsummer inked a deal with the European Union Innovation Fund grant to receive EUR32.3 million (\$34.8 million) to pay for a third of the company's soon-to-be ...

Self-assembled monolayers (SAMs) are employed as hole-selective contacts in inverted perovskite solar cells (PSCs) and have achieved record power conversion efficiency (PCE) over 26%. ... ;ngstr&#246;m Laboratory, Uppsala University, Box 532, SE - 751 20, Uppsala, 12480, Sweden. 6 State Key Laboratory of Oil and Gas Equipment, CNPC Tubular Goods ...

From pv magazine Global. First Solar said it is buying Swedish manufacturer Evolar AB in a bid to accelerate its efforts to develop tandem PV technology. The US solar module maker will initially pay around \$38 million, but it might later pay an additional \$42 million, subject to certain technical milestones being achieved in the future.

The first double perovskite solar cell devices were made in 2017 by Bein and co-workers, ... (Sweden) in 2017, Marie Skłodowska-Curie Individual Fellowship (European Commission) in 2018, and the Docent in 2022. His research interests focus on solar energy technologies based on lead-based perovskites, lead-free perovskites, and organic ...

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