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Hydrogenated Amorphous Silicon

This book describes the properties and device applications of hydrogenated amorphous silicon. It covers the growth, the atomic and electronic structure, the properties of dopants and defects, the ...

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Amorphous Silicon Semiconductors — Pure and Hydrogenated

An Australian-Russian research group has developed a silicon heterojunction solar cell based on p-type gallium-doped wafers with an efficiency of 22.6% and an improved stability. The scientists are ...

New tech may bring heterojunction solar cells based on p-type wafers closer to mass production

As society moves towards a renewable energy future, it ' s crucial that solar panels convert light into electricity as efficiently as possible. Some state-of-the-art solar cells are close to the theoret ...

Cutting Through Noise to Improve Solar Cell Efficiency

As society moves towards a renewable energy future, it's crucial that solar panels convert light into electricity as efficiently as possible. Some state-of-the-art solar cells are close to the ...

Cutting through noise for better solar cells

and lowcost multijunction amorphous silicon (a-Si) systems could achieve 7 to 12% efficiency. The advantage of a directconversion hydrogen-generation system is that it eliminates most of the costs ...

Heading toward the hydrogen economy

The wavelength of light used for photoresist exposure in

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leading-edge optical lithography has evolved from longer-wave ultraviolet (UV) to the deep-UV wavelengths of 248 and 193 nm. In the near future ...

Modified silica transmits vacuum UV

With support from the Center for Chemical Innovation (CCI) Program in the Division of Chemistry at NSF, the Center for Selective Carbon-Hydrogen (C-H) Functionalization (CCHF) will coordinate and ...

NSF Center for Selective CH Functionalization

Nanographene is made by selectively removing hydrogen atoms from organic molecules of carbon ... Its high electron mobility is 100x faster than silicon; it conducts heat 2x better than diamond; its ...

Graphene Description

Specifically, the target of the research and development are solar cells and materials composed of silicon crystals and thin films ... in addition to the creation of useful fuels, such as hydrogen, ...

Creative research for clean energy generation using solar energy

KONG Lingtao at the Hefei Institutes of Physical Science (HFIPS) of the Chinese Academy of Sciences (CAS) has prepared a type of hollow amorphous Co/C composites to activate hydrogen peroxide (H₂ ...

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Singlet oxygen selectively degrades oxytetracycline in fenton-like oxidation

each able to split water molecules into hydrogen and oxygen. Each array will be approximately the size of a single six-inch silicon solar cell. “ InRedox and Schmid have been dedicated in providing the ...

SunHydrogen, Inc. (HYSR)

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SunHydrogen, Inc. (1H3.SG)

Electrons and holes are then pulled in opposite directions by an electrical field created by two selective contacts made of hydrogenated amorphous silicon modified with impurities. This process ...

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