中国建筑材料联合会
China Building Materials Federation

2021全球建材十大科技新闻

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2021 TOP 10 全球建材十大科技新闻

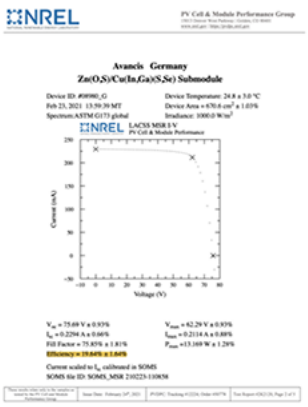
GLOBAL BUILDING MATERIALS SCIENCE AND TECHNOLOGY NEWS

按新闻时间排序 Ranking by time of news

01

凯盛科技德国公司铜铟镓硒太阳能电池组件光电转换效率创世界纪录

New efficiency record for CIGS solar modules of Triumph Technology - AVANCIS GmbH created a world record


NREL

PV Cell & Module Performance Group

Avancis Germany

Zn(O,S)/Cu(In,Ga)(S,Se) Submodule

Device ID: #09980_G

Feb 23, 2021 13:59:39 MT

Spectrum: ASTM G173 global

Device Temperature: 24.8 ± 3.0 °C

Device Area = 670.6 cm² ± 1.03%

Irradiance: 1000.0 W/m²

NREL LACSS MSR I-V

PV Cell & Module Performance

Current (mA)

Voltage (V)

V_{oc} = 75.68 V ± 0.93%

I_{sc} = 0.2294 A ± 0.66%

Fill Factor = 75.85% ± 1.81%

Efficiency = 19.04% ± 1.64%

V_{max} = 62.29 V ± 0.93%

I_{max} = 0.2114 A ± 0.88%

P_{max} =13.169 W ± 1.29%

Current scaled to I_{sc} calibrated in SOMS

SOMS file ID: SOMS_MSR 210223-110858

02

低热水泥首次全坝应用于300米世界级特高拱坝白鹤滩水电站

Low-heat Portland cement is used for the first time in 300-meter-high special arch dam in Baihetan hydro-power station

03

西麦斯德国水泥厂启动绿色氢气脱碳项目

Cemex begins international green hydrogen project

04

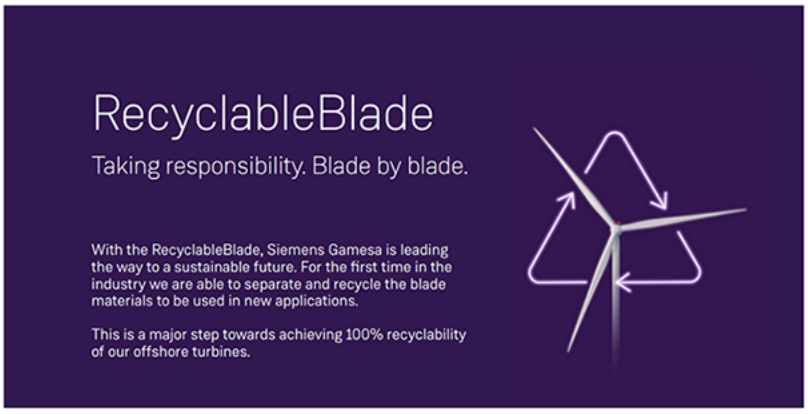
首次利用氢气100%替代天然气试生产平板玻璃在英国皮尔金顿公司取得成功

World first as 100% hydrogen fired at Pilkington UK, St-Helens

05

全球首款商用可回收再利用风电叶片正式推出

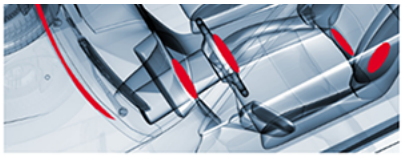
Launch of world's first recyclable wind turbine blade for commercial use



06

日本推出耐受1000℃火焰燃烧超5分钟的热塑性复合材料新品

Japan has developed new thermoplastic composite that withstands more than 5 minutes of a flame over 1000℃



07

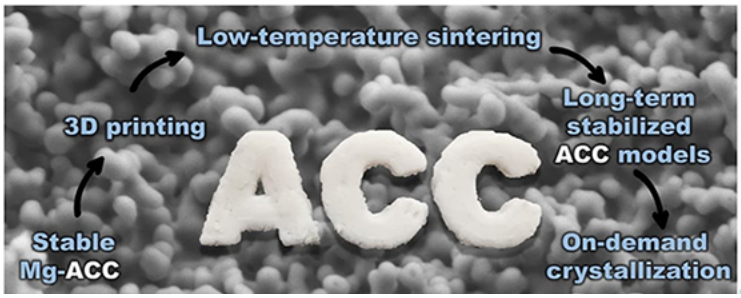
英国水泥厂成功率先开展净零一次化石燃料商业规模试验

World first trial using net zero primary fossil fuel for commercial scale cement manufacture in a UK cement plant

08

以色列研究无定形碳酸钙为陶瓷材料低温3D打印打开了大门

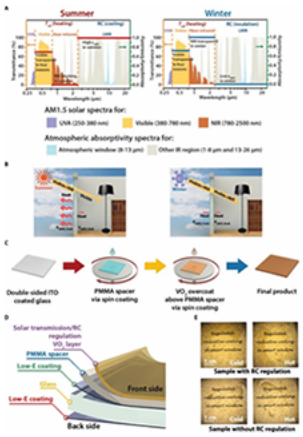
Israeli researchers' study on amorphous calcium carbonate opens door to low-temperature 3D printing of ceramic materials



09

新加坡南洋理工大学研制具有被动辐射冷却调节功能的热致变色智能窗

Nanyang Technological University Achieved Progress on scalable thermochromic smart windows with passive radiative cooling regulation



10

世界首条利用水泥窑烟气CO_2制备混凝土砖生产线在华新水泥成功运行

World first concrete brick production line using CO_2 discharged from cement kiln was successfully operated in Huaxin Cement

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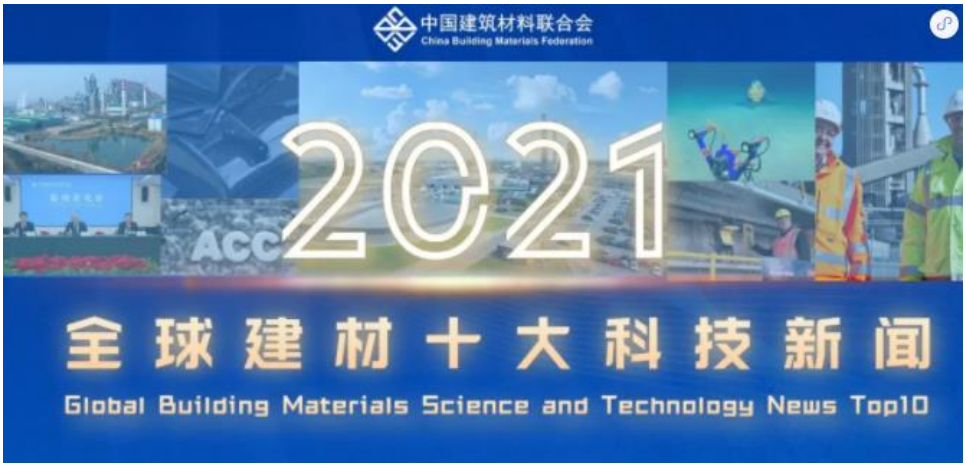

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