



Simolover

recent applications & products



lighter than aluminium and as strong as steel
[Al-CNT composite]

cooperative development Zoz & Bayer



Electric Aircraft with Hydrogen Range Extender

project-no. EG 906, EUROGIA*/EUREKA

nanostructure

[Hydrolium®, H2Tank2Go®] and PEMFC's (Zentallium®



the world's first public bridge made of High Performance Cement/Concrete

project-no. 03X0068A, BMBF

grain-size control by nanostructure





























at is new: ssing and Sintering of Zentallium® inct-no. EP120573, BMWi

PUNALKO proiect-no. 03FH054PX2, BMBF

wder Metallurgical Fabrication of nanostructured Al-ed high-performance materials for structural ele-nts under high thermal stress.

HIP and Hot-Extrusion of Zentallium® project-no. EP121019, BMWi

Development of Zentallium® at high strength and high elongation by modified grain-size control agents for HIP & Hot-Extrusion consolidation.

What is new

state hydrogen storage as well as the physical nation with pressurized hydrogen for aviation;

cost-effective, lightweight fuel cell system;

platform for later High Altitude Pseudo Satellites (HAPS) at combined Battery-Solar-FC-technology for very long

nanostructured

















What is new & available

HEM-surface activation/grain-refinement at substantial bimodular particle size reduction (high strength, high density/durability);

more dense packing results into a substantially im-proved durability - and with this, at statics related con-crete structures again material can be saved resulting in a more durable product and one could once more build lighter and higher;

the CO2-saving is enormous and next to and because of the care for our environment, such saving can be converted into cent and euro already today;

www.zoz.de

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