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Gypsum is a natur nature, if left alor crystals more tha:	cally occurring miner the for thousands of y n 10 metres tall. The	ges by which gypsum cr al which is often used ir ears, can grow into hug se are famed for their bo rmation of gypsum has u	i industrial processes a te translucent, towerir eauty in places such as	ng and eerie, s the Cave of			
the Laboratorio de off as tiny crystals in building, art-we of 100 million tor	e Estudios Cristalográ of a mineral called ba ork, casts and firepro as per year by dehyd s buy the bassanite p	l of Earth and Environn ficos CSIC-University of ussanite. Most of us knov ofing. Currently bassanit rating quarried gypsum bowder and add water t	Granada found that g v this as Plaster of Pari e plaster is manufactu at 150 deg C. Builders	ypsum starts s as we use it rred at a rate s, artists and	Simil	ar Articles On This To	opic:
By experimenting with supersaturated gypsum solutions, the researchers were able to produce bassanite at room temperature. This than transforms to gypsum.					<ul> <li>How you feel the world impacts how you see it</li> </ul>		
Professor Liane G Benning from the University of Leeds said: "This process has never been documented before. In nature gypsum grows as these fantastic large crystals, yet we show that in the lab gypsum actually grows through the assembly of many, tiny bassanite crystals. These link together like a string of pearls before they crystallize to gypsum. We studied hundreds of high-resolution images and caught the tiny bassanite crystals in the act of assembling into gypsum"					<ul> <li>Digital 'plaster' for monitoring vital signs undergoes first clinical trials</li> <li>Arm in plaster changes brain in 16 days</li> <li>'Twinkle after effect' can help retinal patients detect vision loss quickly and cheaply</li> </ul>		
Their findings are published today (April 6) in the journal <i>Science</i> .					<ul> <li>Twinkle after-effect' can help retinal patients detect vision loss quickly and cheaply</li> </ul>		
The lead author, Alexander van Driessche from the Laboratorio de Estudios Cristalográficos in Grenada said: "Our study shows a new, low cost and low temperature way of making bassanite, although so far we have only managed to keep it stable for up to one hour."							
This finding may also be applicable for reducing the clogging of pipes and filters through the precipitation of gypsum during water desalination or oil production. It can cost millions of pounds to remove gypsum from a pipe – a serious economic problem specifically for countries supplying much needed drinking water.					<ul> <li>Popular Today:</li> <li>Who knows you best? Not you, say psychologists</li> </ul>		
Prof. Juan Manuel Garcia Ruiz, the director of the Laboratorio de Estudios Cristalográficos in Granada said: "The study reveals how a natural mineral forming process can have important economic consequences for our daily lives. It also tells us how nature can make such beautiful and enormous crystals as seen in the caves at Naica or even the gypsum and bassanite, recently documented on Mars".					<ul> <li>Herschel sees dusty disc of crushed comets</li> <li>Scientists capture the first image of memories being made</li> <li>Rapid climate change threatens Asia's Rice</li> </ul>		
Finally, Prof. Benning said" If we manage to produce and stabilize bassanite crystals at room temperature through a clean, green method for long periods, we don't just learn something about a natural process but, compared to what is industry standard currently, our research could also lead to a massive cost and energy saving for the production of plaster".					<ul> <li>Rapid chinate change inteatents Asia's Kice Bowl</li> <li>Brain cell regrowth linked to benefits of exercise, sexual behaviors and reproductive issues</li> </ul>		
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