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## SCIENCE

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### Scientists Order Crystal Polar Molecules

By Staff  
Jan 18, 2007

U.S. scientists have found a way to order polar molecules in crystals -- a discovery that holds promise for telecommunications and computing.

Not only have the University of Missouri-Columbia researchers found a way to organize crystal molecules so the poles align in the same direction, but they also discovered aligned crystals hold potential to change the frequency of light.

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"Making crystals parallel is difficult to do, but we've found a way to do it and are getting better at it," said chemistry Professor Rainer Glaser. "As a chemist, I was expecting the potential of a parallel crystal to be the sum of all its molecules, but in our collaborative work we've found there is even greater potential for these crystals than I anticipated."

Glaser collaborated with doctoral student Yongqiang Sui and Assistant Professor Ping Yu in the research. Yu found that when an infrared laser is focused at a parallel crystal, the frequency of light changes. That finding, still in the preliminary stages, might lead to technology that would create faster and more efficient microchips.

A study detailing the discovery appears in the January issue of the journal Accounts of Chemical Research. (c) UPI

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