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MRS Bulletin

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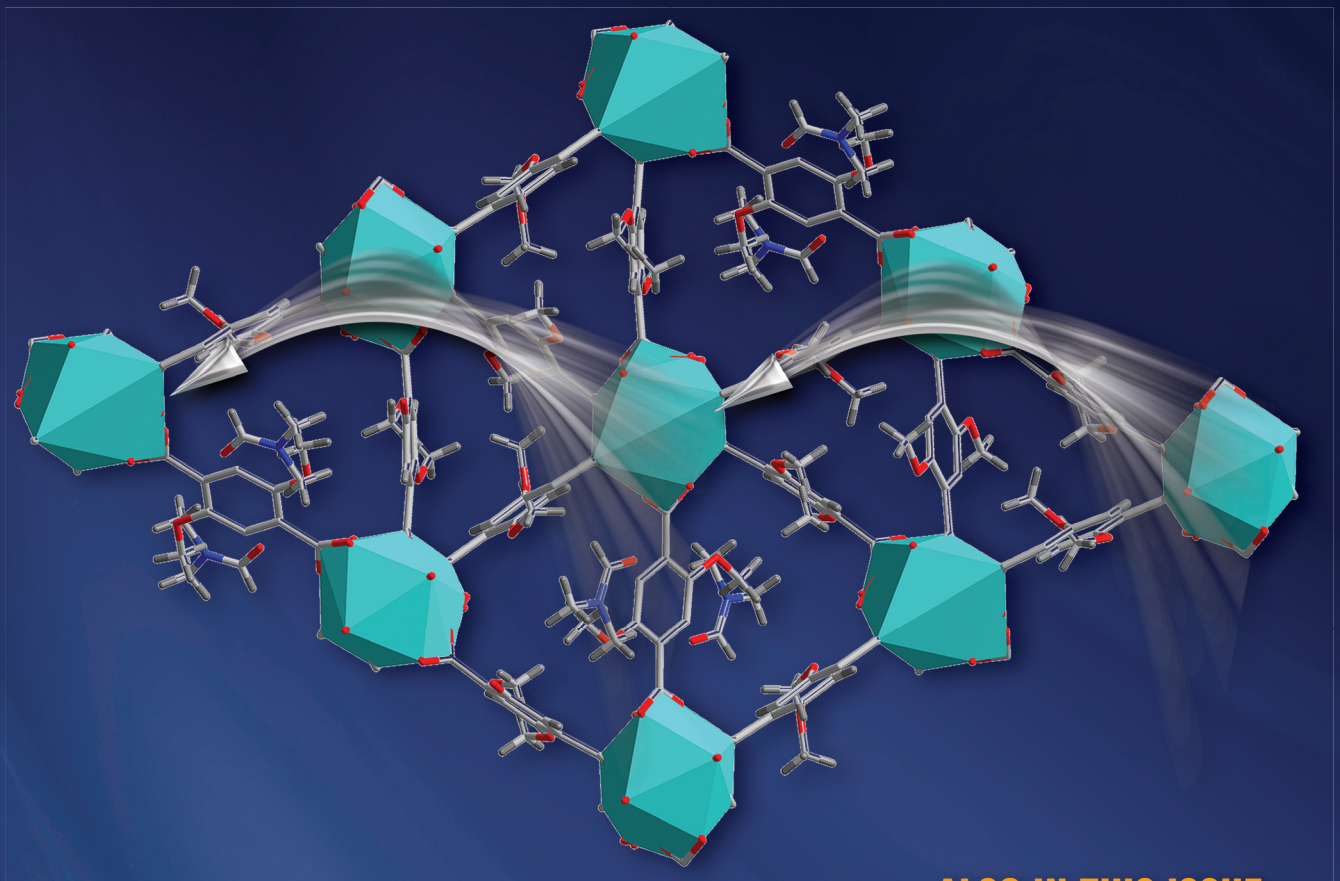
Metal–organic frameworks for electronics and photonics



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METAL–ORGANIC FRAMEWORKS FOR ELECTRONICS AND PHOTONICS

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ON THE COVER

Metal–organic frameworks for electronics and photonics. Metal–organic frameworks (MOFs) have outgrown their traditional perception as being only porous molecular sponges to becoming a versatile platform for electronics and photonics applications. The current issue of *MRS Bulletin* highlights the state of the art of the rapidly growing field of MOFs applied to electronics and photonics, far beyond conventional gas storage and gas separation applications. The cover shows an illustration of the structure of a MOF consisting of metal centers connected by organic linkers. Recent developments have led to new designs that enable electronic conduction (arrows) through the framework, opening new avenues for electronics and photonics. See the technical theme that appears on page **854**.

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The Materials Research Society (MRS), a not-for-profit scientific association founded in 1973 and headquartered in Warrendale, Pennsylvania, USA, promotes interdisciplinary materials research. Today, MRS is a growing, vibrant, member-driven organization of over 16,000 materials researchers spanning over 80 countries, from academia, industry, and government, and a recognized leader in the advancement of interdisciplinary materials research.

The Society's interdisciplinary approach differs from that of single-discipline professional societies because it promotes information exchange across many scientific and technical fields touching materials development. MRS conducts three major international annual meetings and also sponsors numerous single-topic scientific meetings. The Society recognizes professional and technical excellence and fosters technical interaction through University Chapters. In the international arena, MRS implements bilateral projects with partner organizations to benefit the worldwide materials community. The Materials Research Society Foundation helps the Society advance its mission by supporting various projects and initiatives.

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