



# MRS Communications

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**MRS** MATERIALS RESEARCH SOCIETY  
*Advancing materials. Improving the quality of life.*

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# MRS COMMUNICATIONS

*MRS Communications* is a **new** archival journal that publishes high-impact materials research with timeliness and scientific quality in the style of the Materials Research Society. Its editorial policies promote rapid online publication of results and rigorous peer review. Major article types include rapid communications (research letters), ultra-rapid brief communications, "prospectives" papers, correspondence and commentaries.

"Prospectives" are a unique feature of this Journal and offering a succinct and forward-looking review of topics of interest to a broad materials research readership. This modern journal features advanced on-line publication, in full color, acceptance of supplemental materials, and multimedia content. *MRS Communications* leverages the deep technical expertise of leading MRS members among its editorial board and reviewers under the initial governance of a team of Founding Editors, and the advanced author and reader publication services and academic standing offered by Cambridge Journals.

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- Mechanical behavior at the nanoscale
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- Nanoscale semiconductors for new electronic and photonic applications
- New materials synthesis, templating and assembly methods
- New topics in metals, alloys and transformations
- Novel and *in-situ* characterization methods
- Novel catalysts and sensor materials
- Organic and hybrid functional materials
- Quantum matter
- Surface, interface and length-scale effects on materials properties

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- 4000-5000 words, 8-10 printed pages
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- Supplemental and multimedia data encouraged
- Max. 100 references

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- If critical of a previously published paper, original author will be given option to publish a reply (no automatic right to reply)

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# MRS Communications

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## Research Letters

- |       |   |  |
|-------|---|--|
| 1–5   | <b>Study of relaxation dynamics of photogenerated excitons in CuInS<sub>2</sub> quantum dots</b>                              | Inderpreet Singh, S. Madan, A. Kaur, J. Kumar, P.K. Bhatnagar, P.C. Mathur   |
| 7–13  | <b>Oxygen vacancy enhanced room-temperature ferromagnetism in Sr<sub>3</sub>SnO/c-YSZ/Si (001) heterostructures</b>           | Y.F. Lee, F. Wu, J. Narayan, J. Schwartz   |
| 15–18 | <b>Lithium oxide solution in chloride melts as a medium to prepare LiCoO<sub>2</sub> nanoparticles</b>                        | Vladimir Khokhlov, Dmitriy Modenov, Vasiliy Dokutovich, Viktor Kochedykov, Irina Zakir'yanova, Emma Vovkotrub, Igor' Beketov |
| 19–23 | <b>A new experimental approach for evaluating the mechanical integrity of interfaces between hard coatings and substrates</b> | Ke Chen, Yang Mu, W.J. Meng  |
| 25–29 | <b>Continuous dynamic analysis: evolution of elastic properties with strain</b>   | S. Basu, J.L. Hay, J.E. Swindeman, W.C. Oliver   |