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We are excited to let you know that our journals content will be migrating to the Silverchair platform on the 30th June 2026.

All of our content will still be hosted at pubs.rsc.org and the new platform will provide a more intuitive reading and navigation experience, along with improved discovery and indexing of your work.

Please be aware that the site will be temporarily unavailable on the 30th June to support the migration to the new platform. If you are unable to access the platform on the day, please try again later.

We look forward to seeing you on the new platform!

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From the journal:

Chemical Communications

The exceptional near-infrared luminescence properties of cuprorivaite (Egyptian blue)†

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Abstract

Cuprorivaite ($\text{CaCuSi}_4\text{O}_{10}$, also known as Egyptian blue) exhibits an exceptionally high emission quantum efficiency in the near-infrared region ($\lambda_{\text{max}} = 910 \text{ nm}$, $\phi_{\text{EM}} = 10.5\%$) and a long excited state lifetime ($107 \mu\text{s}$); these properties make it appealing for several applications in the fields of biomedical analysis, telecommunications and lasers.

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Supplementary files

[De Mello method for the determination of the absolute luminescence quantum yield of a solid state sample; XRD analysis of a sample of cuprorivaite](#)

PDF (757K)

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