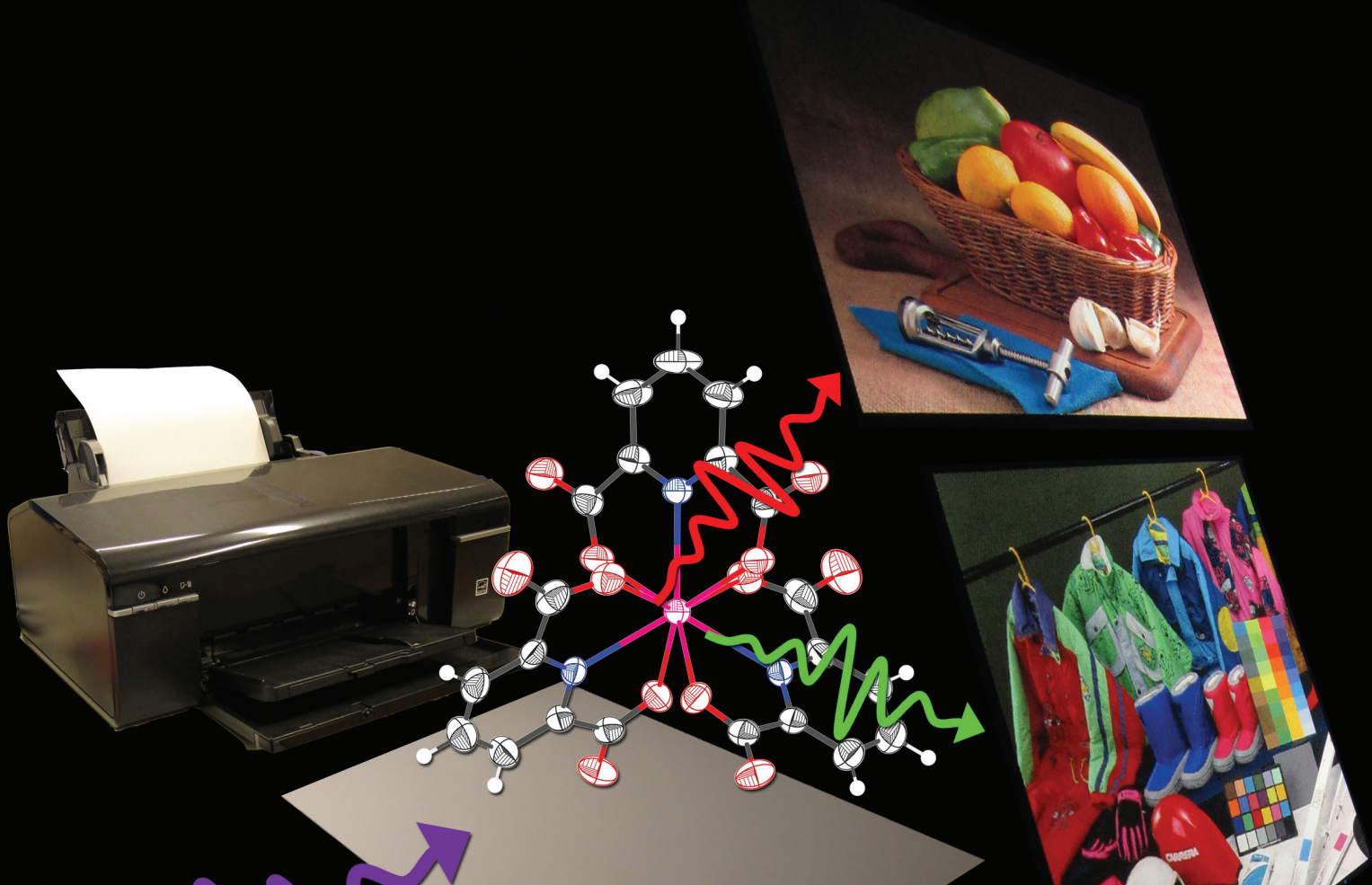


ADVANCED FUNCTIONAL MATERIALS



INVISIBLE INKS

A.-S. Chauvin and co-workers print lanthanide complexes on paper and, by controlling and calibrating an inkjet printer, obtain accurately reproduced luminescent images that are invisible under daylight but appear to glow under UV light. On page 5029, this shining application demonstrates the potential of luminescent lanthanide complexes to build unique anti-counterfeit features that are both beautiful and difficult to reproduce. The frontispiece picture is a simple illustration of the material workflow involved in the production of such prints.

Lanthanoids / Lanthanides

57	138.91 1.08 3	58	140.12 1.08 3, 4
La		Ce	
[Xe] 4f ¹ 5d ¹ 6s ²		[Xe] 4f ¹ 5d ¹ 6s ²	