Luminescent Quenching by Transition Metal Ions on a Luminescent Surface

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In the past ruthenium compounds with desirable photophysical properties have been synthesized for the purpose of creating organometallic probes. It has recently been shown that these compounds retain luminescence when bound to silica polyamine composites (SPCs). If the binding of a transition metal ion to the surface of these complexes affects these photophysical properties significantly, these complexes could be used to detect low concentrations of transition metal ions in solution.

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