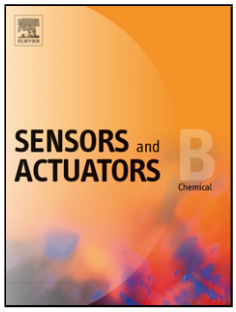

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A quick and selective rhodamine based "smart probe" for "signal-on" optical detection of Cu^{2+} and Al^{3+} in water, cell imaging, computational studies and solid state analysis

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Graphical abstract

A well characterized rhodamine hydrazone bearing allyl group displays selective detection of Cu^{2+} and Al^{3+} ions in an aqueous medium and its ensemble with Al^{3+}, detects pyrophosphate and it meets real world challenges.