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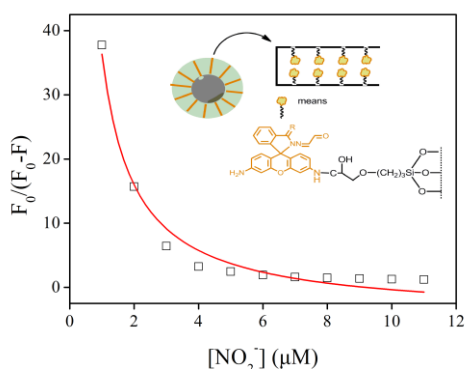
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## Graphical abstract



Two emissive-magnetic composite samples based on a core-shell structure were constructed. A static sensing mechanism based on an additive reaction was confirmed which could be reversed by sulphamic acid so that these composite samples could be recovered after nitrite sensing.

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