

Supporting Information for the Manuscript:

“Metal-Enhanced Fluorescence Nanoparticulate from Zinc Films”, Kadir Aslan, Michael J.R. Previte, Yongxia Zhang, Chris D. Geddes.

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The following figures were referred to in the main text.

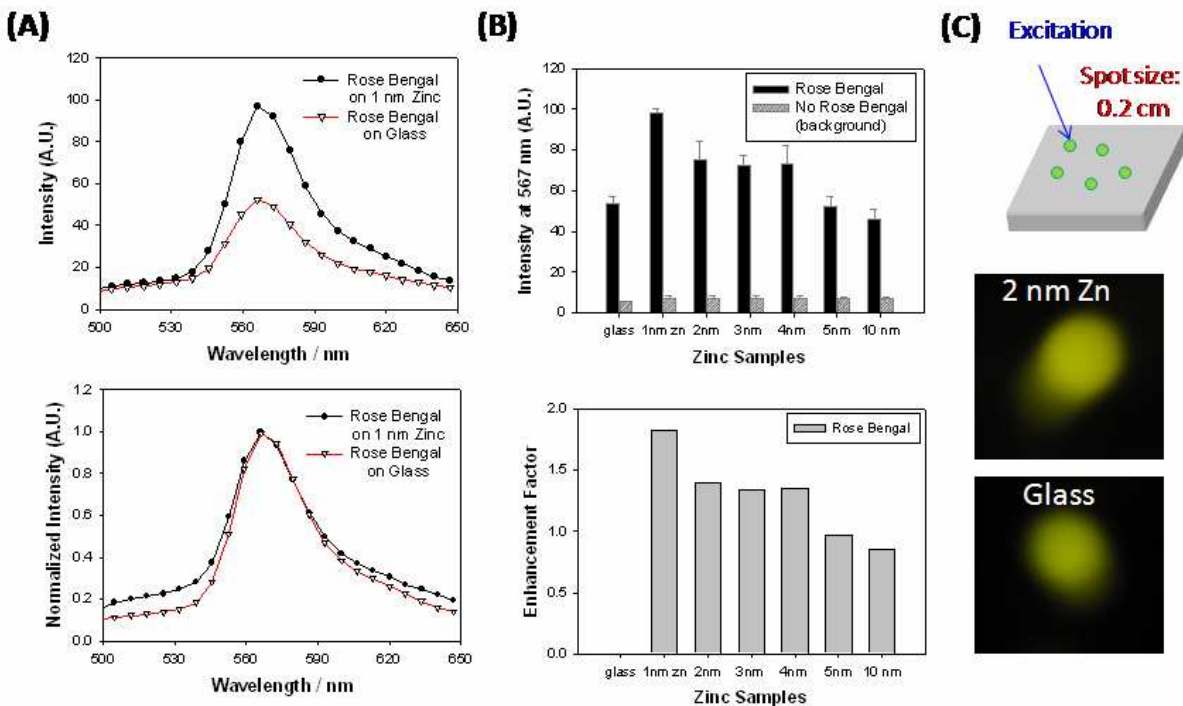


Figure S1. **(A)** Raw (top) and normalized (bottom) fluorescence emission spectrum of Rose Bengal from zinc (1 nm thick) and glass substrates. **(B)** Fluorescence emission intensity of Rose Bengal measured (at 567 nm) from glass and zinc substrates (top) and calculated fluorescence enhancement factor for Rose Bengal. **(C)** Real-color photographs of Rose Bengal emission from 2 nm zinc (top) and glass (bottom) substrates taken through an emission filter. Average of 5 measurements are shown. A.U. Arbitrary Units.

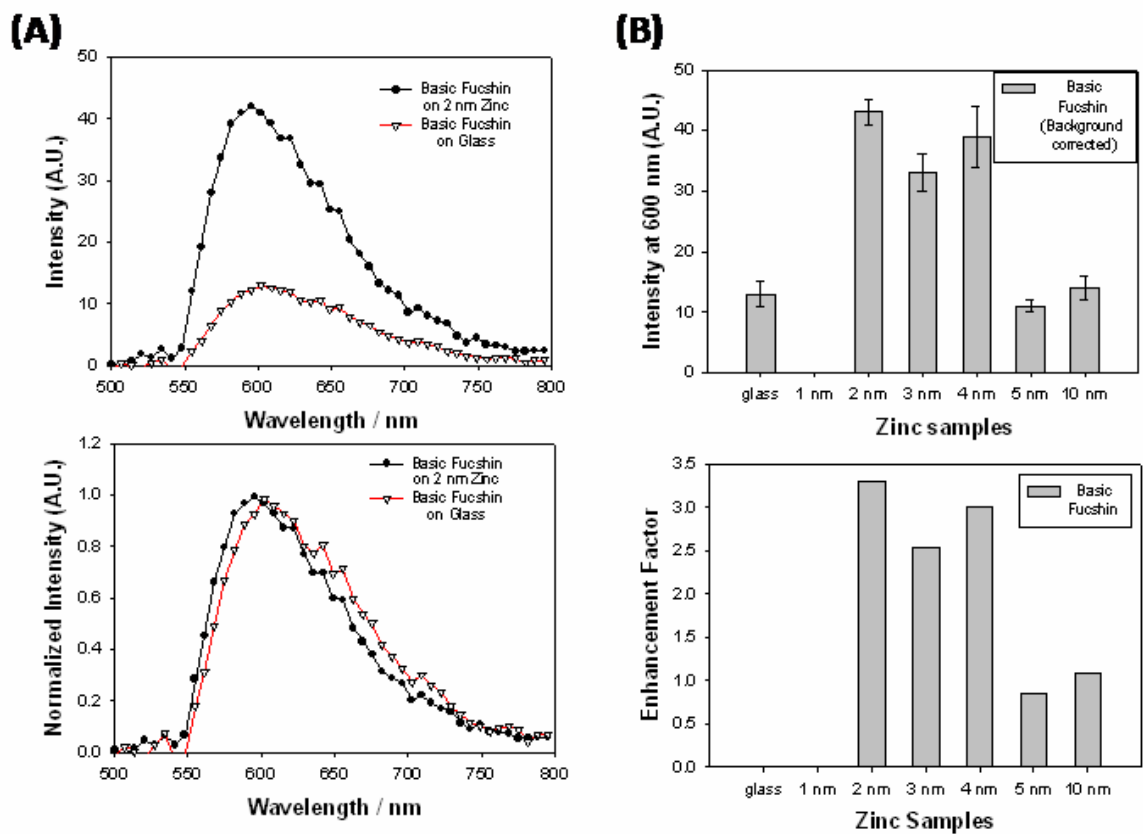


Figure S2. **A)** Raw (top) and normalized (bottom) fluorescence emission spectrum of Basic Fuchsin from zinc (1nm thick) and glass substrates. **(B)** Fluorescence emission intensity of Basic Fuchsin measured (at 600 nm) from glass and zinc substrates (top) and calculated fluorescence enhancement factor for Basic Fuchsin. A.U. Arbitrary Units.

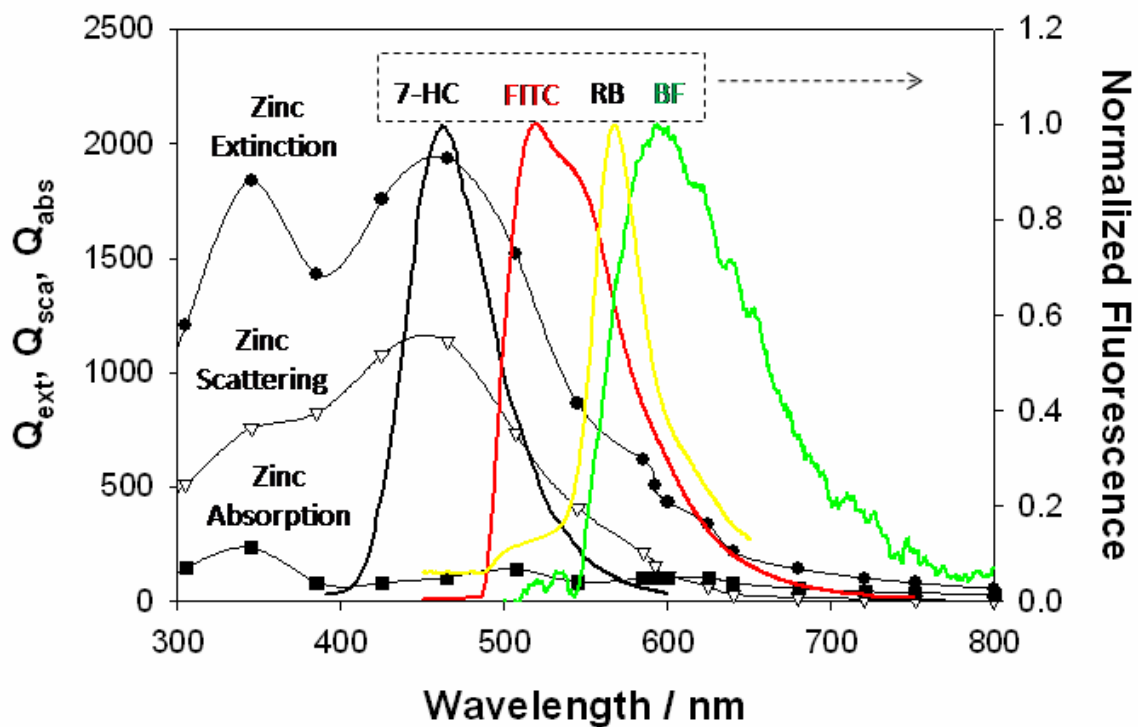


Figure S3. Calculated Mie extinction, scattering and absorption cross section of a 100 nm zinc nanoparticles and emission spectrum of the fluorophores used in this study.