

Electronic Supplementary Information (ESI)

Fluorescein Dyes Intercalated Layered Double Hydroxides for Chemically Stabilized Photoluminescent Indicators on Inorganic Surfaces

*Jong Hyeon Lee^a, Duk-Young Jung^{*b}, Eunchul Kim^c, Tae Kyu Ahn^c*

^a Department of Chemistry, The Catholic University of Korea, Bucheon, Gyeonggi 420-743, Korea

^b Department of Chemistry, Sungkyunkwan Advanced Institute of Nanotechnology, Institute of Basic Sciences, Sungkyunkwan University, Suwon 440-746, Korea
Fax: +82-31-290-7075, E-mail: dyjung@skku.edu

^c Department of Energy Science, Sungkyunkwan University, Suwon 440-746, Korea

[Table S1] Fluorescence Property of fluorescein dyes intercalated LDH film (LDH-F film)

Particle number	A ₁	τ ₁ (ns)	A ₂	τ ₂ (ns)	A ₃	τ ₃ (ns)	τ _{ave.int} (ns)
1	75.79	0.23	21.87	1.15	2.34	4.17	1.41
2	83.04	0.21	15.16	1.26	1.80	4.72	1.49
3	81.24	0.20	17.42	1.07	1.34	4.56	1.24
4	81.27	0.22	16.91	1.20	1.82	4.82	1.50
5	80.73	0.20	17.66	1.25	1.61	5.23	1.60

where A_i and τ_i are amplitude ratio and lifetime of each component, respectively. Intensity w

eighted average lifetime was given by $\tau_{ave.int} = \frac{\sum_i A_i \tau_i^2}{\sum_i A_i \tau_i}$.