Electronic Supplementary Information

Fluorescence resonance-energy-transfer in systems of Rhodamine 6G with ionic liquid showing emissions by excitation at wide wavelength area
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Materials and Measurements
Rhodamine 6G, BMIMCl, and GG were purchased from Tokyo Chemical Industry, Co., Ltd., Sigma-Aldrich Co., and Wako Pure Chemical Industries, Ltd., respectively. The GG/BMIMCl gel was prepared according to the literature procedure.[11] UV-Vis spectra were recorded on a Jasco V-650Q1. Fluorescence spectra were recorded on a Jasco FP-6300Q3.

![Figure S1](image_url)

Figure S1. Fluorescence spectra of (a) 1.0 mmol/L and (b) 0.25 mmol/L Rhodamine 6G/BMIMCl solutions excited at 260 - 620 nm.
Fig. S2. a) Fluorescence spectra of 1.2 mmol/L pyrene/BMIMCl solution excited at 260-600 nm, b) UV-Vis spectrum of 1.2 mmol/L pyrene/BMIMCl solution, and c) fluorescence spectra of a sole BMIMCl.

Fig. S3. Fluorescence spectra of 0.2 mmol/L Congo red/BMIMCl solution excited at 260-600 nm, b) UV-Vis spectrum of 0.2 mmol/L Congo red/BMIMCl solution, and c) fluorescence spectra of a sole BMIMCl.