Supporting Information

For

Anisotropic dynamics of guest molecules in Aerosol OT Lamellar Structures

Dipanwita De[a], Manas Sajjan[a], and Anindya Datta*

Department of Chemistry, Indian Institute of Technology Bombay,

Powai, Mumbai 400 076, India

Phone: +91 22 2576 7149, Fax: +91 22 2570 3480

e-mail: anindya@chem.iitb.ac.in
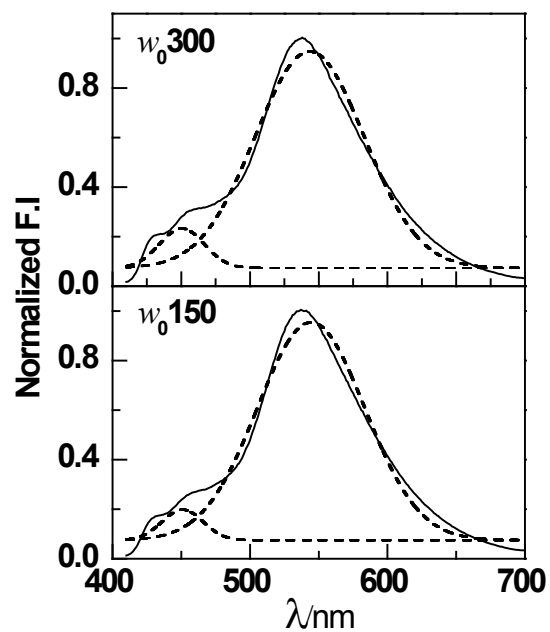
[a] Equal contributors to the work

Figure S1. Deconvolution of emission spectra (bold line) of C153 in lower aqueous layer of ternary solutions ($w_0 = 300$ and 150) into two gaussian (dashed line) functions. The emission spectra are recorded at $\lambda_{ex} = 402$ nm.

Table S1. Area under each spectra obtained by deconvoluting the emission spectra of C153 in lower aqueous layer of ternary solutions (w_0 = 300 and 150) into two gaussian functions.

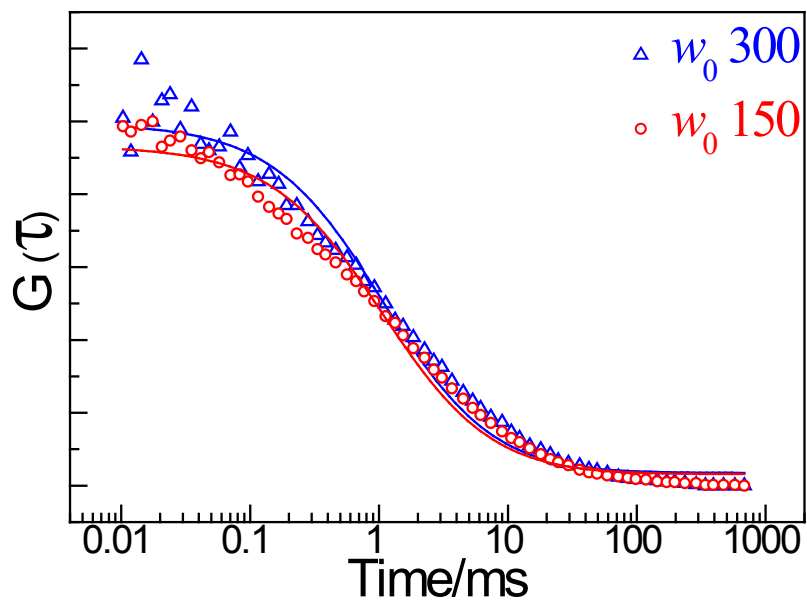| Ternary mixture	Area	Peak 1/Peak 2
w_0 150		
Peak 1 (550 nm)	107.85	4.10
Peak 2 (460 nm)	26.31	
w_0 300		
Peak 1(550 nm)	108.22	3.90
Peak 2 (460 nm)	27.724	

Figure S2. A poor fit of autocorrelation traces (line) of C153 in lower aqueous solution of ternary solution of $w_0 = 300$ and $w_0 = 150$ at $\lambda_{ex} = 405$ nm using single component.

Table S2. Single component fitting parameters of autocorrelation traces of C153 in lower aqueous layer of ternary solution for $w_0 = 300$ and 150. R^2 is the measure of goodness of fit. $\lambda_{ex} = 405$ nm.

w_0	t/ms	$D/\mu m^2 s^{-1}$	R^2
150	1.06	22.52	0.98
300	1.08	22.10	0.98