

Supplementary Information

Additional Figures and Data

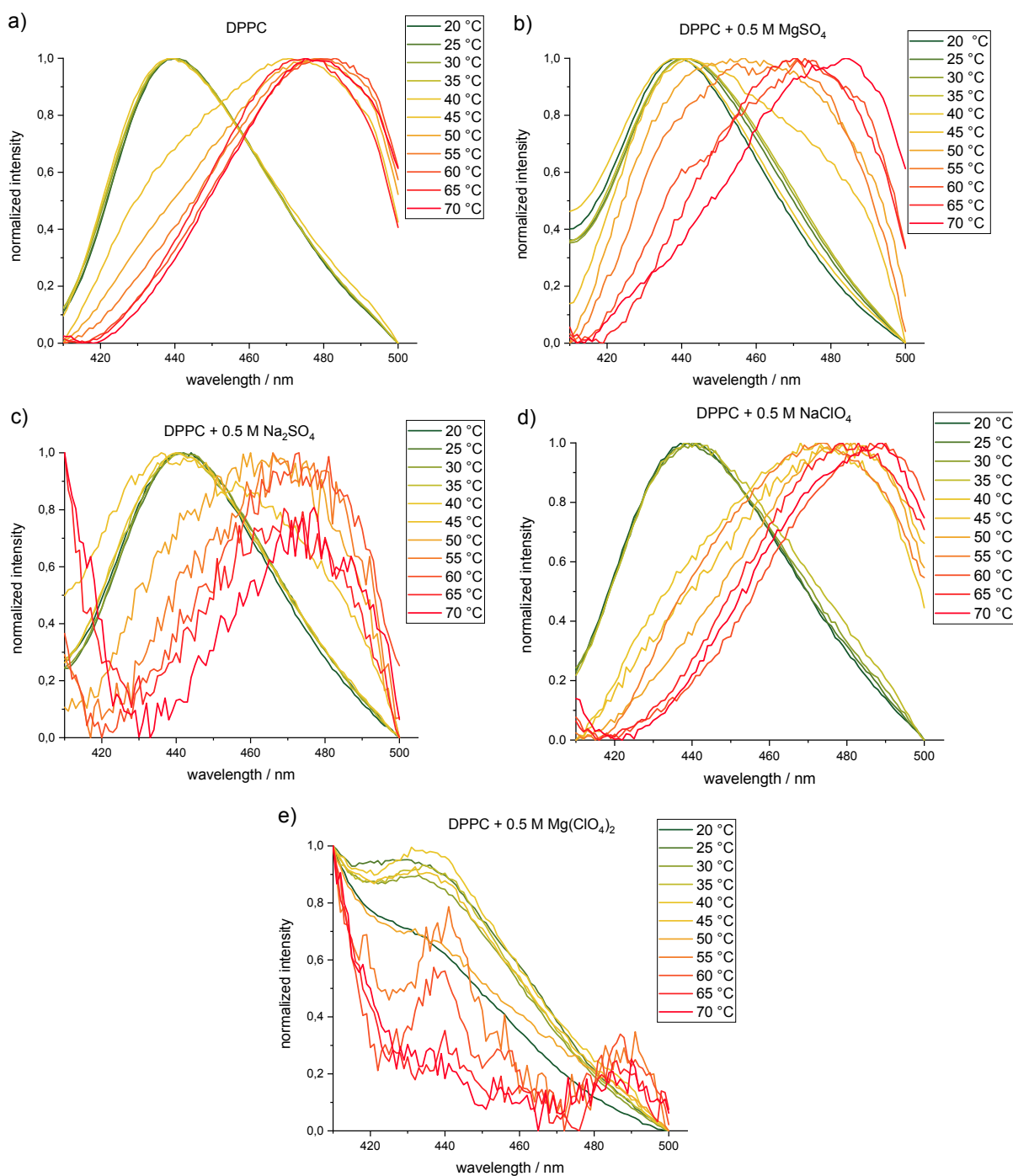


Figure SI 1. Emission spectra of Laurdan in DPPC unilamellar vesicles in the absence and presence of 0.5 M MgSO₄, Na₂SO₄, NaClO₄, and Mg(ClO₄)₂.

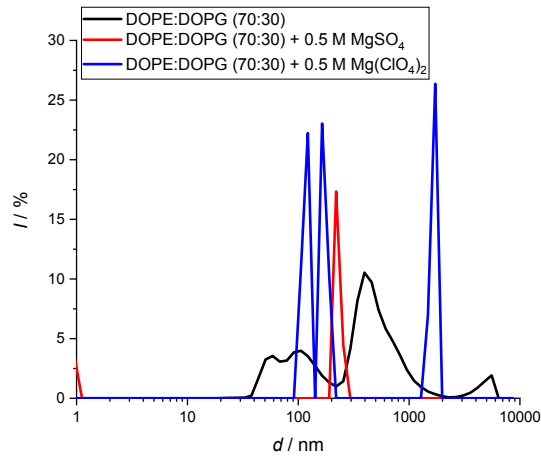


Figure SI 2. DLS experiments: Diameter distribution function of MLV dispersions of DOPE:DOPG (70:30) in the absence and presence of 0.5 M MgSO_4 or $\text{Mg}(\text{ClO}_4)_2$. The addition of the magnesium-containing salts reduces the polydispersity of the multilamellar vesicles.

Table SI 1. Lamellar d -spacings of phospholipid bilayers in the absence and presence of magnesium sulfate and perchlorate determined by SAXS.

| Lipid bilayer system | d / nm |
|--|-----------------|
| 20 wt% DOPC | 6.48 ± 0.08 |
| 20 wt% DOPC + 0.5 M MgSO_4 | 7.19 ± 0.09 |
| 20 wt% DOPC + 0.5 $\text{Mg}(\text{ClO}_4)_2$ | 5.44 ± 0.03 |
| 10 wt% DOPE:DOPG (70:30) | 5.48 ± 0.09 |
| 10 wt% DOPE:DOPG (70:30) + 0.5 $\text{Mg}(\text{ClO}_4)_2$ | 5.6 ± 0.3 |