Supporting Information

Monte Carlo Study of Polyelectrolyte Adsorption on Mixed Lipid Membrane

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Submit to "*Journal of Physical Chemistry B*"

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Figure S1. Radial distribution functions between the PIP_2 lipids and between the PS lipids as a function of solution ionic strength C_i. The membrane compositions are PC:PS:PIP_2=89:10:1. (a, b) Naked Membrane. (c, d) N=40, Z_b=+1. (e, f) N=80, Z_b=+1. (g, h) N=40, Z_b=+2. (i, j) N=80, Z_b=+2.

Figure S2. Radial distribution functions between the PIP_2 lipids as a function of solution ionic strength C_i. The membrane compositions are PC:PIP_2=99:1. (a) Naked Membrane. (b) N=40, Z_b=+1. (c) N=80, Z_b=+1. (d) N=40, Z_b=+2. (e) N=80, Z_b=+2.

Figure S3. Radial distribution functions between the PS lipids as a function of solution ionic strength C_i. The membrane compositions are PC:PS: =90:10. (a) Naked Membrane. (b) N=40, Z_b=+1. (c) N=80, Z_b=+1. (d) N=40, Z_b=+2. (e) N=80, Z_b=+2.

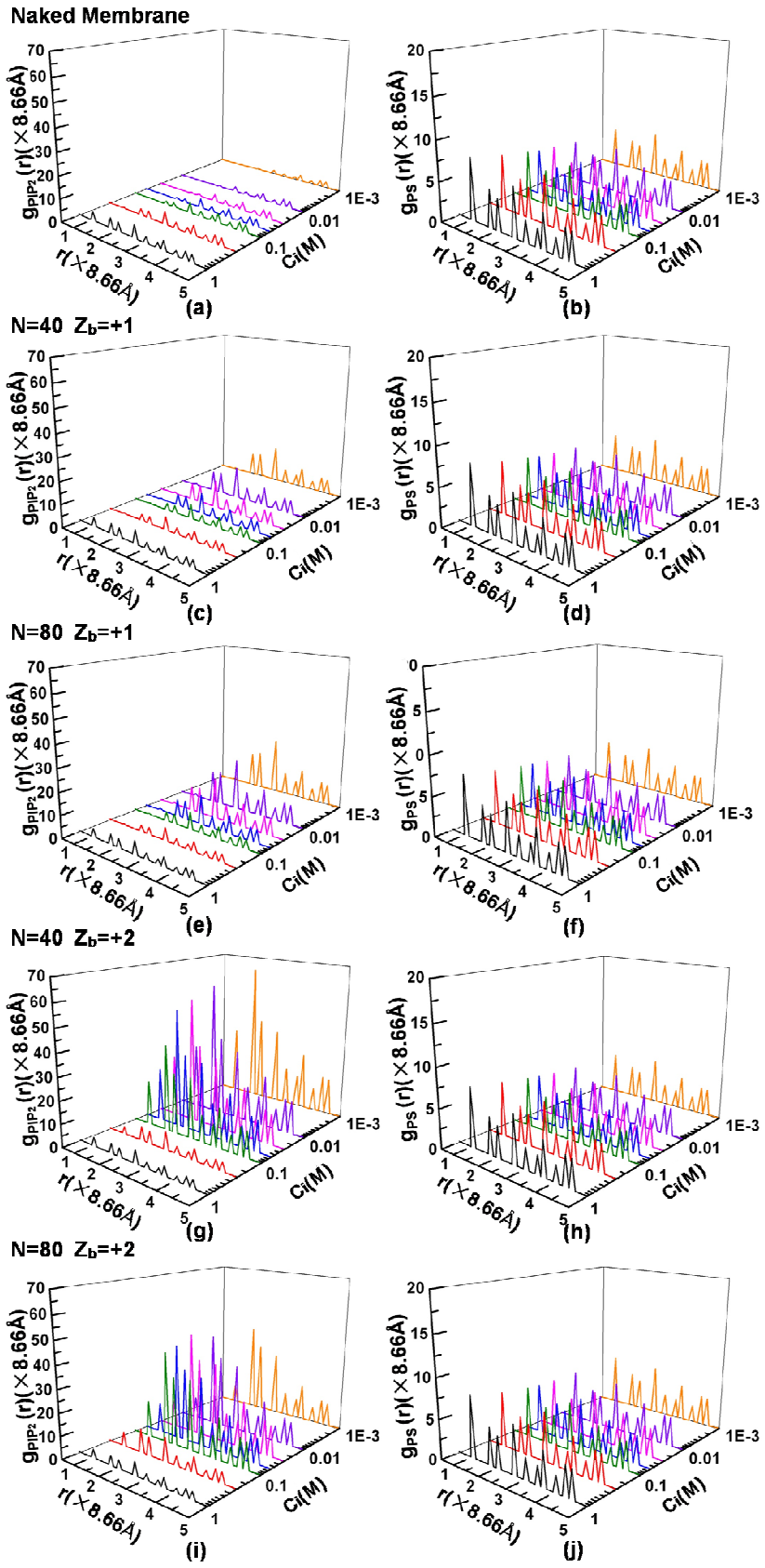
Naked Membrane
N=40 Zb=+1
N=80 Zb=+1
N=40 Zb=+2
N=80 Zb=+2
gPIP2(r)(×8.66Å)
gPS(r)(×8.66Å)
r(×8.66Å)
Ci(M)
1E-3
0.01
0.1
1
(a)
(b)
(c)
(d)
(e)
(f)
(g)
(h)
(i)
(j)

Figure S1

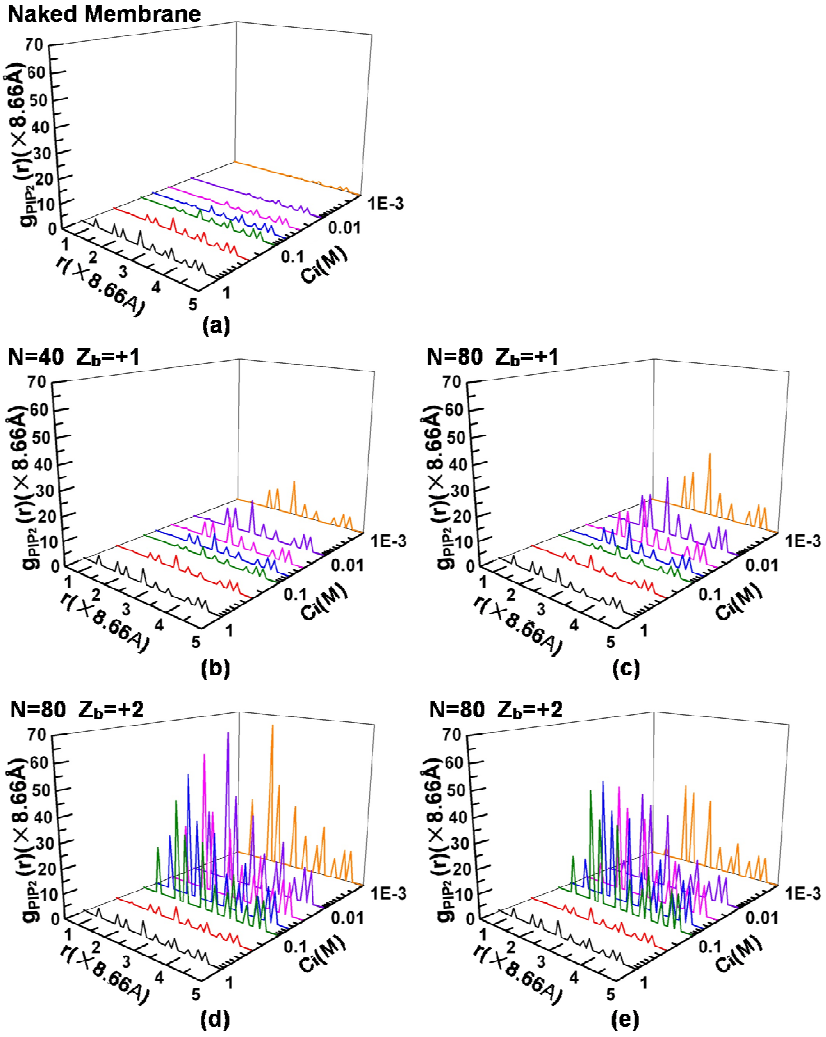
Naked Membrane
N=40 Zb=+1
N=80 Zb=+1
N=80 Zb=+2
N=80 Zb=+2
gPIP2(r)(×8.66Å)
r(×8.66Å)
Ci(M)
1E-3
0.01
0.1
1
(a)
(b)
(c)
(d)
(e)

Figure S2

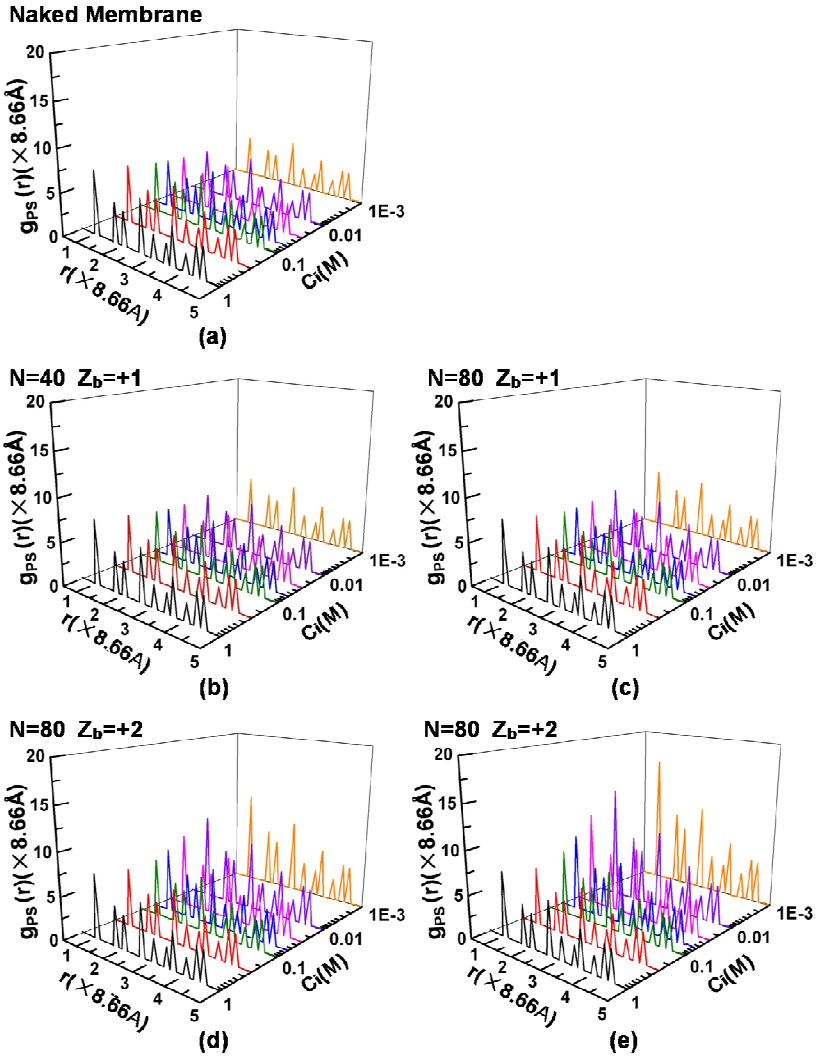

Figure S3

References with more than 10 authors

(31) Honda, A.; Nogami, M.; Yokozeki, T.; Yamazaki, M.; Nakamura, H.; Watanabe, H.; Kawamoto, K.; Nakayama, K.; Morris, A. J.; Frohman, M. A.; Kanaho, Y. *Cell* **1999,** *99*, 521-532.