

# Introduction

(I), g I g, E- g 5.6 I g (E D), (CD) g g (ED), I (E D), (I D), g 1-4 7-9 E D 10,11 I g (g, g), g 12,13 E D E D g 14,15 C g g g



I D  
; gg  
16,17 E D



$\mathbf{E} = \frac{1}{4\pi\epsilon_0} \frac{q}{r^2} \hat{\mathbf{r}}$  (1)

$F = \frac{1}{4\pi\epsilon_0} \frac{q}{r^2} \hat{\mathbf{r}}$  (0.707)

$\nabla \cdot \mathbf{E} = \frac{1}{4\pi\epsilon_0} \frac{q}{r^3} \nabla \cdot \mathbf{r} = \frac{1}{4\pi\epsilon_0} \frac{q}{r^3} (3) = \frac{3q}{4\pi\epsilon_0 r^3}$   $\mathbf{E} = R$

$C = \frac{1}{4\pi\epsilon_0} \frac{q}{r^2} \hat{\mathbf{r}}$  (C) (c),  $\mathbf{g}$

$$c = \frac{(\tilde{\epsilon} - \tilde{\epsilon})}{(\tilde{\epsilon} + 2\tilde{\epsilon})}$$

$\tilde{\epsilon} = \tilde{\epsilon}$



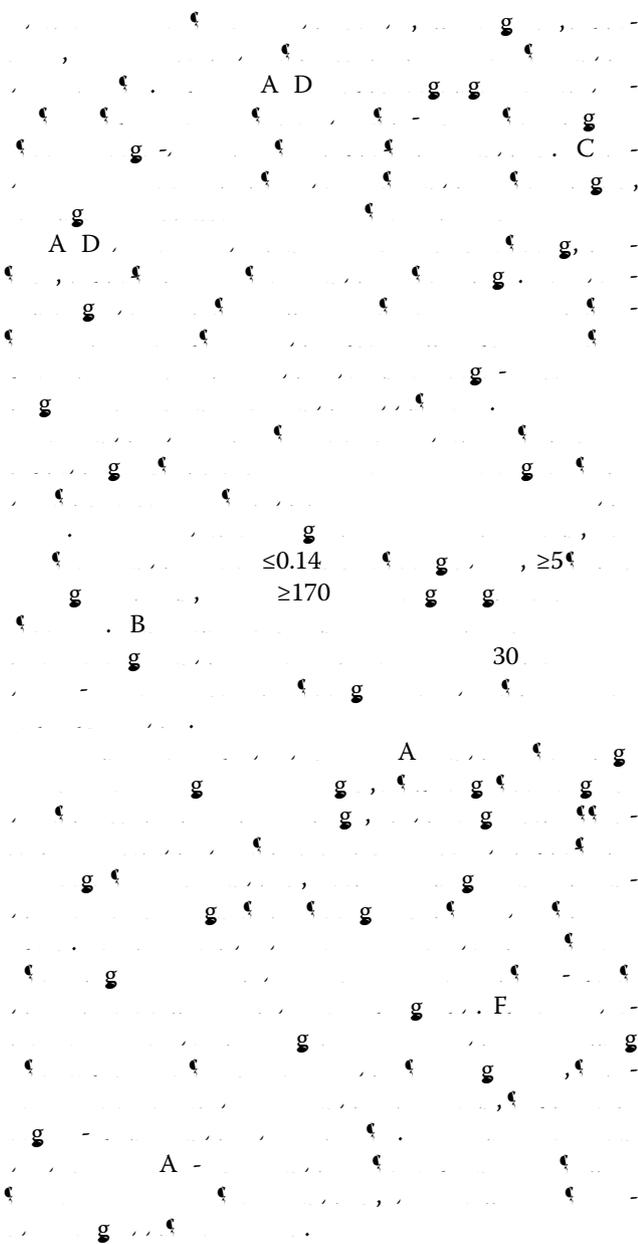












H ( , ) -8  
 2075 ( , A) -  
 140-150 μ -8  
 20 μ 345 μ  
 A D, / AC  
 -8 g I  
 (AFG 1062, I, A)  
 (A A-2042, A g C, , , C ).

MW W  
 DI ( , C g, , C )  
 18.25 Ω . B. ( , 4 μ ), ( ,  
 5 μ ) A ( g ,  
 C ). G ( , 4 μ )  
 B C C ( ,  
 C ). (5 ) g  
 A . D g A ( g , C ).  
 g I A ( g , C ).

Materials and methods

D W  
 Fg 1 , (I )-g  
 365 μ 60 μ  
 130 μ 29  
 H  
 |140 g H  
 ( 2.5 % ) I -g  
 g (H , DC-002)

F  
I

D W W W W W W W W W

(I 73,  
C., J.). I g J  
12  
A D  
Fg. 5, g

31. Ramos, A. et al. Ac electrokinetics: