

# Mass Transfer

## ○ Self-diffusion

- *diffusion in a pure substance*
- *consider tagging molecules and watching how they migrate*

## ○ Diffusion equations

- *Combine mass balance with Fick's law*

$$\frac{\partial c}{\partial t} - D\nabla^2 c(\mathbf{r}, t) = 0$$

- *Take as boundary condition a point concentration at the origin*

$$c(\mathbf{r}, t) = \delta(\mathbf{r}) \quad \text{For given configuration, each molecule represents a point of high concentration (fluctuation)}$$

## ○ Solution

$$c(\mathbf{r}, t) = (2\pi Dt)^{-d/2} \exp\left(-\frac{r^2}{2Dt}\right)$$

## ○ Second moment

$$\begin{aligned} \langle r^2(t) \rangle &= \int r^2 c(\mathbf{r}, t) d\mathbf{r} \\ &= 2dDt \end{aligned}$$

*RMS displacement increases as  $t^{1/2}$*

*Compare to ballistic  $r \sim t$*

# Mass Transfer Problems Solutions

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