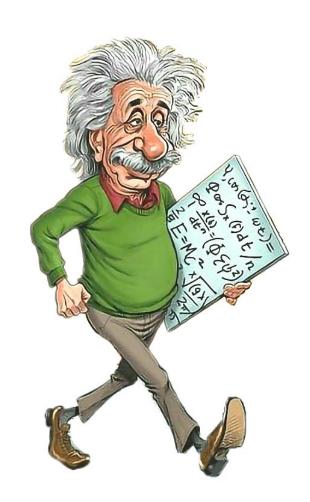
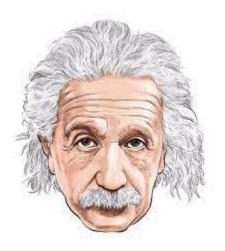
Einstein's 5 Papers That Changed the Face of Physics





In memory of Albert Einstein

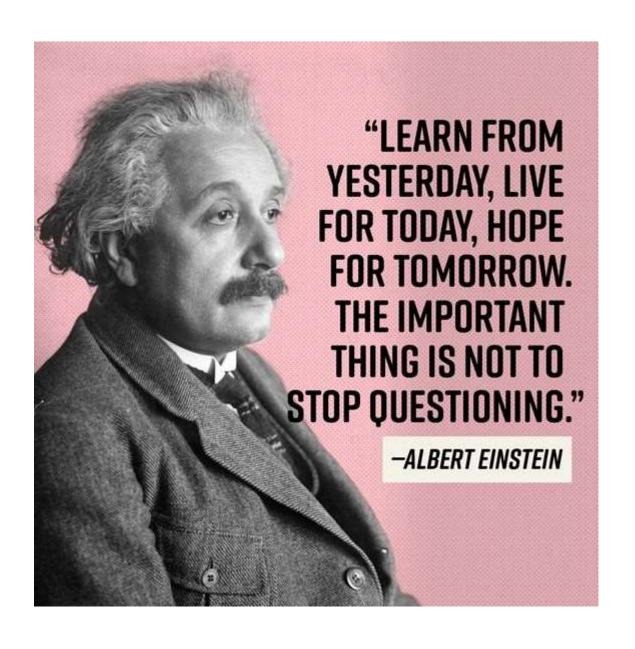
Complied by:

Manjunath.R

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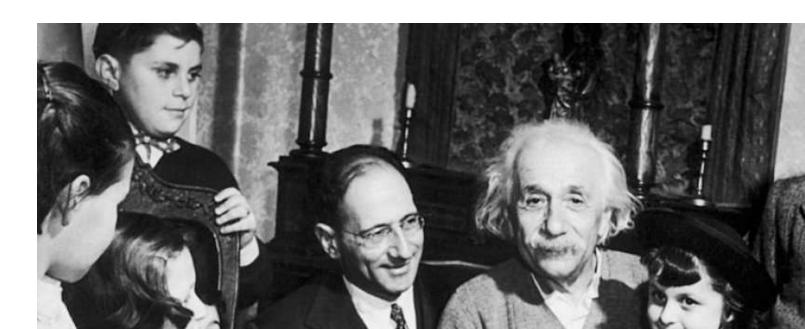
*Corresponding Author Email: manjunath5496@gmail.com

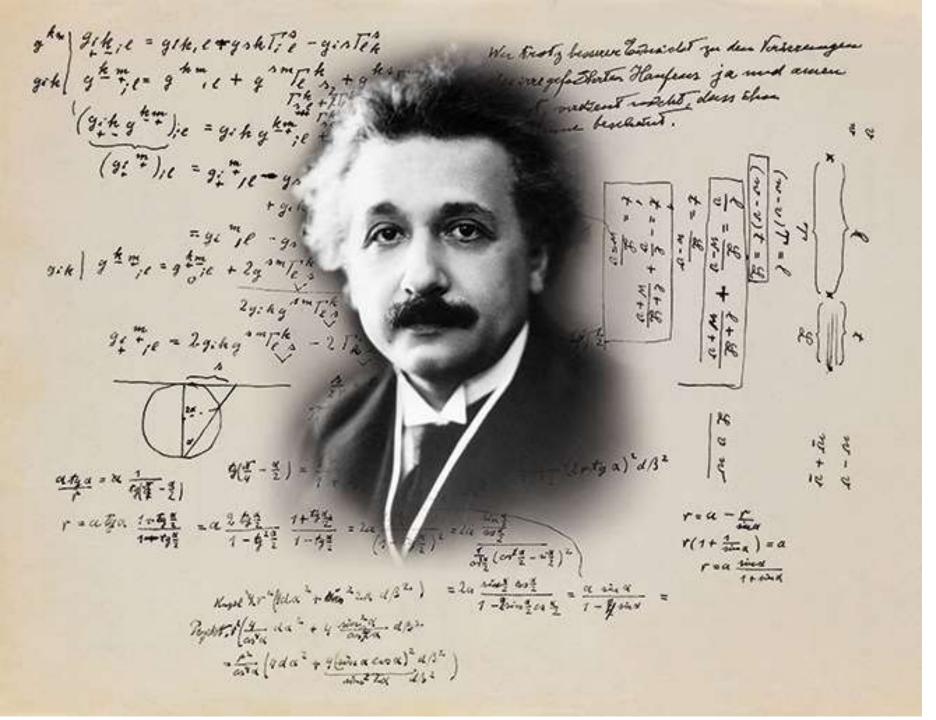
*Website: http://www.myw3schools.com/

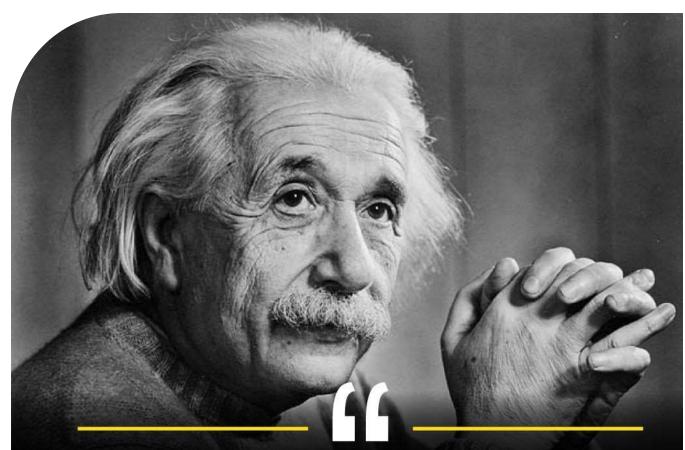




Albert Einstein was a German-born physicist who developed the special and general theories of relativity and won the Nobel Prize for Physics in 1921 for his explanation of the photoelectric effect. Einstein is generally considered the most influential physicist of the 20th century.







To raise new questions, new possibilities, to regard old problems from a new angle, requires creative imagination and marks real advance in science.

- Albert Einstein

On the Electrodynamics of Moving Bodies

It reconciles Maxwell's
equations for electricity and
magnetism with the laws of
mechanics by introducing major
changes to mechanics close to
the speed of light.



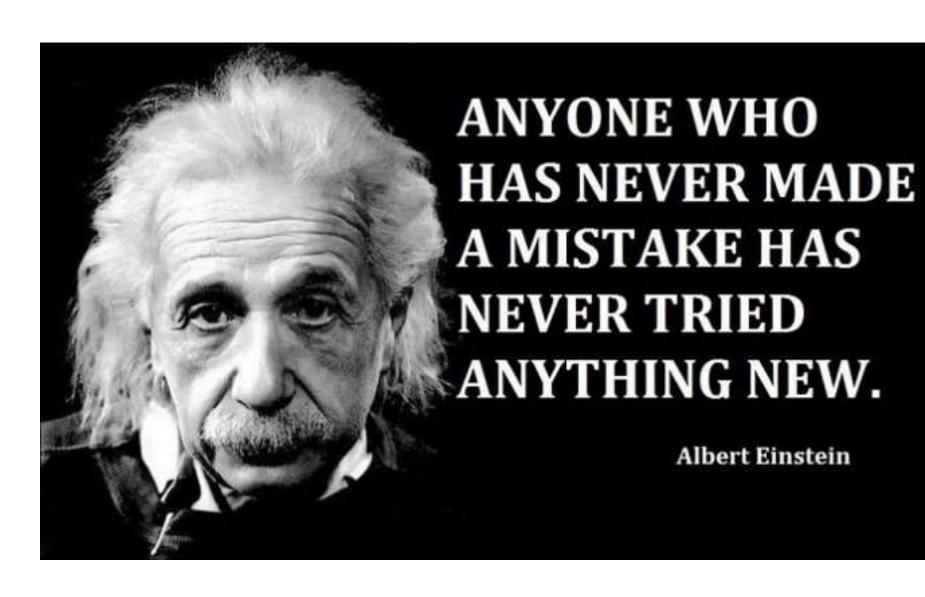
$$\gamma = \frac{1}{\sqrt{1 - \frac{V^2}{c^2}}} \quad x' = \gamma (x - Vt)$$

$$y' = y$$

$$z' = z$$

$$t' = \gamma \left(t - \frac{Vx}{c^2} \right)$$

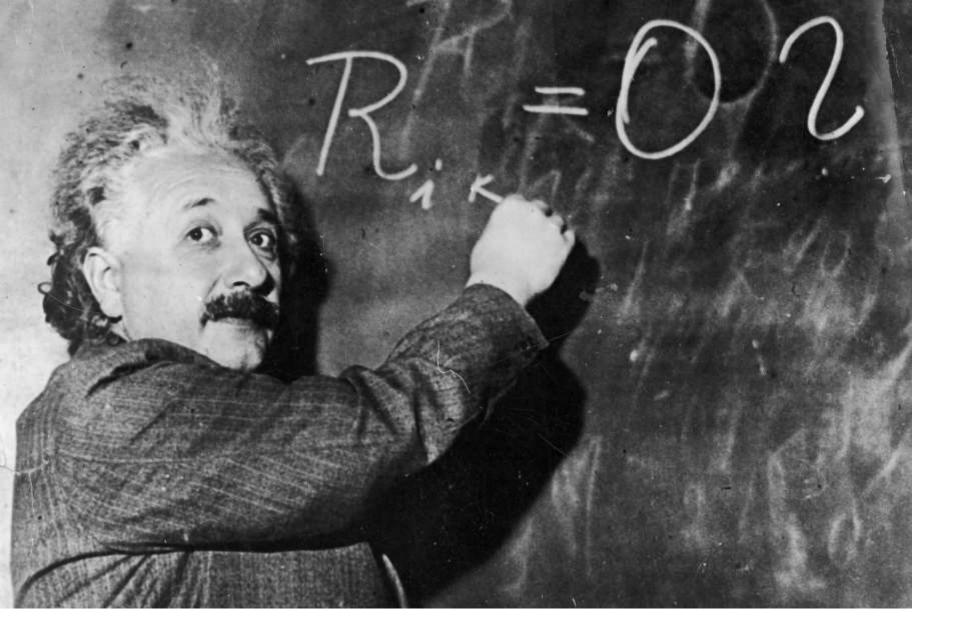
$$(\Delta s)^2 = (\Delta s')^2$$



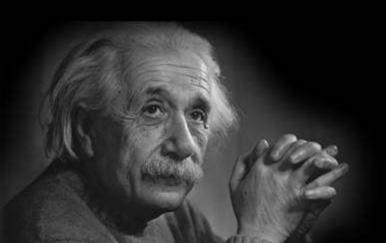
Does the Inertia of a Body Depend on Its Energy Content?



It sets forth that the energy of a body at rest (E) equals its mass (m) times the speed of light (c) squared, or E = mc²



The most beautiful thing we can experience is the mysterious. It is the source of all true art and science.



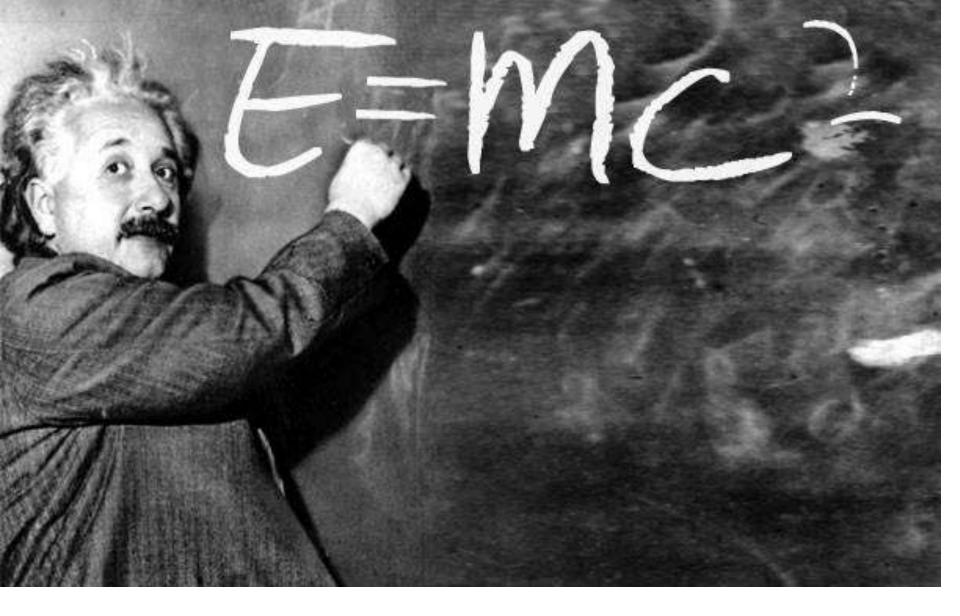
Albert Einstein

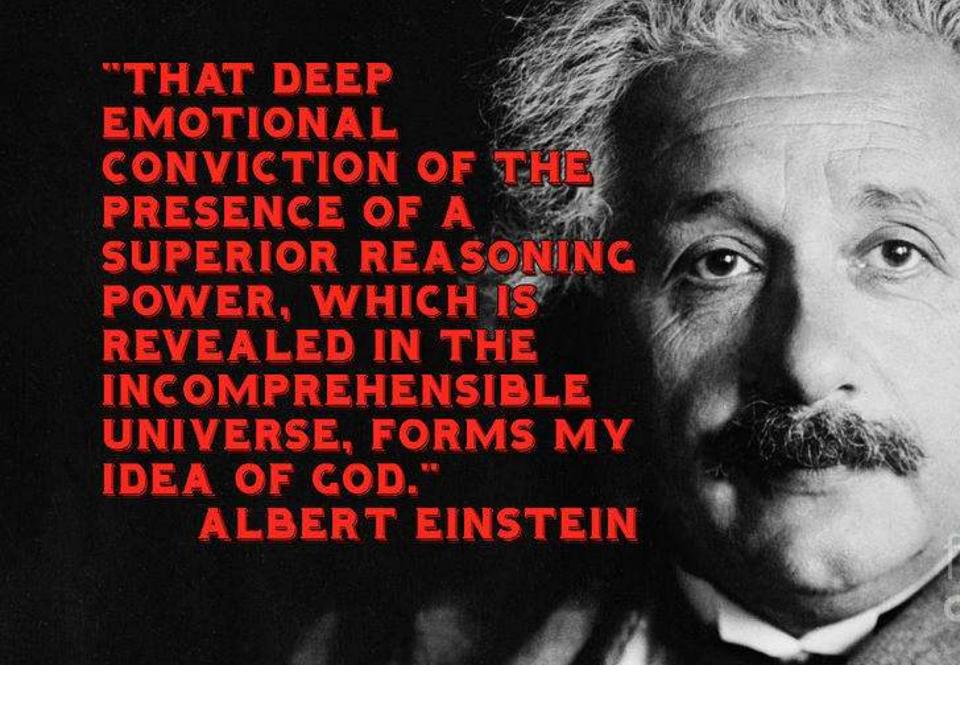
German Theoretical-Physicist (1879-1955)

On a Heuristic Point of View Concerning the Production and Transformation of Light

In this paper, Albert Einstein challenged the wave theory of light, suggesting that light could also be regarded as a collection of particles. This helped to open the door to a whole new world—that of quantum physics.

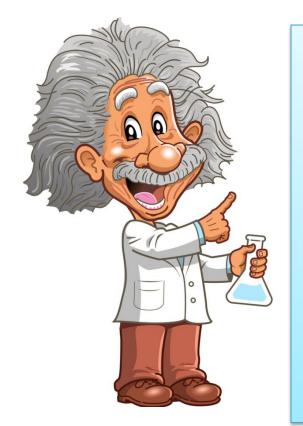






4

On the Movement of Small Particles Suspended in Stationary Liquids Required by the Molecular-Kinetic Theory of Heat



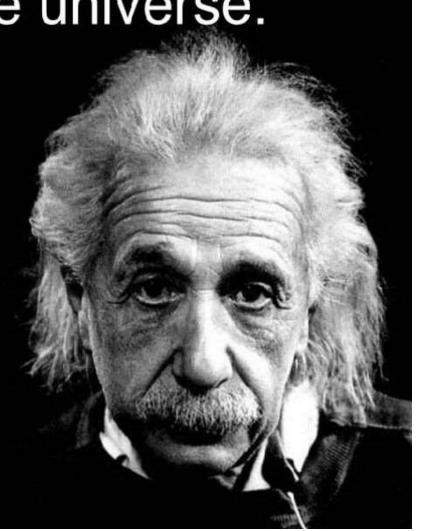
This paper demonstrated how Brownian motion offered experimentalists the possibility to prove that molecules existed, despite the fact that molecules themselves were too small to be seen directly.





"I believe in God who reveals himself in the orderly harmony of the universe."

Albert Einstein

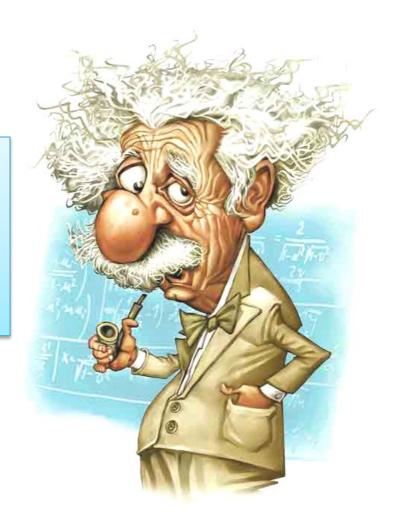


A New Determination of Molecular Dimensions

It shows how to calculate

Avogadro's number and the size of

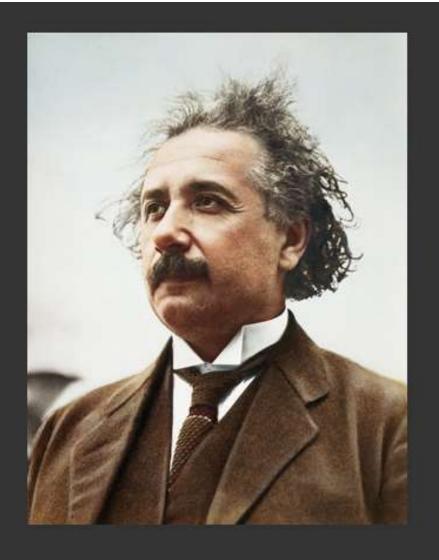
molecules.

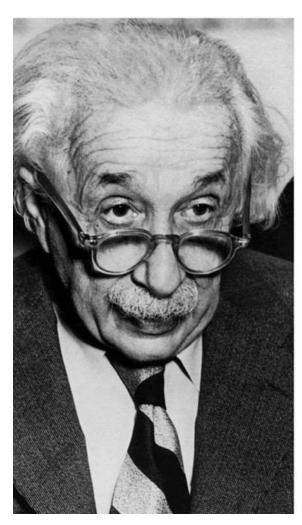


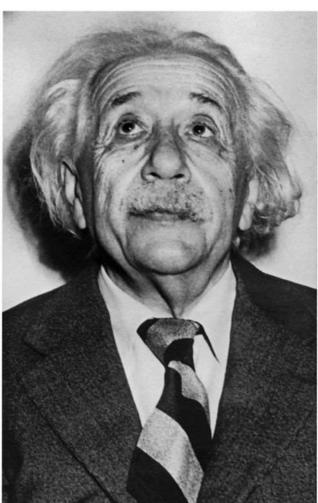


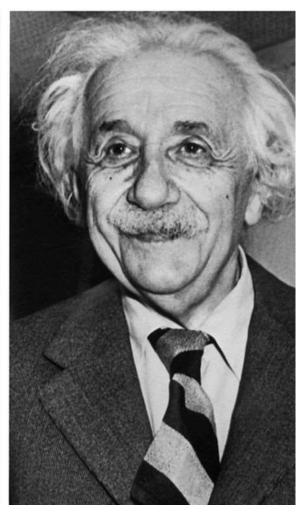
"The world will not be destroyed by those who do evil, but by those who watch them without doing anything."

Albert Einstein











The most beautiful experience we can have is the mysterious... Whoever does not know it and can no longer wonder, no longer marvel, is as good as dead, and his eyes are dimmed."

EINSTEIN on mystery

