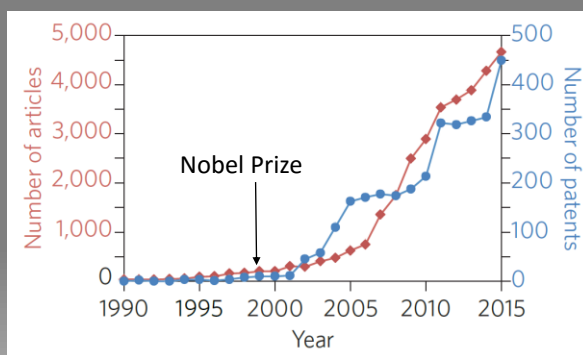


Walter Kohn passed away  
April 19, 2016 at the age of 93



Number of articles and patents in materials science including the term “density functional theory” published per year during the past 25 years.

Walter Kohn at West Beach Santa Barbara at age 75

34 years before  
DFT invention





34 years after  
DFT invention


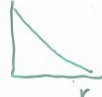


## The Kohn-Sham Ansatz of Density-Functional Theory



Bohr:  electron (light, orbiting)  
+ proton (heavy, fixed)  
Electron = particle

Schrodinger:  Electron = wave  
 $\psi(r)$

DFT  
Walter Kohn  Electron is a density distribution  
in cloud  $n(r)$   
electron cloud 

**To: The American Governmental Representatives**

"The undersigned oppose a preventive war against Iraq without broad international support. Military operations against Iraq may indeed lead to a relatively swift victory in the short-term. But **war is characterized by surprise, human loss, and unintended consequences**. Even with a victory, we believe that the medical, economic, environmental, moral, spiritual, diplomatic, and legal consequences of an American preventive attack on Iraq would undermine, not protect, U.S. security and standing in the world."

National Press Release on  
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The US started the war on March 20, 2003, and more than ½ million people lost their lives. Peace is not in sight (from Afghanistan to Iraq to Libya).

<https://player.vimeo.com/video/163726766>

“Don’t take the easy route and say, ‘It is just me against some huge thing.’

“You have to find the way – not huge – that you can contribute to prevent future catastrophes.”

**Walter Kohn,  
1923-2016**

Walter Kohn receiving an honor from Harvard in 2012.

“Physics isn’t what I do,”  
Walter Kohn once said. “It is what I am.”