

# Johannes Stark

## Quotes

*Atoms, Ions, Moving, Rays, Structure, Facts, Mind, Lines, Discovery, Light, Expression, Numbers, Taken, Greek, Movement, Steps, Owing, Principles, Fields, Years*

Along a series of lines running from longer to shorter wavelengths the effect of the electric field becomes greater as the serial numbers increase - that is, as the wavelength decreases.

~Johannes Stark

By recognizing that the chemical atom is composed of single separable electric quanta, humanity has taken a great step forward in the investigation of the natural world.

~Johannes Stark

By allowing the positive ions to pass through an electric field and thus giving them a certain velocity, it is possible to distinguish them from the neutral, stationary atoms.

~Johannes Stark

A beam of luminous hydrogen canal rays has, owing to its velocity, exactly the same direction as that of the electric field in which it may be made to move.

~Johannes Stark

The question of the composition of perceptible objects is one which already occupied the mind of the ancient Greeks.

~Johannes Stark

The removal of an electron from the surface of an atom - that is, the ionization of the atom - means a fundamental structural change in its surface layer.

~Johannes Stark

We have learnt through experience that when an electrical ray strikes the surface of an atom, an electron, and in some circumstances a second and even a third electron, can be detached.

~Johannes Stark

The emitters of the spectral series are without exception single atoms, not compounds of atoms.

~Johannes Stark

It is more likely that more than a century will pass before we know the structure of the chemical atoms as thoroughly as we do our solar system.

~Johannes Stark

The movement of the emitters of the spectral lines may be deduced on the basis of the Doppler principle.

~Johannes Stark

The discovery of various phenomena has led to a recognition of the fact that the chemical atom is an individual which again is itself made up of several units into a selfcontained whole.

~Johannes Stark

We can in fact first place the beam of rays of moving positive atomic ions in a plane perpendicular to the axis in which we see the spectral lines emitted by them.

~Johannes Stark

Many scientists will have to contribute to the solution of the great problem; they will have to follow up and measure all those phenomena in which the atomic structure is directly expressed.

~Johannes Stark

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