The Fourth Phase of Water
Tuesday October 13, 2020

GUEST SPEAKER SUMMARY
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KEY POINTS
1. What is Exclusion Zone water and how is it influenced by light?
2. Human Biology using Radiant Energy
3. Practical Implications
4. Broad Implications

(EZ) Water is physically different from bulk water
- This type of water is negatively charged.
- EZ layers - layered honeycomb shape structure = H3O2
- Information storage capability

What charges the water battery?
- Incident radiant energy = light
- Experiment: When water is on a Hydrophilic material such as Nafion, there is a parallel boundary called the exclusion zone. Light is responsible for the growth of the exclusion zone - the most effective wavelength is infrared.
- EZ buildup powered by photonic energy orders the water and charges the water battery

Can this energy be harvested?
- Experiment: Water can flow through a hollow tube under water using the energy absorbed from light. Water transduces light energy into mechanical energy.
Does the human biology use radiant energy?

- Energy is needed to squeeze red blood cells through the capillaries.
- The heart develops pressure to push the blood cells through, but this is not the only factor.
- The other source of energy that helps drive flow and push the blood cells through is radiant energy.
- Experiment: examine blood flow on postmortem circulation. When infrared light is applied, the flow increases.

Practical Implications

- Getting energy from water and sunlight
  - An experiment using chambers of Nafion, water, and electrode pairs (one negative, one positive) revealed that water and light together are sufficient to light an LED.
  - This shows promise in the future of energy coming from renewable resources
- Turning contaminated water into drinkable water.
  - The flow of contaminated water going into a tube - EZ zones form and push the contaminated particles into the centre of the tube, extracting and separating the contaminants
  - Can it separate salt, such as ocean water? This experiment begins to show promise in converting ocean water to drinking water without a physical filter. The filtration comes from the energy of the sun which separates the water.

Broad Implications

- Radiant Energy - central and primary implication - Water absorbs radiant energy
- Biological - blood flow
- Chemical - Basic chemistry books do not discuss the topic of EZ water. If these hypotheses are correct, chemistry books will need serious revision
- Weather - A better way to predict weather is by examining the charge in the clouds, rather than alternative factors such as temperature or pressure
- Health - you need EZ water in your cells
- Food - Certain foods have more EZ water than others. EZ water in foods
- Filtration - Practical points of view
- Desalination
- Electricity - Electrical energy from the water