

Chapter 4 Chemical Quantities and Aqueous Reactions

- ❖ Scientists have measured an average 0.6 °C rise in atmospheric temperature since 1860
- ❖ During the same period atmospheric CO₂ levels have risen 25%
- ❖ Are the two trends causal?



Section 4.1 the Sources of Increased CO₂

- ❖ One source of CO₂ is the combustion reactions of fossil fuels we use to get energy
- ❖ Another source of CO₂ is volcanic action
- ❖ How can we judge whether global warming is natural or due to our use of fossil fuels?



Quantities in Chemical Reactions

- ❖ The amount of every substance used and made in a chemical reaction is related to the amounts of all the other substances in the reaction
 - Law of Conservation of Mass
 - Balancing equations by balancing atoms
- ❖ The study of the numerical relationship between chemical quantities in a chemical reaction is called stoichiometry

Reaction Stoichiometry

- ❖ The coefficients in a balanced chemical equation specify the relative amounts in moles of each of the substances involved in the reaction

$$2 \text{C}_8\text{H}_{18}(l) + 25 \text{O}_2(g) \rightarrow 16 \text{CO}_2(g) + 18 \text{H}_2\text{O}(g)$$
- ❖ 2 molecules of C₈H₁₈ react with 25 molecules of O₂ to form 16 molecules of CO₂ and 18 molecules of H₂O
- ❖ 2 moles of C₈H₁₈ react with 25 moles of O₂ to form 16 moles of CO₂ and 18 moles of H₂O
- ❖ 2 mol C₈H₁₈ : 25 mol O₂ : 16 mol CO₂ : 18 mol H₂O

Making Pizza

- ❖ The number of pizzas you can make depends on the amount of the ingredients you use
 - 1 crust + 5 oz. tomato sauce + 2 oz. cheese → 1 pizza
- ❖ This relationship can be expressed mathematically

Chapter 4 Chemical Quantities And Aqueous Reactions

Answer Key

Nivaldo J. Tro



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Oxygen transport in thin oxide films at high field strength Dieter Weber, 2014 Ionic transport in nanostructures at high field strength has recently gained attention because novel types of computer memory with potentially superior properties rely on such phenomena. The applied voltages are only moderate but they drop over the distance of a few nanometers and lead to extreme field strengths in the MV/cm region. Such strong fields contribute significantly to the activation energy for ionic jump processes. This leads to an exponential increase of transport speed with voltage. Conventional high temperature ionic conduction in contrast only relies on thermal activation for such jumps. In this thesis the transport of minute amounts of oxygen through a thin dielectric layer sandwiched between two thin conducting oxide electrodes was detected semiquantitatively by measuring the conductance change of the electrodes after applying a current through the dielectric layer. The relative conductance change G/G_0 as a function of current I and duration t follows over several orders of magnitude a simple empirical law of the form $G/G_0 = C I^A t^B$ with t parameters C , A and B . $A \approx 2.0$, $B \approx 0.1$. This empirical law can be linked to a predicted exponential increase of the transport speed with voltage at high field strength. The behavior in the time domain can be explained with a spectrum of relaxation processes similar to the relaxation of dielectrics. The influence of temperature on the transport is strong but still much lower than expected. This contradicts a commonly used law for high field ionic transport. The different oxide layers are epitaxial with thicknesses between 5 and 70 nm. First large scale test samples were fabricated using shadow masks. The general behavior of such devices was studied extensively. In an attempt to achieve quantitative results with defect free miniaturized devices a lithographic manufacturing process that uses repeated steps of epitaxial deposition and structuring of the layers was developed. It employs newly developed and optimized wet chemical etching processes for the conducting electrodes. First high quality devices could be manufactured with this process and confirmed that such devices suffer less from parasitic effects. The lithographically structured samples were made from different materials. The results from the first test samples and the lithographically structured samples are therefore not directly comparable. They do exhibit however in principle the same behavior. Further investigation of such lithographically structured samples appears promising.

Introductory Chemistry Nivaldo J. Tro, 2006 **Instructors Guide to Media and Print Resources** McMurry, DonnaJean Fredeen, Robert Pribush, 1998-01-30 Saunders Interactive General Chemistry CD-ROM Mary L. Kotz, John C. Kotz, William J. Vining, Justin T. Fermann, 1998-11 **Chemistry** DonnaJean Fredeen, John E. McMurry, Robert C. Fay, 1998. For each chapter the study guide includes learning goals, an overview, progressive review, section worked examples and self tests with answers.

Instructor's Resource Manual Silberberg, 1999-07 Student's Guide, Chemistry, the Central Science James C. Hill, 1991

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