

CHEM 8212 Advanced Analytical Chemistry
Midterm Exam
March 24, 2020

Answer the following questions about each topic:

1. (30 pts) **Metal nanoparticles:**

- a) (10 pts) Explain localized surface plasmon resonance (LSPR).
- b) (10 pts) Why do gold nanorods have two absorption peaks?
- c) (10 pts) Give one method to make gold nanorods and outline the major steps.

a) LSPR is the collective oscillation of free electrons (conduction band electrons) of a metal that is in resonance with the incident light and confined to a finite volume such as a nanoparticle.

b) Gold nanorods have two absorption peaks because the free electrons can collectively oscillate in two directions, one along with the long axis of the rod resulting in longitudinal absorption peak, and the other along with the short axis resulting in transverse absorption peak.

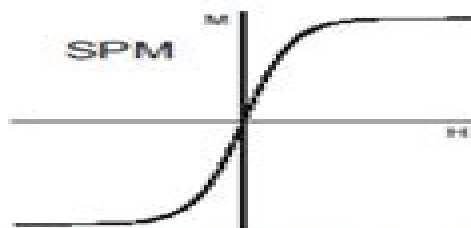
c) The most common method to make gold nanorods is Seed-Mediated Growth method. The major steps are:
Step 1: Preparation of the seed. In this step, ice-cold NaBH_4 reduces HAuCl_4 solution to form small gold nanoparticles of 2-5 nm.

Step 2: Growth of gold nanorods. In a growth solution containing HAuCl_4 , AgNO_3 , and CTAB, ascorbic acid is added to reduce the gold salt to Au^0 precursors. Then the seed solution is introduced to initiate the anisotropic growth of the gold seed into rod shape.

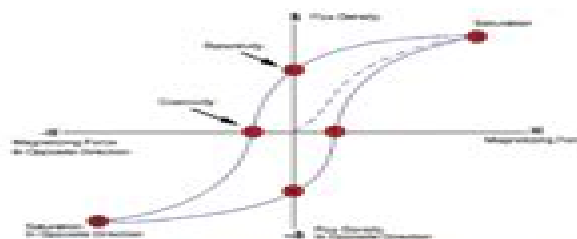
2. (30 points) **Magnetic nanoparticles:**

- a) (20 pts) Schematically compare the differences of superparamagnetic and ferromagnetic properties.
- b) (10 pts) Design a nanostructure that can be used for both magnetic resonance imaging and dark field light scattering imaging.

a) **Superparamagnetic**



Ferromagnetic



b) Iron oxide-gold core-shell nanoparticles. Due to the magnetic properties of the iron oxide core, the nanoparticles can be used for magnetic resonance imaging. Due to the optical properties of the gold shell, the nanoparticles can be used for dark field light scattering imaging.

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Jr. Lucas, Jr.



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Problems and Problem Solving in Chemistry Education Georgios Tsapalis, 2021-05-17 Problem solving is central to the teaching and learning of chemistry at secondary tertiary and post tertiary levels of education opening to students and professional chemists alike a whole new world for analysing data looking for patterns and making deductions As an important higher order thinking skill problem solving also constitutes a major research field in science education Relevant education research is an ongoing process with recent developments occurring not only in the area of quantitative computational problems but also in qualitative problem solving The following situations are considered some general others with a focus on specific areas of chemistry quantitative problems qualitative reasoning metacognition and resource activation deconstructing the problem solving process an overview of the working memory hypothesis reasoning with the electron pushing formalism scaffolding organic synthesis skills spectroscopy for structural characterization in organic chemistry enzyme kinetics problem solving in the academic chemistry laboratory chemistry problem solving in context team based active learning technology for molecular representations IR spectra simulation and computational quantum chemistry tools The book concludes with methodological and epistemological issues in problem solving research and other perspectives in problem solving in chemistry With a foreword by George Bodner

Digital Learning and Teaching in Chemistry Yehudit Dori, Courtney Ngai, Gabriela Szeinberg, 2023-07-12 Education is always evolving and most recently has shifted to increased online or remote learning Digital Learning and Teaching in Chemistry compiles the established and emerging trends in this field specifically within the context of learning and teaching in chemistry This book shares insights about five major themes best practices for teaching and learning digitally digital learning platforms virtual visualisation and laboratory to promote learning in science digital assessment and building communities of learners and educators The authors are chemistry instructors and researchers from nine countries contributing an international perspective on digital learning and teaching in chemistry While the chapters in this book span a wide variety of topics as a whole they focus on using technology and digital platforms as a method for supporting inclusive and meaningful learning The best practices and recommendations shared by the authors are highly relevant for modern chemistry education as teaching and learning through digital methods is likely to persist Furthermore teaching chemistry digitally has the potential to bring greater equity to the field of chemistry education in terms of who has access to quality learning and this book will contribute to that goal This book will be essential reading for those working in chemical education and teaching Yehudit Judy Dori is internationally recognised formerly Dean of the Faculty of Education of Science and Technology at the Technion Israel Institute of Technology and won the 2020 NARST Distinguished Contributions to Science Education through Research Award DCRA for her exceptional research contributions Courtney Ngai and Gabriela Szeinberg are passionate researchers and practitioners in the education field Courtney Ngai is the Associate Director of the Office of Undergraduate Research and Artistry at Colorado State University Gabriela Szeinberg

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The Hidden Curriculum - Faculty Made Tests in Science Sheila Tobias,1997 **Examination Questions**

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