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INDIAN STREAMS RESEARCH JOURNAL

International Recognition Multidisciplinary Research Journal

DOI Prefix : 10.9780

Journal DOI : 10.9780/22307850

ISSN 2230-7850

Impact Factor : 5.1651(UIF)



ORIGINAL ARTICLE

Vol. VII, Issue : V, June - 2017

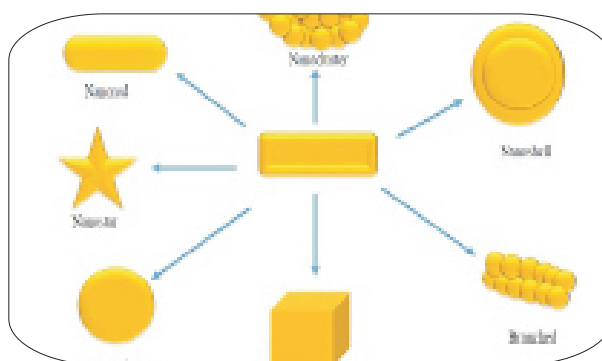
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SPIN POLARIZATION OF GOLD NANOPARTICLES IN AC FIELDS



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ARTICLE REVIEW REPORT

Spin Polarization Of Gold Nanoparticles In Ac Fields

Arvindkumar Singh¹, Amitkumar² and Dr. Ak Singh³

ABSTRACT:

The problem statement was clear and well articulated. Optical and catalytic properties appear as the size of a bulk material is reduced to the nanometer scale when one encounters the so-called size effects. Upon reducing the size of a particle to a few hundred of nanometers, the first size effect encountered is the surface effect, where the ratio between the numbers of surface and core atoms is no longer ignorable, so that the surface properties are revealed together with the bulk behavior.

INTRODUCTION:

The introduction provides a good, generalized background of the topic that quickly gives the reader an appreciation. Novel electronic, optical and catalytic properties appear as the size of a bulk material is reduced to the nanometer scale when one encounters the so-called size effects. There are three size effects that have been identified which can significantly alter the electron and lattice structures of a particle. Upon reducing the size of a particle to a few hundred of nanometers, the first size effect encountered is the surface effect, where the ratio between the numbers of surface and core atoms is no longer ignorable.

METHODOLOGY:

Author has not mentioned any specific methodology. This study was descriptive in nature. Must add methodology in your article. Methodology used to per research topic.

PRESENTATION OF RESULTS:

The amount of data presented was sufficient and appropriate. Tables, graphs, or figures were used judiciously and agree with the text. Many studies related to the magnetic properties of Au nanoparticles have been performed on polymer-capped Au nanoparticles. The present study, nevertheless, focuses on identifying the magnetic properties and the critical particle size for developing sizable spontaneous magnetic moments of bare Au nanoparticles. Seven sets of bare Au nanoparticle assemblies were fabricated employing the gas condensation method, which adopts a physical process involving the self-nucleation of atoms to form capping free Au nanoparticles.

REFERENCES:

Prior publication by the author(s) of substantial portions of the data or study was appropriately acknowledged.

RELEVANCE:

The study was relevant to the mission of the journal or its audience. The study addresses important problems or issues; the study was worth doing.

FUTURE RESEARCH SCOPE:

1. International Upcoming Events in Physics (<http://phys.colorado.edu/upcoming-events>)
2. Upcoming Physics & Astronomy Events (<http://www.pa.ucla.edu/events>)
3. Research Projects in Physics
(http://solar.physics.montana.edu/sol_phys/projects.shtml)
4. 3rd July 2014 3rd International Conference on Civil Engineering and Materials (ICCEM 2014) (<http://www.iccem.org/>)
5. 1st to 3rd August 2014 3rd Chaos, Complexity and Leadership (<http://www.iccls.org>)

SUMMARY OF ARTICLE

		Very High	High	Average	Low	Very Low
1.	Interest of the topic to the readers			✓		
2.	Originally & Novelty of the ideas	✓				
3.	Importance of the proposed ideas		✓			
4.	Timelines			✓		
5.	Sufficient information to support the assertions made & conclusion drawn		✓			
6.	Quality of writing(Organization, Clarity, Accuracy Grammer)	✓				
7.	References & Citation(Up-to-date, Appropriate Sufficient)		✓			

Future Research Suggestions

This Article can expand further research for MINOR/MAJOR Research Project at UGC

