

origin of ferromagnetism in oxide-based diluted magnetic ... - origin of ferromagnetism in oxide-based diluted magnetic semiconductors by numan akdoğan a dissertation submitted to the faculty of physics and astronomy for the degree of doctor of philosophy in physics ruhr-universität bochum bochum, germany february 2008. mit genehmigung des dekanats vom 03.12.2007 wurde die dissertation in englischer sprache verfasst. mit genehmigung des dekanats vom ... **magnetism of iron oxide based core-shell nanoparticles ...** - magnetism of iron oxide based core-shell nanoparticles from interface mixing with enhanced spin-orbit coupling e. skoropata, 1,* r. d. desautels, c.-c. chi, 2 h. ouyang, 2 j. w. freeland, 3 and j ... **origin of magnetism in cobalt-doped indium tin oxide thin films** - origin of magnetism in cobalt-doped indium tin oxide thin films ... generation spintronics-based multifunctional devices.1 an ideal intrinsic dmo exhibits ferromagnetism as a result of a coupling ... **microscopic origin of magnetism in the hematite-ilmenite ...** - microscopic origin of magnetism in the hematite-ilmenite system by seyed hasan sadat nabi phd thesis submitted in partial fulfillment of the requirements for the degree of **defects induced magnetism in wo3 and reduced graphene ...** - it is predicted that the origin of ferro-magnetism may be due to exchange interactions between unpaired electron spin arising from oxygen vacancies at the surface of metal oxide nanoparticles. this information threw a wider insight onto the origin of magnetism in oxide nanostructures. the magnetic behavior of metal oxide nanostructures is strongly dependent on shape, size, and structural ... **magnetism and its microscopic origin in iron-based high ...** - magnetism and its microscopic origin in iron-based high-temperature superconductors pengcheng dai1,2*, jiangping hu2,3 and elbio dagotto1,4* high-temperature superconductivity in the iron-based materials emerges from, or sometimes coexists with, their metallic or insulating parent compound states. this is surprising, as these undoped states exhibit dramatically different antiferromagnetic spin ... **magnetic properties and oxygen defects of dilute metal ...** - moment in oxide semiconductors increases by doping them with small amounts of magnetic ions, and why the dmss show high curie temperature. the study of the magnetism in diluted magnetic oxides became an interesting issue over the last ... **07 chapter - i - information and library network centre** - origin of magnetism: the macroscopic magnetic properties of materials are consequence of magnetic moments associated with individual electrons. each electron in an atom has magnetic moments that originate from two sources. one is related to its orbital motion around the nucleus; being a moving charge and electron may be considered . 2 to be a small current loop, generating a very small ... **origin of magnetism in la and fe doped srtio3 thin films** - origin of magnetism in la and fe doped srtio3 thin films m. egilmez, a g. w. leung, a. m. h. r. hakimi, and m. g. blamire department of materials science and metallurgy, university of cambridge ... **electrical control of magnetism in oxides - researchgate** - chin. phys. b vol. 25, no. 6 (2016) 067502 topical review "low-dimensional complex oxide structures electrical control of magnetism in oxides **native defect-induced multifarious magnetism in ...** - native defect-induced multifarious magnetism in nonstoichiometric cuprous oxide: ... native defects in cuprous oxide cu₂o are investigated by using first-principles calculations based on density-functional theory. considering the formation of copper and oxygen vacancies, antisites and interstitials, and a copper split-vacancy complex defect, we analyze the electronic structure and calculate ... **magnetic oxide semiconductors - arxiv** - magnetic oxide semiconductors, oxide semiconductors doped with transition metal elements, are one of the candidates for a high curie temperature ferromagnetic semiconductor that is important to realize semiconductor spintronics at room temperature. we review in this paper recent progress of researches on various magnetic oxide semiconductors. the magnetization, magneto-optical effect, and ... **this document is downloaded from dr-ntu, nanyang ...** - this document is downloaded from dr-ntu, nanyang technological university library, singapore. title magnetism in graphene oxide induced by epoxy groups **magnetic materials: history - university of birmingham** - magnetic materials: history the history of permanent magnetism dates back over many centuries. the earliest observations of magnetism can be traced back to the greek philosopher thales in the 6th century b.c.

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