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Electron Paramagnetic Resonance Investigations Of
Air-fired barium titanate samples doped with cerium, neodymium, samarium, gadolinium, dysprosium, erbium, or ytterbium were examined by electron paramagnetic resonance (EPR). Reducing atmosphere-fired europium-doped barium titanate was also investigated with EPR. Each dopant was studied in both Ba- and Ti-rich (Ba/Ti = 1.01, 0.99) samples.

Electron Paramagnetic Resonance Investigations of ...
An EPR study on fibers of polyaniline blends has been shown to reflect mesoscopic structural/electronic changes induced by electrospinning. It is therefore suggested that the EPR technique can be applied to investigate electron localization effects in true nanofibers (diameter <100 nm) of organic polymers.

Electron paramagnetic resonance investigations of ...
Electron Paramagnetic Resonance Investigations of Biological Systems by Using Spin Labels, Spin Probes, and Intrinsic Metal Ions Part A & B, are the latest volumes in the Methods in Enzymology series, continuing the legacy of this premier serial with quality chapters authored by leaders in the field.

Electron Paramagnetic Resonance Investigations of ...
Electron paramagnetic resonance of single-walled carbon nanotubes (SWCNTs) has been bedevilled by the presence of paramagnetic impurities. To address this, SWCNTs produced by laser ablation with a nonmagnetic PtRhRe catalyst were purified through a multiple step centrifugation process in order to remove amorphous carbon and catalyst impurities.

Electron Paramagnetic Resonance Investigation of Purified ...
Electron paramagnetic resonance investigations of CO adsorption on RuY zeolite June 2002 Bulletin of the Polish Academy of Sciences, Technical Sciences 50(2):267-279

(PDF) Electron paramagnetic resonance investigations of CO ...
Electron paramagnetic resonance investigation of charge trapping centers in amorphous silicon nitride films Journal of Applied Physics 74, 4034 (1993 ... (a-SiN x:H) thin films, and its relationship to the charge trapping centers using electron paramagnetic resonance ...

Electron paramagnetic resonance investigation of charge ...
Electron paramagnetic resonance investigation of photosynthetic reaction centers from Rhodobacter sphaeroides R-26 in which Fe2+ was replaced by Cu2+. Determination of hyperfine interactions and exchange and dipole-dipole interactions between Cu2+ and QA-.

Electron paramagnetic resonance investigation of ...
Electron paramagnetic resonance or electron spin resonance spectroscopy is a method for studying materials with unpaired electrons. The basic concepts of EPR are analogous to those of nuclear magnetic resonance, but it is electron spins that are excited instead of the spins of atomic nuclei. EPR spectroscopy is particularly useful for studying metal complexes or organic radicals. EPR was first observed in Kazan State University by Soviet physicist Yevgeny Zavoisky in 1944, and was ...

Electron paramagnetic resonance - Wikipedia
Electron paramagnetic resonance (EPR) or electron spin resonance (ESR) is one of the most informative techniques on the electronic structure of paramagnetic species. EPR spectroscopy is particularly suitable for the investigation of (bio)chemical systems with strongly localized spin density and their interaction with the environment.

Electron Paramagnetic Resonance (EPR) | Zurich Instruments
On the basis of the improved ligand field theory, the electron paramagnetic resonance (EPR) parameters for Cu 2+ in rutile TiO 2 at low temperature are theoretically investigated by using the improved perturbation formulas of the above EPR parameters for a 3d 9 ion in rhombically (D 2h) distorted octahedra.In the calculation formulas, the crystal field parameters are determined from the ...

Theoretical investigations of the electron paramagnetic ...
EUROPHYSICS LETTERS 1 April 1996 Europhys. Lett., 34 (1), pp. 31-36 (1996) Investigation of electron paramagnetic resonance in carbon tubes P. Byszewski 1;2 and A. Nabia˙lek 1 Institute of Physics PAN - al.Lotnik¶ow 32/46, 02-668 Warszawa, Poland 2 Institute of Vacuum Technology - ul.D˙luga 44/50, 00-241 Warszawa, Poland (received 17 October 1995; accepted in final form 6 February 1996)

Investigation of electron paramagnetic resonance Magnetic ...
Abstract. An X-band electron paramagnetic resonance study at 5 K of 0953-8984/10/14/014/img8 ions in 0953-8984/10/14/014/img9 single crystals is reported.

Electron paramagnetic resonance investigation of ? ions in ...
INSTITUTE OF PHYSICS PUBLISHING JOURNAL OF PHYSICS: CONDENSED MATTER J. Phys.: Condens. Matter 14 (2002) 10331–10348 PII: S0953-8984(02)38039-1 Electron paramagnetic resonance investigations of α-Al 2O 3 powders doped with Fe3+ ions: experiments and simulations JYBuzare´1,GSilly1,JKlein2,GScholz2,RSto¨sser2 and M Nofz3 1 Laboratoire de Physique de l'Etat CondenseU ´MR CNRS no 6087 ...

Electron paramagnetic resonance investigations of O ...
In this work, the thienyl-substituted phenazines are investigated in more detail by time-resolved electron paramagnetic resonance (EPR) and quantum chemical calculations. Spin dynamics, zero-field splitting constants, and electron-spin structures of the excited triplet states for the metal-free room-temperature triplet emitters are correlated with phosphorescence efficiency.

Time-Resolved Electron Paramagnetic Resonance and ...
The Application of Pulsed Electron Paramagnetic Resonance to the Investigation of Protein Structure. Michael Stevens; Nucleic ... Pulsed electron-electron double resonance (PELDOR) is a pulsed electron paramagnetic resonance (pulsed EPR) technique used for measuring distances and on rare occasions orientations within biomolecular structures ...

The Application of Pulsed Electron Paramagnetic Resonance ...
The exploration of heavy main-group radicals is rapidly expanding, for which electron paramagnetic resonance (EPR) spectroscopic characterisation plays a key role. EPR spectroscopy has the capacity to deliver information of the radical's electronic, geometric and bonding structure. Herein, foundations of ele 2020 Frontier and Perspective articles

Applications of electron paramagnetic resonance ...
INTRODUCTION. Electron paramagnetic resonance (EPR) spectroscopy, a technique for studying paramagnetic targets, is an indispensable component of magnetic resonance spectroscopy for investigations of molecular structures and fast dynamics ().An important goal of this technique is to extract precise information from small-volume samples (), which requires both high spatial and high spectral ...

Kilohertz electron paramagnetic resonance spectroscopy of ...
Continuous wave (cw) and pulsed electron paramagnetic resonance (EPR) spectroscopy on spin-labeled membrane proteins provides information about the structure and dynamics of the biomolecule in the lipid bilayer or in membrane mimics such as nanolipoprotein particles (nanodiscs) and detergents.