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structures of  
nickel and  
cobalt ferrites  
were deposited  
on Nb doped  
SrTiO<sub>3</sub> by  
pulsed laser  
deposition. X-  
Ray diffraction  
and atomic force  
microscopy  
showed that the  
films have a  
good crystalline



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quality and  
smooth surfaces.  
A larger number  
of phonon bands  
was observed in  
the polarization  
dependent Raman  
spectra of the  
ferrite films  
than expected  
for the cubic  
spinel  
structures.

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magneto-optical  
study of nickel  
and cobalt ...*

Spectroscopic  
ellipsometry and  
the polar  
magneto-optical  
Kerr effect  
( $1.5 < h\nu < 5.5$  eV)  
have been used  
to study the  
properties of a  
cobalt ferrite

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(CoFe<sub>2</sub>O<sub>4</sub>)  
single crystal,  
grown from the  
flux. The  
magnitude of the  
polar Kerr  
rotation both in-  
field and in  
remanence were  
used to study  
the polishing  
action and  
subsequent  
etching.

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*An ellipsometric  
and magneto-  
optical study of  
cobalt . . .*

In this study,  
we discussed the  
optical  
properties  
(Faraday  
rotation,  
transmittance  
and Merit  
factor) of two

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and an  
additional  
hydrothermal  
synthesis of  
cobalt ferrite  
( $\text{CoFe}_2\text{O}_4$ )  
developed  
according to the  
protocol  
developed by R.

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Massart at the  
PHENIX  
laboratory at  
Pierre and Marie  
Curie University  
in the form of  
ferrofluids.

*Study of the  
Optical  
Properties of  
Cobalt Ferrite  
Magnetic ...  
Among them,*

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molybdates  
(CoMoO<sub>4</sub>)

semiconductor is  
attractive  
materials,  
because of their  
exclusive  
properties viz.,  
structural, elec  
tro-magnetic,  
and opto-  
catalytic  
properties,,.

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The CoMoO<sub>4</sub> is beneficial due to cost effective, non-poisonous and its better electrochemical and optical behavior.

*Electrochemical  
and magneto-  
optical  
properties of*



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In this work we present core-shell nanowire arrays of gold coated with a nanometric layer of cobalt. Despite the extremely small Co volume, these core-shell nanowires

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display large  
magneto-optical  
activity and  
plasmonic  
resonance  
determined by  
the geometry of  
the structure.  
Therefore, we  
are able to tune  
both the  
plasmonic and  
magneto-optical  
response in the

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properties of  
gold core cobalt*

...

In this work, we investigated the macroscopic (magneto-)optical response of chemisorbed  $\alpha$ -helical

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polyalanine self-  
assembled  
monolayers

(SAMs) on a gold

and gold-capped-

cobalt thin film

on Au substrates

using

spectroscopic

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properties of  
cobalt-layers by*

...

A magneto-  
optical study of  
 $\text{Co}_x\text{Fe}_{1-x}\text{Fe}_2\text{O}_4$   
nanoparticles is  
presented, with  
cobalt molar  
ratio 0.x.1. The  
ferrite

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were produced using a generic wet-chemical synthesis procedure.

Stoichiometric amounts of  $\text{Fe}^{2+}$ ,  $\text{Fe}^{3+}$  and  $\text{Co}^{2+}$  salts are dissolved in a non-aqueous polar medium (diethylene

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glycol). A coprecipitation reaction with sodium hydroxide produces ferrite nanoparticles with average diameter of 6 nm.

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thin films. In

this work, we

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measurements on

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insulating thin

films. We used a

monochromator



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monochromatic  
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polarized light.

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As the material  
to study we used

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several samples  
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thin films  
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optical studies  
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A magneto-  
optical study of  
Co. x. Fe. 1-x.  
Fe. 2. 0. 4 .  
nanoparticles is  
presented, with  
cobalt molar  
ratio  $0 \leq x \leq 1$ .  
The ferrite  
nanoparticles

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Nanoparticles  
were produced  
using a generic  
wet-chemical  
synthesis  
procedure.

Stoichiometric  
amounts of Fe.  
2+, Fe. 3+ and  
Co. 2+ salts are  
dissolved in a  
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dependence of  
the properties  
of Co

nanoclusters

deposited on AlN

with growth

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discussed. Also  
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embedded Co ...

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embedded in AlN  
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investigation indicates the presence of a certain amount of three valent cobalt ions within the majority of two valent cobalt states.

Keywords:  
HEXAGONAL  
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Abstract: Cd<sup>2+</sup>  
doped cobalt

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ferrite magnetic  
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with the formula  
 $Cd_xCo_{1-x}Fe_2O_4$  ( $x$   
 $= 0.0, 0.1, 0.2,$   
 $0.3, 0.4, 0.5$ )

were

successfully  
synthesized and  
coated by silica  
shell. The  
effects of non-  
magnetic  $Cd^{+2}$   
doping and

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silica coating  
on structural,  
magnetic, and  
optical

properties of  
CoFe<sub>2</sub>O<sub>4</sub> nano-par-  
ticles had been  
investigated.

XRD patterns  
confirmed that  
all samples were  
found to have a  
cubic spinel  
structure with

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average  
crystallite  
sizes 15–43 nm.  
Ferrite

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@article{Ayadi20  
02FaceCC,  
title={Face  
centered cubic  
cobalt layer on

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Au(111): a magneto-optical study},  
author={M. Ayadi and R. Belhi and N. Mliki and K. Abdelmoula and J. Ferr{\`e} and J. Jamet},  
journal={Journal of Magnetism and Magnetic Materials},  
year={2002},

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cubic cobalt  
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In diluted  
magnetic  
semiconductors  
(DMS's), the  
presence of



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transition metal ions with localized spin moments leads to enhanced magneto-optical (MO) effects. These effects arise from the sp-d exchange interaction between the band electrons and the localized 3d

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electrons. The  
sp-d exchange  
constants  
 $N_0\alpha$  and  
 $N_0\beta$  and the  
magnetization  
determine the  
size of these  
effects.

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Transition Metal  
Alloys CADMIUM(1*

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...  
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San Jose,  
California

(Received 14  
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2004) We present  
a structural,  
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magneto-optical effects found in the fluorides are connected with spin-flipping of the magnetic sublattices by the external field. This may be due to a significant spin-orbital exchange in

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responsible for  
the absorption  
bands) which  
respond to the  
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magnetic  
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