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Properties Of
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The optical

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properties of
nanoscale
composite
materials are often
quite different from
the properties of
the constituent
materials from
which the
composite is
constructed. The
formation of

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composite materials thus constitutes a means for engineering new materials with desired optical properties. In this paper we review theories and models that have been devised for

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relating the linear
and ...
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~~Optical Properties
of Nanostructured
Optical Materials~~

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In recent years,
the photonics
community has
shown a keen
interest in the

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Review

optical properties
of nanostructured
materials, owing to
their capability to
manipulate light.

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properties of
nanostructured
materials: A review~~
Optical Properties
of Materials

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Generally, models used to study the optical properties of nanostructures are based on the electromagnetic theory, but when the dimension of a semiconductor nanocrystal is

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Review

smaller than the
de Broglie
wavelength,
quantum
phenomena must
be considered.

~~Optical properties
of nanostructured
materials: a review~~
Abstract. We
theoretically study

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the electronic and optical properties of nanostructured MoS₂ systems focusing on the influence of reduced spatial dimensions and edge effects, which lead to the change in character from

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semiconducting to metallic. For nanowires, we identify edge types which lead to the creation of a bandgap, reflecting the effect of confinement: with increasing the size of the wire in lateral direction

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Review

and/or number of MoS₂ layers, the gap reduces.

~~Electronic and optical properties of nanostructured MoS₂ ...~~

Usually the nanomaterial properties differ in its size and shape,

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so the accurate measurement of size and shape is critical for their biomedical applications. The optical properties of nanomaterials are determined based on the measurement of surface plasmon

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resonance (Kreibig
and Vollmer,
Nanostuctured
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1995). In case of
Review
metal
nanoparticles, the
maximum
absorbance, which
determines the
surface plasmon
resonance, lies in
the ultraviolet
region of the

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electromagnetic
Nanostructured
spectrum.
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~~Optical Property of
Nanomaterials - an
overview ...~~

The structural and
optical properties
of the nanoplates
were quantified
and the materials
were tested for

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antibacterial
Nanostructured
activity. X-ray
Materials A
diffraction revealed
Review
the formation of
the wurtzite phase
of ZnO and
scanning and
transmission
electron
microscopy
showed the
formation of

Where To
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Properties Of
randomly oriented
Nanostructured
ZnO nanoplates,
Materials A
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having a thickness
less than 80 nm
and ...

~~Hydrothermal
synthesis of
nanostructured
zinc oxide and ...
Nanostructured
materials may be~~

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defined as those materials whose structural elements - clusters, crystallites or molecules - have dimensions in the 1 to 100 nm range. The explosion in both academic and industrial interest in these materials

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over the past decade arises from the remarkable variations in fundamental electrical, optical and magnetic properties that occur as one progresses from an 'infinitely extended' solid to

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a particle of
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material consisting
Materials A
of a countable
Review
number of atoms.

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materials—
IOPscience
<P>This
book, based on
the lectures and
contributions of the

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NATO ASI on
"Functional
Properties of
Nanostructured
Materials", gives a
broad overview on
its topic, as it
combines basic
theoretical articles,
papers dealing
with experimental
techniques, and

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contributions on
advanced and up-
to-date
applications in
fields such as
microelectronics,
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Depending on the size of the smallest feature, the interaction of light with structured materials can be very different. This fundamental problem is treated by different theories. If first

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order theories are sufficient to describe the scattering from low roughness surfaces, second order or even higher order theories must be used for high roughness surfaces.

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of nanostructured
materials: a review~~

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Nanomaterials
describe, in
principle, materials
of which a single
unit small sized (in
at least one
dimension)

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Properties Of
between 1 and
Nanostuctured
100 nm (the usual
Materials A
definition of
Review
nanoscale)..

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research takes a
materials science-
based approach to
nanotechnology,
leveraging
advances in
materials

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metrology and
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synthesis which
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have been
Review
developed in
support of
microfabrication
research.

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A nanostructure is
a structure of

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intermediate size
between
microscopic and
molecular
structures.

Nanostructural
detail is
microstructure at
nanoscale. In
describing
nanostructures, it
is necessary to

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differentiate between the number of dimensions in the volume of an object which are on the nanoscale. Nanotextured surfaces have one dimension on the nanoscale, i.e., only the thickness

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Review

of the surface of
an object is
between 0.1 and
100 nm.

Nanotubes have
two dimensions on
the nanoscale, i.e.,
the

~~Nanostructure—
Wikipedia~~

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Optical properties
of nanostructured
materials: a review
allows the
development of a
large range of key
components for
optical systems
and it is now a 44
major field of
photonics. 45

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Refraction,
interferences,
diffraction,
scattering,
anisotropy,
absorption, light
emission, and 46
nonlinear effects
are all widely used
to develop
photonic
components.

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of nanostructured
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In the past twenty
years, a
combination of
these two methods
has developed to
design
nanostructured
materials with

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desired electronic and optical properties. At the same time, as the material sizes decrease, the surface plays a major role in their physical properties, and specific attention should be paid to

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take into account
these effects
and/or to passivate
the surface.

~~Materials | Special
Issue : Advances
in Electronic and~~

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Nanostructured
Materials (NsM)
are materials with

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a microstructure
Nanostructured
the characteristic
Materials A
length scale of
Review
which is on the
order of a few
(typically 1–10)
nanometers. NsM
may be in or far
away from ...

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This book focuses on functional aspects of nanostructured materials that have a high relevance to immediate applications, such as catalysis,

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energy harvesting,
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energy storage,
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optical properties
Review
and surface
functionalization
via self-assembly.
Additionally, there
are chapters
devoted to
massive
nanostructured
materials and

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treatment is defined by its durability, which is directly influenced by the oral environment. This study's purpose was to evaluate the artificial aging behavior of nanostructured, respective

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The optical

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properties of
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quite different from
the properties of
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composite materials thus constitutes a means for engineering new materials with desired optical properties. In this paper we review theories and models that have been devised for

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Generally, models used to study the optical properties of nanostructures are based on the electromagnetic theory, but when the dimension of a semiconductor nanocrystal is

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Abstract. We
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~~Optical Property of
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overview ...~~

The structural and
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of the nanoplates
were quantified
and the materials
were tested for

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material consisting
Materials: A
of a countable
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number of atoms.

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materials—
IOPscience
<P>This
book, based on
the lectures and
contributions of the

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"Functional Properties of Nanostructured Materials", gives a broad overview on its topic, as it combines basic theoretical articles, papers dealing with experimental techniques, and

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contributions on
advanced and up-
to-date
applications in
fields such as
microelectronics,
optoelectronics,
electrochemistry,
sensorics ...

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describe, in
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of which a single
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Nanomaterials
research takes a
materials science-
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synthesis which
Materials A
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developed in
support of
microfabrication
research.

~~Nanomaterials—
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A nanostructure is
a structure of

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intermediate size
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microscopic and
molecular
structures.

Nanostructural
detail is
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nanostructures, it
is necessary to

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differentiate
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Nanotextured
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an object is
between 0.1 and
100 nm.

Nanotubes have
two dimensions on
the nanoscale, i.e.,
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Optical properties
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allows the
development of a
large range of key
components for
optical systems
and it is now a 44
major field of
photonics. 45

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Refraction, interferences, diffraction, scattering, anisotropy, absorption, light emission, and 46 nonlinear effects are all widely used to develop photonic components.

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Optical properties
of nanostructured
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In the past twenty
years, a
combination of
these two methods
has developed to
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Materials (NsM)
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This book focuses on functional aspects of nanostructured materials that have a high relevance to immediate applications, such as catalysis,

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energy harvesting,
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energy storage,
Materials A
optical properties
Review
and surface
functionalization
via self-assembly.
Additionally, there
are chapters
devoted to
massive
nanostructured
materials and

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treatment is defined by its durability, which is directly influenced by the oral environment. This study's purpose was to evaluate the artificial aging behavior of nanostructured, respective

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