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This research area can be called as nano-photonics, nano-polaritonics and nano-plasmonics. This is a new research and has a p

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potential application in
making new types of
optoelectronic, photonic,
biotronic and plasmonics
devices such as switches in
the range of femto- and atto-
seconds. We will also
include in our study other

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types of heterostructures
which are fabricated by
embedded two or more optical
materials (Fig).

Nanophotonics, plasmonics
and polaritonics - - Western
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Nano-photonics and physics

Plasmonics in Japan Kazuo

Tanaka (Gifu University)

Yanagido 1-1, Gifu Japan

501-1193 Near-field optics,

Nano-optics, Plasmonics,

Nano-plasmonics,

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photonics. Area: 378,000km²
(Mountain area 80%)

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Experts in plasmonics,
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are creating new ways of
controlling light far below

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the diffraction limit for observing and manipulating nanostructures. Micro- and nano-electromechanical systems are being developed as multi-probe platforms for rapid nanofabrication and multi-mode characterization

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Graphene has been hailed as
a wonderful material in
electronics, and recently,
it is the rising star in

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material can affect its properties in many ways, and in particular in the way it interacts with light. By creating structures which are controlled on a length scale below the wavelength of the incident radiation,

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this radiation can be
manipulated.

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Nanophotonics is where
photonics merges with

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nanotechnology, and where spatial confinement dominates light propagation and light-matter interaction. Plasmonics in particular is related to the use of metal nanostructures

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with subwavelength dimension
to control light behaviour
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book brings together more
closely researchers working
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The Science of Plasmonics

Plasmonic nanoparticles - including gold, silver and platinum particles - are discrete metallic particles that have unique optical properties due to their size and shape, and are

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increasingly being
incorporated into commercial
products and technologies.

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The unique optical
properties of plasmonic
nanoparticles have been
observed for thousands of
years. Since ancient times
artists have used colloidal

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In *Optical Nanophysics*, nanoparticles of gold, silver, and copper to give color to pottery and stained glass. The beautiful range of colors results from adjustable optical properties in certain plasmonic nanoparticles.

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