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plasmonics devices such as switches in the range of femto- and atto-seconds. We will also include in our study other types of heterostructures which are fabricated by embedded two or more optical materials (Fig).

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Japan Kazuo Tanaka (Gifu University)
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Plasmonics, Nano-plasmonics,
Nanophotonics Nano-photonics. Area:
378,000km² (Mountain area 80%)

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Graphene has been hailed as a

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wonderful material in electronics, and recently, it is the rising star in photonics, as well. The wonderful optical properties of graphene afford multiple functions of signal emitting, transmitting, modulating, and detection to be realized in one material. In this paper, the latest progress in graphene

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The nanostructure of a 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, this radiation can be manipulated.

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related to the use of metal
nanostructures with subwavelength
dimension to control light behaviour on
the nanometric scale.

Plasmonic and Nanophotonics | IMM
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properties in certain plasmonic
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