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plasmonics. This is a new research and has a potential application in making new types of optoelectronic, photonic, biotronic and plasmonics devices such as switches in the range of femto- and atto-

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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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electronics, and recently,
it is the rising star in
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scale below the wavelength
of the incident radiation,
this radiation can be
manipulated.

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Nanophotonics is where photonics merges with nanoscience and nanotechnology, and where spatial confinement dominates light propagation and light-matter interaction. Plasmonics in

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

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including gold, silver and
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The unique optical
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