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Nanophotonics or nano-optics is the study of the behavior of light on the nanometer scale, and of the interaction of nanometer-scale objects with light. It is a branch of optics, optical engineering, electrical engineering, and nanotechnology. It often (but not exclusively) involves metallic components, which can transport and focus light via surface plasmon polaritons.

[Nanophotonics - Wikipedia](#)

Dear Colleagues, This Special Issue invites contributions on the topic of Functional Nanophotonic Materials and Structures. Exquisite control of light has been realized by functional optical materials and structures at ever-decreasing length and time scales and ever-increasing precision. At the nanometer scale, where researchers have developed the most sophisticated fabrication tools, much work has been devoted to probing emergent quantum phenomena in nanomaterials and to creating new ...

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Using an explainable AI (XAI) approach, we show that we can identify the importance of specific spatial regions of a nanophotonic structure for the presence or lack of an absorption peak. Our results highlight that ML strategies can be used for physics discovery, as well as design optimization, in optics and photonics.

[Fluicidating the Behavior of Nanophotonic Structures ...](#)

A photonic metamaterial, also known as an optical metamaterial, is a type of electromagnetic metamaterial, that interacts with light, covering terahertz, infrared or visible wavelengths. The materials employ a periodic, cellular structure. The subwavelength periodicity distinguishes photonic metamaterials from photonic band gap or photonic crystal structures. The cells are on a scale that is magnitudes larger than the atom, yet much smaller than the radiated wavelength, are on the order of nanom

[Photonic metamaterial - Wikipedia](#)

Electrospinning and electrospraying nanometre-scale structures. Nanoscale fibres and porous nanospheres by electrospinning and electrospraying. Silicon photonics. Overcoming some of the limitations of microelectronics by integrating photonics with silicon CMOS electronics; light emission from silicon. Resistive RAM (RRAM)

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Modified spontaneous emission in nanophotonic structures. Spontaneous emission is not an inherent property of a luminescent material; rather, it arises due to interaction between the material and its local electromagnetic environment. Changing the environment can thus alter the emission rate, with potential applications in sensing, integrated photonics and solar energy conversion.

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