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### **Photonics and Modern Electro-Magnetics Group: SCIENTIFIC**

In optics, the term soliton is used to refer to any optical field that does not change during propagation because of a delicate balance between nonlinear and linear effects in the medium. There are two main kinds of solitons: spatial solitons: the nonlinear effect can balance the diffraction. The electromagnetic field can change the refractive index of the medium while propagating, thus ...

### **Soliton (optics) - Wikipedia**

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Quantum optics (QO) is a field of research that uses semi-classical and quantum-mechanical physics to investigate phenomena involving light and its interactions with matter at submicroscopic levels. In other words it is quantum mechanics applied to photons or light.

### **Quantum optics - Wikipedia**

The first fiber grating has been discovered accidentally by Hill et al at the Canadian Research Center, Ottawa in 1978, Hill et al studied nonlinear effects in germanium-doped silica fibers. Argon visible light (488 nm) under prolonged exposure, fiber attenuation increased 4%. Fresnel reflection of standing wave pattern inside the fiber.

### **Fiber Bragg Gratings: fundamentals and applications**

3 | Page Welcome to Santa Fe, New Mexico The American Association for Crystal Growth and the conference organizing committees are pleased to extend a warm and friendly welcome to all participants in:

### **July 30 August 4 - Crystal Growth**

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### **MZA Associates Corporation - News - (MZA News)**

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Molybdenum disulfide (MoS<sub>2</sub>) thin-film transistors were fabricated with ion gel gate dielectrics. These thin-film transistors exhibited excellent band transport with a low threshold voltage (<1 V), high mobility (12.5 cm<sup>2</sup>/(V·s)) and a high on/off current ratio (10<sup>5</sup>). Furthermore, the MoS<sub>2</sub> transistors exhibited remarkably high mechanical flexibility, and no degradation in the electrical ...

### **Highly Flexible MoS<sub>2</sub> Thin-Film Transistors with Ion Gel**

Title Authors Published Abstract Publication Details; Easy Email Encryption with Easy Key Management John S. Koh, Steven M. Bellovin, Jason Nieh

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