

Energy Colloquium

Fiber Lasers: Recent Achievements and Applications

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ABSTRACT:

Last decade was a period of extra high speed of development of fiber lasers. The area of their characteristics in wavelength – from UV to mid-IR, in temporal domain – from CW to femtosecond pulses and in some cases non-limited output power. All this is possible because of unique possibilities of active fiber. In order to realize them it is necessary to solve a whole number of problems in the field of new materials, nonlinear crystals, nanomaterials, ceramics etc.

Applications of fiber lasers is also very wide – from scientific research to industrial process such as welding of ships and drilling of the earth.

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