

## 2016 - 1

### **Nonlinear photonics in all-dielectric metasurfaces**

*Fedyanin A.<sup>1</sup>, A.<sup>1</sup>, A.<sup>2</sup>, A.<sup>2</sup>*

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### **Materials Science and Condensed Matter Physics**

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## 2012 - 2

### **Investigation of nonlinear response of negative index metamaterials**

*Shorohov A.<sup>1</sup>, A.<sup>1</sup>, Helgert C.<sup>2</sup>, Chipouline A.<sup>2</sup>, Pertsch T.<sup>2</sup>, Fedyanin A.<sup>1</sup>*

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### **Materials Science and Condensed Matter Physics**

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### **Ultrafast polarization conversion with plasmonic crystals**

*Komarova V., V., Vabishchevich P., Dolgova T., Fedyanin A.*

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## 2010 - 4

### **Femtosecond cross-correlation spectroscopy of fano-resonances in plasmonic nanostructures**

*Vabishchevich P.<sup>1</sup>, Sychev F.<sup>1</sup>, Bessonov V.<sup>1</sup>, V.<sup>1</sup>, Dolgova T.<sup>1</sup>, Fedyanin A.<sup>1</sup>, Mishina E.<sup>2</sup>, Sigov Aleksander<sup>2</sup>*

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### **Femtosecond dynamics of surface plasmons-polaritons in planar plasmonic crystals in the vicinity of band-gap**

*Sychev F.<sup>1</sup>, Vabishchevich P.<sup>1</sup>, Bessonov V.<sup>1</sup>, V.<sup>1</sup>, Dolgova T.<sup>1</sup>, Fedyanin A.<sup>1</sup>, Mishina E.<sup>2</sup>, Sigov Aleksander<sup>3</sup>*

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### **Plasmon tunneling in thin gold nanogratings**

*Dobynde M., M., Dolgova T., Fedyanin A.*

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### **Polarization-sensitive optical metamaterials**

*A.<sup>1</sup>, Dobynde M.<sup>1</sup>, Vabishchevich P.<sup>1</sup>, Dolgova T.<sup>1</sup>, Fedyanin A.<sup>1</sup>, Ping Tsai Din<sup>2</sup>*

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