

## Moscalenco Sveatoslav

3. Articole în reviste din RM

3.1. Articole în reviste științifice din RM (perioada în care au avut categorie de clasificare + 2 numere până la aprobarea statutului de publicație științifică)

3.2. Articole în alte reviste din RM - 3

**Teze/Rezumate în culegeri - 18.**

### **2022 - 1**

#### **Electron structure of the two 2D exciton states**

*Moskalenko Sveatoslav, Zubac Ion, Guminiuc Anastasia*

Institute of Applied Physics

#### **Perspectivile și Problemele Integrării în Spațiul European al Cercetării și Educației**

Nr. 3(50) / 2014 / ISSN 0013-5739 / ISSNe 2345-1718

Disponibil online 25 October, 2022. Descarcări-3. Vizualizări-326

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### **2019 - 2**

#### **Superposition States of the Two-Dimensional Magnetoexcitons with Dirac Cone Dispersion Law and Quantum Interference Effects in Optical Transitions**

*Moskalenko Sveatoslav<sup>1</sup>, Podlesny Igor<sup>1</sup>, Zubac Ion<sup>1</sup>, Novikov Boris<sup>2</sup>*

<sup>1</sup> Institute of Applied Physics,

<sup>2</sup> Institute of Physics, St. Petersburg

#### **Nanotechnologies and Biomedical Engineering**

Nr. 1-2(141) / 2006 / ISSN 1957-2294

Disponibil online 1 September, 2020. Descarcări-2. Vizualizări-550

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#### **The similarity between two-dimensional magnetoexcitons and the excitons in transition metal dichalcogenides**

*Moskalenko Sveatoslav, Moskalenko Sveatoslav, Moskalenko Sveatoslav*

Institute of Applied Physics

#### **Amorphous and Nanostructured Chalcogenides**

Nr. 3 / 2011 / ISSN 1857-4130

Disponibil online 2 September, 2020. Descarcări-0. Vizualizări-497

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### **2018 - 1**

#### **Two-dimensional para-, ortho- and bi- magnetoexcitons interacting with quantum point vortices**

*Moskalenko Sveatoslav<sup>1</sup>, Moskalenko Vsevolod<sup>1</sup>, Khadzhi Peter<sup>1</sup>, Podlesny Igor<sup>1</sup>, Liberman Michael<sup>2</sup>, Zubac Ion<sup>1</sup>*

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<sup>2</sup> Nordic Institute for Theoretical Physics (NORDITA) KTH

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

Nr. 4(64) / 2008 / ISSN 1810-9136

Disponibil online 14 January, 2019. Descarcări-8. Vizualizări-779

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## 2017 - 2

### **Interactions and Bound States of the Two-Dimensional Magnetoexcitons**

*Moskalenko Sveatoslav<sup>1</sup>, Khadzhi Peter<sup>1</sup>, Dumanov Evgheni<sup>1</sup>, Podlesny Igor<sup>1</sup>, Liberman Michael<sup>2</sup>, Zubac Ion<sup>1</sup>*

<sup>1</sup> Institute of Applied Physics, Academy of Sciences of Moldova,

<sup>2</sup> Stockholms Universitet

### **Multidisciplinarity in Modern Science for the Benefit of Society**

Nr. 3(303) / 2007 / ISSN 1857-064X

Disponibil online 15 March, 2018. Descarcări-2. Vizualizări-1036

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### **Metastable bound states of the two-dimensional quasi-bimagnetoexcitons**

*Moskalenko Sveatoslav<sup>1</sup>, Khadzhi Peter<sup>1</sup>, Dumanov Evgheni<sup>1</sup>, Podlesny Igor<sup>1</sup>, Liberman Michael<sup>2</sup>, Zubac Ion<sup>1</sup>*

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<sup>2</sup> Stockholms Universitet

### **Microelectronics and Computer Science**

// ISSN -

Disponibil online 31 October, 2017. Descarcări-3. Vizualizări-929

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## 2016 - 2

### **Dispersion laws of some two-dimensional cavity magnetoexciton-polariton branches**

*Podlesny Igor, Moskalenko Sveatoslav, Dumanov Evgheni, Rusu Spiridon*

Institute of Applied Physics, Academy of Sciences of Moldova

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

Nr. 3(4) / 2005 / ISSN 1810-648X / ISSNe 2537-6365

Disponibil online 19 July, 2019. Descarcări-1. Vizualizări-571

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### **Interaction of the two-dimensional magnetoexcitons with wave vector $K=0$ under the influence of the Rashba spin-orbit coupling and Zeeman splitting effects**

*Dumanov Evgheni, Moskalenko Sveatoslav, Podlesny Igor, Lelyakov Igor*

Institute of Applied Physics, Academy of Sciences of Moldova

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

Nr. 3(4) / 2005 / ISSN 1810-648X / ISSNe 2537-6365

Disponibil online 19 July, 2019. Descarcări-0. Vizualizări-721

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## 2015 - 2

### **Exciton-polariton laser**

*Moskalenko Sveatoslav<sup>1</sup>, Tiginyanu Ion<sup>2</sup>*

<sup>1</sup> Institute of Applied Physics, Academy of Sciences of Moldova,

<sup>2</sup> Institute of the Electronic Engineering and Nanotechnologies "D. Ghitu" of the Academy of Sciences of Moldova

### **Nanotechnologies and Biomedical Engineering**

Nr. 1(307) / 2009 / ISSN 1857-064X

Disponibil online 20 March, 2018. Descarcări-7. Vizualizări-729

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**Two-dimensional cavity polaritons under the influence of the Landau quantization, Rashba spin-orbit coupling and Zeeman splitting**

*Moskalenko Svetoslav<sup>1</sup>, Podlesny Igor<sup>1</sup>, Dumanov Evgheni<sup>1</sup>, Liberman Michael<sup>2</sup>, Lelyakov Igor<sup>1</sup>*

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<sup>2</sup> Institute of Technology and Stockholm University

**Nanotechnologies and Biomedical Engineering**

Nr. 1(307) / 2009 / ISSN 1857-064X

Disponibil online 9 April, 2019. Descarcări-0. Vizualizări-781

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**2014 - 3**

**Landau quantization of two-dimensional heavy-holes accompanied by Rashba spin-orbit coupling and Zeeman splitting**

*Podlesny Igor<sup>1</sup>, Moskalenko Svetoslav<sup>1</sup>, Dumanov Evgheni<sup>1</sup>, Liberman Michael<sup>2,3</sup>, Leleacov A.<sup>1</sup>*

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<sup>3</sup> Moscow Institute of Physics and Technology

**Materials Science and Condensed Matter Physics**

Nr. 3(21) / 2005 / ISSN 1810-9551

Disponibil online 25 February, 2019. Descarcări-0. Vizualizări-750

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 **The influence of the Rashba spin-orbit coupling on two-dimensional magnetoexciton-polaritons in microcavity**

*Dumanov Evgheni<sup>1</sup>, Moskalenko Svetoslav<sup>1</sup>, Podlesny Igor<sup>1</sup>, Liberman Michael<sup>2,3</sup>, Rusu Spiridon<sup>1</sup>, Bajireanu Valentina<sup>1</sup>*

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**Materials Science and Condensed Matter Physics**

Nr. 3(21) / 2005 / ISSN 1810-9551

Disponibil online 25 February, 2019. Descarcări-3. Vizualizări-711

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**Two-dimensional cavity polaritons under the influence of a strong perpendicular magnetic field**

*Moskalenko Svetoslav<sup>1</sup>, Podlesny Igor<sup>1</sup>, Dumanov Evgheni<sup>1</sup>, Liberman Michael<sup>2,3</sup>, Rusu Spiridon<sup>1</sup>, Bajireanu Valentina<sup>1</sup>*

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**Materials Science and Condensed Matter Physics**

Nr. 3(21) / 2005 / ISSN 1810-9551

Disponibil online 22 February, 2019. Descarcări-0. Vizualizări-873

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## 2013 - 3

### **Landau quantization of two-dimensional heavy holes and acceptor-bound trions Auger-recombination lines**

*Podlesny Igor<sup>1</sup>, Moskalenko Svetoslav<sup>1</sup>, Kiselyov Anton<sup>2</sup>, Shutova Liudmila<sup>1</sup>, Lelyakov Igor<sup>1</sup>*

<sup>1</sup> Institute of Applied Physics, Academy of Sciences of Moldova,

<sup>2</sup> State University of Civil Aviation

### **Nanotechnologies and Biomedical Engineering**

Nr. 1(29) / 2005 / ISSN 1810-6455

Disponibil online 18 June, 2019. Descarcări-0. Vizualizări-662

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### **True, quasi and unstable Nambu-Goldstone modes of the 2D Bose-Einstein condensed magnetoexcitons with different wave vectors**

*Dumanov Evgheni<sup>1</sup>, Moskalenko Svetoslav<sup>1</sup>, Liberman Michael<sup>2,3</sup>, Snoke David W.<sup>4</sup>, Rusu Spiridon<sup>1</sup>, Cerbu Florin<sup>1</sup>*

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<sup>2</sup> Uppsala University,

<sup>3</sup> Moscow Institute of Physics and Technology,

<sup>4</sup> University of Pittsburgh

### **Nanotechnologies and Biomedical Engineering**

Nr. 1(29) / 2005 / ISSN 1810-6455

Disponibil online 19 June, 2019. Descarcări-0. Vizualizări-615

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### **Two-dimensional magnetoexciton-polariton in semiconductor microcavity**

*Moskalenko Svetoslav<sup>1</sup>, Podlesny Igor<sup>1</sup>, Liberman Michael<sup>2</sup>, Novikov Boris<sup>3</sup>, Kiselyova E.<sup>4</sup>*

<sup>1</sup> Institute of Applied Physics, Academy of Sciences of Moldova,

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### **Nanotechnologies and Biomedical Engineering**

Nr. 1(29) / 2005 / ISSN 1810-6455

Disponibil online 17 June, 2019. Descarcări-0. Vizualizări-662

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## 2012 - 2

### **CMT 1 P Landau quantization of two-dimensional heavy holes and the energy spectrum of magnetoexcitons**

*Moskalenko Svetoslav<sup>1</sup>, Podlesny Igor<sup>1</sup>, Kiselyov Anton<sup>2</sup>, Buzut Aculina<sup>1</sup>*

<sup>1</sup> Institute of Applied Physics,

<sup>2</sup> State University of Civil Aviation

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

Nr. 2(17) / 2006 / ISSN 1810-1852 / ISSNe 1810-1879

Disponibil online 6 March, 2020. Descarcări-0. Vizualizări-578

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### **Collective elementary excitations of two-dimensional magnetoexcitons interacting with plasmons under the influence of excited Landau levels**

*Moskalenko Svetoslav<sup>1</sup>, Liberman Michael<sup>2</sup>, Snoke David W.<sup>3</sup>, Dumanov Evgheni<sup>1</sup>, Rusu Spiridon<sup>1</sup>, Cerbu Florin<sup>1</sup>*

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<sup>2</sup> Uppsala University,

<sup>3</sup> University of Pittsburgh

## Materials Science and Condensed Matter Physics

Nr. 2(17) / 2006 / ISSN 1810-1852 / ISSN<sub>e</sub> 1810-1879

Disponibil online 5 March, 2020. Descarcări-1. Vizualizări-703

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### 2011 - 2

#### Collective elementary excitations of 2D magnetoexcitons taking into account excited Landau levels

*Moskalenko Svetoslav<sup>1</sup>, Liberman Michael<sup>2</sup>, Dumanov Evgheni<sup>1</sup>, Rusu Spiridon<sup>1</sup>, Cerbu Florin<sup>1</sup>*

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#### Nanotechnologies and Biomedical Engineering

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Disponibil online 18 July, 2019. Descarcări-0. Vizualizări-619

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#### Exchange electron-hole interaction of two-dimensional magnetoexcitons under the influence of the Rashba spin-orbit coupling

*Moskalenko Svetoslav<sup>1</sup>, Podlesny Igor<sup>1</sup>, Novikov Boris<sup>2,3</sup>, Kiselyova E.<sup>4</sup>, Lelyakov Igor<sup>1</sup>, Shutova Liudmila<sup>1,4</sup>*

<sup>1</sup> Institute of Applied Physics, Academy of Sciences of Moldova,

<sup>2</sup> Institute of Physics, St. Petersburg,

<sup>3</sup> Saint Petersburg State University,

<sup>4</sup> Moldova State University

#### Nanotechnologies and Biomedical Engineering

Nr. 2-3(37) / 2006 / ISSN 1810-6455

Disponibil online 18 July, 2019. Descarcări-0. Vizualizări-661

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### 2010 - 2

#### CMT 5 P The elementary excitations of 2D magnetoexcitons in the Bec state with wave vector $\mathbf{k}=\mathbf{0}$

*Moskalenko Svetoslav<sup>1</sup>, Liberman Michael<sup>2</sup>, Dumanov Evgheni<sup>1</sup>, Rusu Spiridon<sup>1</sup>, Sanduleac Ionel<sup>1</sup>*

<sup>1</sup> Institute of Applied Physics,

<sup>2</sup> Uppsala University

#### Materials Science and Condensed Matter Physics

Nr. 16(29) / 2012 / ISSN 1857-0054

Disponibil online 14 April, 2021. Descarcări-0. Vizualizări-340

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#### Two-dimensional magnetoexcitons under the influence of the Rashba spinorbit coupling

*Hakioglu Tugrul<sup>1</sup>, Liberman Michael<sup>2</sup>, Moskalenko Svetoslav<sup>3</sup>, Podlesny Igor<sup>3</sup>*

<sup>1</sup> Bilkent University,

<sup>2</sup> Uppsala University,

<sup>3</sup> Institute of Applied Physics

#### Materials Science and Condensed Matter Physics

Nr. 16(29) / 2012 / ISSN 1857-0054

Disponibil online 14 April, 2021. Descarcări-0. Vizualizări-338

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**2006 - 1**

**Combined optical quantum transitions with the participation of twodimensional magnetoexcitons**

*Moskalenko Sveatoslav, Podlesny Igor, Lelyakov Igor*

Institute of Applied Physics

**Materials Science and Condensed Matter Physics**

Nr. 1(53) / 2009 / ISSN 1810-6455

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