

## Tronciu Vasile

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)

3.1.2. Articole în reviste de cat. B+ - 4

**Teze/Rezumate în culegeri - 19.**

### **2023 - 1**

#### **New Characteristics of Blue Self-pulsating InGaN Lasers**

*Grigoriev Eugeniu, Rusu Spiridon, Tronciu Vasile*

T.G. Shevchenko State University of Pridnestrovie, Tiraspol

#### **IFMBE Proceedings Nanotechnologies and Biomedical Engineering**

Nr. 3(82) / 2016 / ISSN 1024-7696 / ISSNe 2587-4322

Disponibil online 11 October, 2023. Descarcări-2. Vizualizări-237

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### **2022 - 1**

#### **Principiul nonlocalismului cuantic și inseparabilitatea cuantică a particulelor**

*Chistol Vitalie, Tronciu Vasile*

Universitatea Tehnică a Moldovei

#### **Abordări inter/transdisciplinare în predarea științelor reale, (concept STEAM).**

Nr. 1(101) / 2015 / ISSN 1857-2022

Disponibil online 24 November, 2022. Descarcări-3. Vizualizări-329

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### **2021 - 4**

#### **Generation of Pulses with Excitable DFB Laser with Dispersive reflector**

*Andronic Silvia, Grigoriev Eugeniu, Tronciu Vasile*

Technical University of Moldova

#### **Electronics, Communications and Computing IC|ECCO-2021**

Nr. 4 / 2014 / ISSN 1811-5470

Disponibil online 27 April, 2022. Descarcări-2. Vizualizări-343

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#### **Influence of Double Feedback on Stationary States of Quantum Dots Lasers**

*Grigoriev Eugeniu, Rusu Spiridon, Tronciu Vasile*

Technical University of Moldova

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

Nr. 9(1) / 2012 / ISSN 1857-4114 / ISSNe 2537-6438

Disponibil online 16 November, 2021. Descarcări-6. Vizualizări-454

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#### **Investigation of Dynamical Properties of a Laser with Incorporated DBR Section Under the Influence of External Optical Feedback**

*Grigoriev Eugeniu, Tronciu Vasile*

Technical University of Moldova

## **Nanotechnologies and Biomedical Engineering**

Nr. 9(1) / 2012 / ISSN 1857-4114 / ISSNe 2537-6438

Disponibil online 18 November, 2021. Descarcări-6. Vizualizări-356

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### **Theoretical aspects regarding the influence of milimetric waves on living matter**

*Gubceac Natalia, Ciobanu Nelly, Tronciu Vasile*

"Nicolae Testemițanu" State University of Medicine and Pharmacy

### **Cercetarea în biomedicină și sănătate: calitate, excelență și performanță**

Nr. 5(2) / 2010 / ISSN 1857-4114 / ISSNe 2537-6438

Disponibil online 6 December, 2021. Descarcări-2. Vizualizări-418

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## **2019 - 2**

### **Investigation of picosecond-pulse generation by two-section blue-violet semiconductor lasers**

*Tronciu Vasile<sup>1</sup>, Wenzel Hans<sup>2,3</sup>, Knigge Andrea<sup>2,3</sup>*

<sup>1</sup> Technical University of Moldova,

<sup>2</sup> Ferdinand-Braun-Institut,

<sup>3</sup> Leibniz-Institut für Höchstfrequenztechnik, Berlin

### **Electronics, Communications and Computing**

Nr. 3(49) / 2005 / ISSN 1024-7696 / ISSNe 2587-4322

Disponibil online 8 November, 2019. Descarcări-3. Vizualizări-688

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### **Theoretical studies of the dynamics of two section blue-violet semiconductor lasers**

*Tronciu Vasile*

Technical University of Moldova

### **NANO- 2019: Limits of Nanoscience and Nanotechnologies**

Nr. 2(10) / 2009 / ISSN 1857-0070

Disponibil online 23 January, 2020. Descarcări-2. Vizualizări-592

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## **2018 - 2**

### **Complex dynamics of quantum dots lasers under the influence of external multiple optical feedback**

*Oloinic Tatiana<sup>1</sup>, Rusu Spiridon<sup>1,2</sup>, Tronciu Vasile<sup>1</sup>*

<sup>1</sup> Technical University of Moldova,

<sup>2</sup> Institute of Applied Physics

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

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

Disponibil online 16 January, 2019. Descarcări-8. Vizualizări-628

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### **Semiconductor ring lasers tuned by external optical feedback: theory and experiment**

*Tronciu Vasile<sup>1</sup>, Radziunas Mindaugas<sup>2</sup>, Khoder Mulham<sup>3</sup>, Danckaert Jan<sup>3</sup>, Verschaffelt Guy<sup>3</sup>*

<sup>1</sup> Technical University of Moldova,

<sup>2</sup> Weierstrass Institute for Applied Analysis and Stochastics, Berlin,

<sup>3</sup> Vrije Universiteit Brussel

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

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

Disponibil online 15 January, 2019. Descarcări-1. Vizualizări-726

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### **2017 - 4**

#### **Chaos Communication with Quantum Dots Lasers Under the Influence of Multiple Feedback**

*Oloinic Tatiana, Rusu Spiridon, Tronciu Vasile*

Technical University of Moldova

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

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

Disponibil online 16 March, 2018. Descarcări-12. Vizualizări-787

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#### **Influenta radiatiei electromagnetice asupra proceselor biomoleculare**

*Ciobanu Nellu<sup>1</sup>, Munteanu-Gubceac Natalia<sup>1,2</sup>, Grabovschi Ion<sup>1</sup>, Tronciu Vasile<sup>3</sup>*

<sup>1</sup> Universitatea de Stat de Medicină și Farmacie „Nicolae Testemițanu”,

<sup>2</sup> Universitatea „Vasile Alecsandri”, Bacău,

<sup>3</sup> Universitatea Tehnică a Moldovei

#### **Microelectronics and Computer Science**

// ISSN -

Disponibil online 30 October, 2017. Descarcări-14. Vizualizări-789

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#### **Nonlinear Dynamics of Quantum Dots Lasers with External Optical Feedback**

*Tronciu Vasile*

Technical University of Moldova

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

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

Disponibil online 16 March, 2018. Descarcări-5. Vizualizări-697

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#### **Sincronizarea laserelor semiconductoare cu mediu activ puncte cuantice**

*Oloinic Tatiana, Pîrțac Constantin, Rusu Spiridon, Tronciu Vasile*

Universitatea Tehnică a Moldovei

#### **Microelectronics and Computer Science**

// ISSN -

Disponibil online 23 October, 2017. Descarcări-12. Vizualizări-781

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### **2016 - 5**

#### **Învățarea prin cercetare a legilor fizice**

*Rusu Alexandru, Pîrțac Constantin, Rusu Spiridon, Gutium Serghei, Tronciu Vasile, Popovici Ana, Secrieru Vitalie, Munteanu Eugeniu*

Universitatea Tehnică a Moldovei

#### **Fizica și tehnologiile moderne**

Nr. 4(100) / 2014 / ISSN 1857-2022

Disponibil online 16 May, 2022. Descarcări-9. Vizualizări-317

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**Analyzing limits of linewidth reduction of a DFB laser by an external resonator**

*Tronciu Vasile<sup>1</sup>, Wenzel Hans<sup>2</sup>, Wunsche Hans Jurgen<sup>2</sup>*

<sup>1</sup> Technical University of Moldova,

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**Materials Science and Condensed Matter Physics**

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

Disponibil online 18 July, 2019. Descarcări-1. Vizualizări-615

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**Chaos based communications with quantum dots lasers under the influence of multiple feedbacks**

*Oloinic Tatiana, Rusu Spiridon, Tronciu Vasile*

Technical University of Moldova

**Materials Science and Condensed Matter Physics**

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

Disponibil online 31 July, 2019. Descarcări-5. Vizualizări-614

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**Comunicarea optică bazată pe haos cu ajutorul laserelor cu puncte cuantice**

*Oloinic Tatiana, Rusu Spiridon, Tronciu Vasile*

Universitatea Tehnică a Moldovei

**Tendințe contemporane ale dezvoltării științei: viziuni ale tinerilor cercetători**

Nr. 1(65) / 2009 / ISSN 1810-9136

Disponibil online 30 January, 2019. Descarcări-4. Vizualizări-647

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**Comunicarea optica bazata pe haos cu ajutorul laserelor cu puncte cuantice și feedback optic**

*Oloinic Tatiana, Rusu Spiridon, Grigoriev Eugeniu, Tronciu Vasile*

Universitatea Tehnică a Moldovei

**Fizica și tehnologiile moderne**

Nr. 4(100) / 2014 / ISSN 1857-2022

Disponibil online 15 May, 2022. Descarcări-5. Vizualizări-461

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**2015 - 8**

**Anticipated synchronization of DFB Lasers with passive dispersive section**

*Ciobanu Nellu<sup>1</sup>, Tronciu Vasile<sup>2</sup>*

<sup>1</sup> Universitatea de Stat de Medicină și Farmacie „Nicolae Testemițanu”,

<sup>2</sup> Universitatea Tehnică a Moldovei

**Telecommunications, Electronics and Informatics**

Nr. 4(4) / 2005 / ISSN 1857-0011

Disponibil online 17 May, 2018. Descarcări-3. Vizualizări-699

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**Anticipated synchronization of passive dispersive reflector semiconductor laser**

*Ciobanu Natalia<sup>1</sup>, Rusu Spiridon<sup>2</sup>, Tronciu Vasile<sup>2</sup>*

<sup>1</sup> “Nicolae Testemițanu” State University of Medicine and Pharmacy,

<sup>2</sup> Technical University of Moldova

## **Nanotechnologies and Biomedical Engineering**

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

Disponibil online 10 April, 2019. Descarcări-0. Vizualizări-609

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### **Chaos based communication of multi section semiconductor lasers with an air gap**

*Antohei Ion, Sanduța Stanislav, Rusu Spiridon, Tronciu Vasile*

Technical University of Moldova

## **Telecommunications, Electronics and Informatics**

Nr. 4(4) / 2005 / ISSN 1857-0011

Disponibil online 17 May, 2018. Descarcări-18. Vizualizări-735

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### **Dynamics of quantum dots lasers under the influence of double cavity external optical feedback**

*Sanduța Ana, Rusu Spiridon, Tronciu Vasile*

Technical University of Moldova

## **Telecommunications, Electronics and Informatics**

Nr. 4(4) / 2005 / ISSN 1857-0011

Disponibil online 17 May, 2018. Descarcări-5. Vizualizări-661

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### **Stationary states of external cavity diode laser**

*Tronciu Vasile<sup>1</sup>, Radziunas Mindaugas<sup>2</sup>*

<sup>1</sup> Technical University of Moldova,

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## **Telecommunications, Electronics and Informatics**

Nr. 4(4) / 2005 / ISSN 1857-0011

Disponibil online 17 May, 2018. Descarcări-3. Vizualizări-571

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### **The influence of external cavity optical feedback on the dynamics of quantum dots lasers**

*Sanduța Ana, Rusu Spiridon, Tronciu Vasile*

Technical University of Moldova

## **Nanotechnologies and Biomedical Engineering**

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

Disponibil online 10 April, 2019. Descarcări-0. Vizualizări-539

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### **Theoretical study of external cavity diode laser using simulation of modes**

*Dumanov Evgheni<sup>1,2</sup>, Tronciu Vasile<sup>1</sup>, Wenzel Helmut<sup>3</sup>*

<sup>1</sup> Technical University of Moldova,

<sup>2</sup> Institute of Applied Physics, Academy of Sciences of Moldova,

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## **Telecommunications, Electronics and Informatics**

Nr. 4(4) / 2005 / ISSN 1857-0011

Disponibil online 17 May, 2018. Descarcări-7. Vizualizări-658

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### **Theoretical treatment of millimeter and terahertz radiation action on biological media**

*Ciobanu Natalia<sup>1,2</sup>, Vovc Victor<sup>1</sup>, Saulea Aurel<sup>1</sup>, Tronciu Vasile<sup>3</sup>*

<sup>1</sup> "Nicolae Testemițanu" State University of Medicine and Pharmacy,

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## **Nanotechnologies and Biomedical Engineering**

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

Disponibil online 12 April, 2019. Descarcări-1. Vizualizări-717

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## **2014 - 3**

### **Dynamics of quantum dots lasers structures with optical feedback**

*Sanduța Ana, Rusu Spiridon, Tronciu Vasile*

Technical University of Moldova

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

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

Disponibil online 25 February, 2019. Descarcări-1. Vizualizări-552

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### **Simulations and experiments of external cavity diode lasers**

*Tronciu Vasile<sup>1</sup>, Radziunas Mindaugas<sup>2</sup>, Luvsandamdin Erdenetsetseg<sup>3</sup>, Kiirbis C.<sup>3</sup>, Wicht Andreas<sup>3</sup>, Wenzel H.<sup>3</sup>*

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

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

Disponibil online 24 February, 2019. Descarcări-1. Vizualizări-757

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### **Theoretical study of the modal behaviour of an external cavity diode laser**

*Dumanov Evgheni<sup>1,2</sup>, Tronciu Vasile<sup>2</sup>, Wenzel Helmut<sup>3</sup>*

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

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

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

Disponibil online 16 March, 2019. Descarcări-1. Vizualizări-612

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## **2013 - 1**

### **Nonlinear cooperative phenomena caused by Fröhlich phonons in biological objects**

*Ciobanu Nellu<sup>1</sup>, Rotaru Anatol<sup>2</sup>, Tronciu Vasile<sup>3</sup>*

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## **Nanotechnologies and Biomedical Engineering**

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

Disponibil online 20 June, 2019. Descarcări-0. Vizualizări-801

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**2012 - 2**

**CMT 2 P Quantum treatment of optical self - organization phenomena of excitons and biexcitons in ring cavity**

*Tronciu Vasile<sup>1</sup>, Rotaru Anatol<sup>2</sup>*

<sup>1</sup> Technical University of Moldova,

<sup>2</sup> Moldova State University

**Materials Science and Condensed Matter Physics**

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

Disponibil online 6 March, 2020. Descarcări-0. Vizualizări-576

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**CMT 3 P Theory of anticipated synchronization of DFB laser with passive dispersive reflector**

*Tronciu Vasile<sup>1</sup>, Rusu Spiridon<sup>1</sup>, Rotaru Anatol<sup>2</sup>*

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**Materials Science and Condensed Matter Physics**

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

Disponibil online 6 March, 2020. Descarcări-1. Vizualizări-495

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**2009 - 1**

**Dynamics and stability improvement of DFB tapered master-oscillator poweramplifiers**

*Tronciu Vasile<sup>1</sup>, Lichtner M<sup>2</sup>, Radziunas Mindaugas<sup>2</sup>, Bandelow Uwe<sup>2</sup>, Wenzel Hans<sup>3</sup>*

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