

## Gorbaciov Mihail

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)

3.1.3. Articole în reviste de cat. B - 1

Teze/Rezumate în culegeri - [9](#).

### 2024 - 2

#### **The most stability of [CRN(OCH<sub>3</sub>)<sub>2</sub>N((CH<sub>3</sub>)<sub>3</sub>COO)N] with N=10: quantum-chemical evidence**

*Gorbachev Mikhail, Dobrova Bella, Pelyakh M., Dimoglo Anatholy*

Institute of Chemistry of the Academy of Sciences of Moldova

**Чугаевская конференция по координационной химии**

Nr. 1 / 2008 / ISSN 1857-0046

Disponibil online 28 May, 2020. Descarcări-0. Vizualizări-716

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#### **Theoretical study of the relative stability of [CRNFN((CH<sub>3</sub>)<sub>3</sub>COO)<sub>2</sub>N]**

*Dobrova Bella, Gorbachev Mikhail, Dimoglo Anatholy*

Institute of Chemistry of the Academy of Sciences of Moldova

**Чугаевская конференция по координационной химии**

Nr. 1 / 2008 / ISSN 1857-0046

Disponibil online 27 May, 2020. Descarcări-0. Vizualizări-749

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### 2023 - 4

#### **Comparative DFT study of interaction between dimethyldihydroxyfumarate and its precursor acid with the stabile radical DPPH\***

*Gorbachev Mikhail, Gorinchoy Natalia, Arsene Ion*

Institute of Chemistry

**Physical Methods in Coordination and Supramolecular Chemistry**

Nr. 1 / 2009 / ISSN 1857-0046

Disponibil online 27 May, 2020. Descarcări-0. Vizualizări-653

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#### **Surface tension of organic liquids defined by means of DFT calculations**

*Gorbachev Mikhail, Arsene Ion, Budei Olga, Gorinchoy Natalia*

Institute of Chemistry

**Physical Methods in Coordination and Supramolecular Chemistry**

Nr. 1 / 2009 / ISSN 1857-0046

Disponibil online 26 May, 2020. Descarcări-2. Vizualizări-695

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#### **Accelerated decay of pesticides: breaking of the C-O bond in vinclozolin by its adsorption on TiO<sub>2</sub> surface**

*Gorbachev Mikhail, Gorinchoy Natalia, Osipov Ivan*

Institute of Chemistry of the Academy of Sciences of Moldova

**The International Conference dedicated to the 55th anniversary from the foundation of the Institute of Chemistry of the Academy of Sciences of Moldova**

Nr. 3(54) / 2010 / ISSN 1561-4042 / ISSN<sub>e</sub> 2587-4330

Disponibil online 22 January, 2019. Descarcări-1. Vizualizări-871

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**DFT study of the host-guest complex (HGC) between  $\gamma$  - cyclodextrin and cis-oleic acid**

*Gorbachev Mikhail, Gorinchoy Natalia, Arsene Ion, Geru Ion*

Institute of Chemistry

**Physical Methods in Coordination and Supramolecular Chemistry**

Nr. 1(29) / 2011 / ISSN 1857-0011

Disponibil online 21 April, 2020. Descarcări-5. Vizualizări-772

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**2022 - 7**

**Photoinduced transformation of procymidone by its adsorption on TiO<sub>2</sub> surface**

*Gorbachev Mikhail, Gorinchoy Natalia, Osipov Ivan*

Institute of Chemistry

**Physical Methods in Coordination and Supramolecular Chemistry**

Nr. 1(29) / 2011 / ISSN 1857-0011

Disponibil online 21 April, 2020. Descarcări-0. Vizualizări-631

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**Surface tension of nonplanar hyperconjugated organic liquids: DFT study**

*Gorbachev Mikhail, Arsene Ion, Gorinchoy Natalia*

Institute of Chemistry

**Physical Methods in Coordination and Supramolecular Chemistry**

Nr. 1(29) / 2011 / ISSN 1857-0011

Disponibil online 21 April, 2020. Descarcări-0. Vizualizări-716

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**Kinetic study of antioxidant activity of vitamin E and its derivative**

*Yaltychenko Olga<sup>1</sup>, Kanarovsky Evghenii<sup>1</sup>, Gorinchoy Natalia<sup>2</sup>, Gorbachev Mikhail<sup>2</sup>*

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

<sup>2</sup> Institute of Chemistry of the Academy of Sciences of Moldova

**Materials Science and Condensed Matter Physics**

Nr. 3(4) / 2005 / ISSN 1810-648X / ISSN<sub>e</sub> 2537-6365

Disponibil online 1 August, 2019. Descarcări-0. Vizualizări-969

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**Stable macromolecular complex "CdSe quantum dot+oleic acid molecule+ $\gamma$ -cyclodextrin": NMR and quantum-chemical studies**

*Geru Ion, Barba Alic, Gorbachev Mikhail, Gorinchoy Natalia, Arsene Ion*

Institute of Chemistry of the Academy of Sciences of Moldova

**Materials Science and Condensed Matter Physics**

Nr. 3(4) / 2005 / ISSN 1810-648X / ISSN<sub>e</sub> 2537-6365

Disponibil online 31 July, 2019. Descarcări-2. Vizualizări-974

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**Acceleration of some dicarboximide groupe fungicides decay by titanium dioxide additive: experimental evidence and quantum-chemical background of common mechanism**

*Osipov Ivan<sup>1</sup>, Da Silva José P.<sup>2</sup>, Gorbachev Mikhail<sup>1</sup>, Gorinchoy Natalia<sup>1</sup>*

<sup>1</sup> Institute of Chemistry of the Academy of Sciences of Moldova,

<sup>2</sup> University of Algarve

**Ecological and environmental chemistry - 2017**

Nr. 6(30) / 2006 / ISSN 1810-9551

Disponibil online 15 March, 2019. Descarcări-1. Vizualizări-914

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**Sunlight induced decay of iprodione on titanium dioxide surface: LC-MS chromatography and DFT evidence**

*Gorbachev Mikhail, Gorinchoy Natalia, Osipov Ivan*

Institute of Chemistry of the Academy of Sciences of Moldova

**Ecological and environmental chemistry - 2017**

Nr. 6(30) / 2006 / ISSN 1810-9551

Disponibil online 15 March, 2019. Descarcări-3. Vizualizări-919

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**DFT evidence of proton-induced decay of the fungicide, iprodione, on TiO<sub>2</sub> surface under solar irradiation**

*Gorbachev Mikhail, Gorinchoy Natalia, Osipov Ivan*

Institute of Chemistry

**Achievements and perspectives of modern chemistry**

Nr. 5(0) / 2007 / ISSN 1857-2103 / ISSN<sub>e</sub> 2345-1025

Disponibil online 5 November, 2019. Descarcări-8. Vizualizări-839

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**2021 - 2**

**DFT study of photo-transformation of CYPRODINIL caused by change of its tautomeric form under sunlight action**

*Gorbachev Mikhail, Gorinchoy Natalia*

Institute of Chemistry

**Achievements and perspectives of modern chemistry**

Nr. 5(0) / 2007 / ISSN 1857-2103 / ISSN<sub>e</sub> 2345-1025

Disponibil online 5 November, 2019. Descarcări-3. Vizualizări-705

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**Influence of nano-particles of TiO<sub>2</sub> on relative antioxidant activities of fumaric and dihydroxyfumaric acids: DFT investigation of their reactions with DPPH**

*Gorbachev Mikhail, Arsene Ion, Gorinchoy Natalia*

Institute of Chemistry

**Achievements and perspectives of modern chemistry**

Nr. 5(0) / 2007 / ISSN 1857-2103 / ISSN<sub>e</sub> 2345-1025

Disponibil online 5 November, 2019. Descarcări-6. Vizualizări-914

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**2019 - 4**

**Ionic liquids: simple "structure-critical temperature" relationship**

*Gorbachev Mikhail, Gorinchoy Natalia*

Institute of Chemistry

## Achievements and perspectives of modern chemistry

Nr. 5(0) / 2007 / ISSN 1857-2103 / ISSN<sub>e</sub> 2345-1025

Disponibil online 5 November, 2019. Descarcări-3. Vizualizări-823

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### Identificarea teoretică a mecanismului la prima etapă a procesului de inhibare a radicalului liber dpph• sub acțiunea acidului dihidroxifumaric

Arsene Ion<sup>1,2</sup>, Gorincioi Natalia<sup>2</sup>, Gorbaciov Mihail<sup>2</sup>

<sup>1</sup> Universitatea de Stat din Tiraspol,

<sup>2</sup> Institutul de Chimie

### Instruire prin cercetare pentru o societate prosperă

Vol. 18, Nr. 2(24) / 2010 / ISSN 1561-2848

Disponibil online 20 April, 2021. Descarcări-9. Vizualizări-808

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### Studiul DFT al particularităților structurale și activității antioxidante a unui șir de acizi hidroxicinamici

Bălan Iolanta, Gorincioi Natalia, Gorbaciov Mihail

Institutul de Chimie

### Instruire prin cercetare pentru o societate prosperă

Vol. 18, Nr. 2(24) / 2010 / ISSN 1561-2848

Disponibil online 20 April, 2021. Descarcări-10. Vizualizări-838

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### Confirmarea DFT a formării complexilor cu transfer de sarcină în reacții ale acizilor organici antioxidanți cu radicalii DPPH• și ABTS•+: rolul crucial al solvenților

Gorbaciov Mihail<sup>1</sup>, Gorincioi Natalia<sup>1</sup>, Bălan Iolanta<sup>1</sup>, Arsene Ion<sup>1,2</sup>

<sup>1</sup> Institutul de Chimie,

<sup>2</sup> Universitatea de Stat din Tiraspol

### Instruire prin cercetare pentru o societate prosperă. Chimie

// ISSN -

Disponibil online 28 March, 2022. Descarcări-3. Vizualizări-460

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## 2017 - 2

### Ionic quasi-splet mechanism of the interaction of some organic antioxidant acids with the radicals ABTS•+ and DPPH•

Gorbachev Mikhail, Gorinchoy Natalia, Balan Iolanta

Institute of Chemistry

### Ecological and environmental chemistry - 2022

Nr. 2 / 2014 / ISSN 1857-4440 / ISSN<sub>e</sub> 2587-3393

Disponibil online 3 March, 2022. Descarcări-5. Vizualizări-462

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### Molecular orbital nature of the atmospheric reactions between the NO<sub>3</sub> radical and C<sub>3</sub> - C<sub>10</sub> n-alkanes: dft study

Gorbachev Mikhail, Gorinchoy Natalia

Institute of Chemistry

### Ecological and environmental chemistry - 2022

Nr. 2 / 2014 / ISSN 1857-4440 / ISSN<sub>e</sub> 2587-3393

Disponibil online 2 March, 2022. Descarcări-17. Vizualizări-447

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## 2016 - 2

### **Originea pseudo Jahn-Teller a barierei de energie a transferului de proton în dimerii protonați**

*Bălan Iolanta<sup>1</sup>, Gorbaciov Mihail<sup>1</sup>, Gorincioi Natalia<sup>1</sup>, Arsene Ion<sup>12</sup>*

<sup>1</sup> Institutul de Chimie,

<sup>2</sup> Universitatea de Stat din Tiraspol

### **Instruire prin cercetare pentru o societate prosperă. Chimie**

// ISSN -

Disponibil online 25 March, 2022. Descarcări-1. Vizualizări-546

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### **Studiul teoretic a mecanismului procesului de inhibare a radicalului liber DPPH• sub acțiunea vitaminei C**

*Arsene Ion<sup>12</sup>, Gorincioi Natalia<sup>2</sup>, Gorbaciov Mihail<sup>2</sup>, Arsene Ion<sup>1</sup>*

<sup>1</sup> Universitatea de Stat din Tiraspol,

<sup>2</sup> Institutul de Chimie

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// ISSN -

Disponibil online 25 March, 2022. Descarcări-10. Vizualizări-485

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## 2015 - 3

### **The h-bond in environmental redox processes as a pseudo-Jahn-Teller effect**

*Gorinchoy Natalia<sup>1</sup>, Balan Iolanta<sup>1</sup>, Gorbachev Mikhail<sup>1</sup>, Arsene Ion<sup>12</sup>, Polinger Victor<sup>3</sup>, Duka Gh.<sup>1</sup>, Bersuker Isaac<sup>4</sup>*

<sup>1</sup> Institute of Chemistry,

<sup>2</sup> Tiraspol State University,

<sup>3</sup> University of Washington,

<sup>4</sup> University of Texas at Austin

### **Ecological and environmental chemistry - 2022**

Nr. 2 / 2014 / ISSN 1857-4440 / ISSN<sub>e</sub> 2587-3393

Disponibil online 2 March, 2022. Descarcări-15. Vizualizări-528

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### **Theoretical study of the three-stages radical mechanism of the reaction of dihydroxyfumaric acid with the stable radical DPPH•**

*Arsene Ion<sup>12</sup>, Gorinchoy Natalia<sup>1</sup>, Gorbachev Mikhail<sup>1</sup>*

<sup>1</sup> Institute of Chemistry,

<sup>2</sup> Tiraspol State University

### **Ecological and environmental chemistry - 2022**

Nr. 2 / 2014 / ISSN 1857-4440 / ISSN<sub>e</sub> 2587-3393

Disponibil online 2 March, 2022. Descarcări-7. Vizualizări-507

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### **DFT evidence of mutual antioxidant action of caffeic acid and glutathione in their reactions with ABTS+•**

*Gorbachev Mikhail, Gorinchoy Natalia, Balan Iolanta*

Institute of Chemistry, MSU


**Integrare prin cercetare și inovare. Științe ale naturii și exacte**

Nr. 12(304) / 2015 / ISSN 1220-4935

Disponibil online 2 April, 2024. Descarcări-0. Vizualizări-83

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**2014 - 1**

**DFT study of structural features of caffeic acid and quercetin responsible for realization of possible synergistic effect in their joint reaction with the cation-radical ABTS** 

*Gorbachev Mikhail, Gorinchoy Natalia, Balan Iolanta*

Institute of Chemistry, MSU

**Advanced materials to reduce the impact of toxic chemicals on the environment and health"**

Nr. 4(45) / 2009 / ISSN 0013-5739 / ISSNe 2345-1718

Disponibil online 23 September, 2023. Descarcări-2. Vizualizări-212

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**2012 - 2**

**Pseudo efectul Jahn-Teller în starea de tranziție a transferului dublu de protoni în dimerul acidului formic**

*Bălan Iolanta, Gorbaciov Mihail, Gorincioi Natalia*

Institutul de Chimie, USM

**Instruire prin cercetare pentru o societate prosperă**

Nr. 1-2 / 2015 / ISSN 1857-4122

Disponibil online 19 April, 2023. Descarcări-6. Vizualizări-279

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**Unele proprietăți fizico-chimice ale n-alkanii cu lanț scurt cauzate de orbitalii lor moleculari specifici**

*Gorbaciov Mihail, Gorincioi Natalia, Bălan Iolanta, Arsene Ion*

Institutul de Chimie, USM

**Instruire prin cercetare pentru o societate prosperă**

Nr. 1-2 / 2015 / ISSN 1857-4122

Disponibil online 19 April, 2023. Descarcări-0. Vizualizări-274

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**2005 - 2**

**Evidența DFT a interacțiunii sinergice dintre unele flavanoide și acizi fenolici în reacțiile lor comune cu ABTS+•**

*Gorbaciov Mihail, Gorincioi Natalia, Bălan Iolanta*

Institutul de Chimie

**Instruire prin cercetare pentru o societate prosperă**

Vol. 31, / 2016 / ISSN 0268-1242

Disponibil online 21 June, 2024. Descarcări-0. Vizualizări-21

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# Evidența DFT a interacțiunii sinergice dintre unele flavanoide și acizi fenolici în reacțiile lor comune cu ABTS+•

Gorbaciov Mihail, Gorincioi Natalia, Bălan Iolanta

Institutul de Chimie

## Instruire prin cercetare pentru o societate prosperă

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