

## ANEXA

### LISTA DE LUCRĂRI

**A. TEZA DE DOCTORAT : Materiale compozite cu polimeri. Studii si cercetari privind procesele fizico-chimice si transformarile structurale la obtinerea acestora, 2002, Galati, România**

**B.**

#### **B. CĂRȚI ȘI CAPITOLE DIN CĂRȚI**

##### **[B1] Autor**

[1] Dima D., „CHIMIE GENERALA”; Ed. Academica Galati, 2003 ISBN 973-8316-53-7 , 206 pg.

##### **[B2] Coautor**

[1] Sahlean D., Stoian C., Dima D. „CHIMIE GENERALA SI ANORGANICA”; Ed. Fundatiei Universitare „Dunarea de Jos” Galati, 2001 ISBN 973-8352-00-2 , 202 pg

[2] Benea L., Dima D. „CHIMIE GENERALA” TEORIE SI APLICATII PRACTICE; Ed. Ars Docendi, Bucuresti , 1999 ISBN 973-98840-7-5 , 197 pg

[3] Sahlean D., Stoian C., Dima D., Chimie generală, - Laborator – Ed. Universității "Dunărea de Jos" din Galați, 2000, 201 pg

[4] Benea L., Dima D., Chimie generală, - Laborator – Ed. Universității "Dunărea de Jos" din Galați, 1997' 164 pg

[5] Stoian Aurel, Dima D, Chimie generală, - Laborator – Ed. Universității "Dunărea de Jos" din Galați, 1997, 85pg.

#### **C. ARTICOLE PUBLICATE ÎN REVISTE DE SPECIALITATE (COTATE ISI SAU RECUNOSCUTE CNCISIS)**

##### **[C1] Articole publicate în reviste de specialitate cotate ISI**

[1] T F Ionescu<sup>1</sup>, D Guglea<sup>1</sup>, D Dima<sup>2</sup>, C Georgescu<sup>1</sup> and L Deleanu, Influence of ZnO concentration in rapeseed oil on tribological behavior, International Conference on Tribology, Rotrib 2019, Cluj-Napoca, (va fi proceeding ISI)

[2] Dionis Guglea, Traian Florian Ionescu, Dumitru Dima, Constantin Georgescu, Lorena Deleanu

Influence of Nano Particles of hBN as Additive in Rapessed Oil for Evaluating the Tribological Behavior

[3] Traian Florian Ionescu, Dionis Guglea, Dumitru Dima, Constantin, Influence of nano particles of ZnO as additive in rapessed oil for evaluatong the tribological behavior

[4] D Guglea, T F Ionescu, D Dima, C Georgescu and L Deleanu, Tribological behavior of rapeseed oil additivated with boron nitride, International Conference on Tribology, Rotrib 2019, Cluj-Napoca (va fi proceeding ISI)

[5] George Catalin Cristea G. C., Deleanu L., Dima D. and Georgescu C., Tribological behavior of soybean oil with nano carbon as additive, TURKEY TRIB 2018, 2ND International Conference on Tribology, 18-20 May 2018, Istanbul  
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[6] Bastiurea, M (Bastiurea, Marian); Dima, D (Dima, Dumitru); Hadar, A (Hadar, Anton); Andrei, G (Andrei, Gabriel), Friction and Wear Behaviour of Polyester Nanocomposites with Graphene Oxide and Graphite Investigated Through Block-on-ring Test  
Source: REVISTA DE CHIMIE Volume: 69 Issue: 6 Pages: 1391-1397 Published: JUN 2018, Accession Number: WOS:000438397400019  
ISSN: 0034-7752

[7] Effect of Graphene Oxide and Graphite on Dry Sliding Wear Behavior of Polyester Composites, Author(s): Bastiurea, M (Bastiurea, Marian); Dima, D (Dima, Dumitru); Andrei, G (Andrei, Gabriel)\*, Source: MATERIALE PLASTICE Volume: 55 Issue: 1 Pages: 102-110 Published: MAR 2018, Accession Number: WOS:000444129500023, ISSN: 0025-5289

[8] Cristea, G.C., Dima, C., Dima, D., Georgescu, C., Deleanu, L., Nano graphite as additive in soybean oil 2017 MATEC Web of Conferences, 112, 04023

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**[C3]** Articole/studii publicate în reviste din țară recunoscute de CNCSIS

[1]. Marian BASTIUREA, Magdalena Silvia RODEANU, Gabriel ANDREI, Dumitru DIMA, Monica MURARESCU, Minodora RIPA, Adrian CIRCIUMARU - Determination of Specific Heat of Polyester Composite with Graphene and Graphite by Differential Scanning Calorimetry, BALKANTRIB'14, 8th INTERNATIONAL CONFERENCE ON TRIBOLOGY 30 th October - 1 st November 2014 SINAIA, ROMANIA, Proceedings, pp. 444-450. ISBN 978-973-719-570-8.

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**[D] ARTICOLE PUBLICATE ÎN VOLUMELE UNOR MANIFESTĂRI ȘTIINȚIFICE INTERNAȚIONALE RECUNOSCUTE DIN ȚARĂ ȘI STRĂINĂTATE (cu ISSN sau ISBN)**

[1] Bastiurea M.S., Bastiurea M., Dima D., Murarescu M., Andrei G., Dynamic mechanical properties for polyester /microcellulose and polyester/nanocellulose, IEEE NANO 2015 - INTERNATIONAL CONFERENCE ON NANOTECHNOLOGY, 27–30 July 2015, Rome, Italy

[2]. Bastiurea M., Bastiurea M.S., Dima D., Murarescu M., Andrei G., Thermal properties of polyester/graphene oxide and polyester/graphite determined by TMA, Proceedings of the 6th International Conference on Nanotechnology: Fundamentals and Applications, Barcelona, Spain – July 15-17, 2015

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- [10]. L. Balint, D. Dima, S. Balint, E. Drugescu, C. Radu, Obținerea și caracterizarea straturilor compozite de feroniobiu în matrice de cobalt pe suport de oțel, Simpozionul „Protectii anticorozive” 26 – 28 octombrie 2006, Cluj-Napoca
- [11]. D.Dima, L.P.Georgescu, Coatings by Composit Materials with Polyuretane Matrix, Al VIII-lea Simpozion de Chimia Coloizilor și Suprafetelor Galati 2-4 iunie 2005 , P.I.42. ISBN 973-8316-84-7.
- [12]. D. Dima, Studiul influenței particulelor feritice și al răforsului fibra de sticlă asupra cristalității unui material de tip compozit cu matrice poliesterică, Art Cast 2006 ‘Turnatoria de la rigarea tehnicii la arta’, 4 – 5 mai 2006 Galati

## **[E] ALTE LUCRĂRI ȘI CONTRIBUȚII ȘTIINȚIFICE**

**[E1] Brevete de invenție  
Nationale**

**1. Brevet de invenție nr. 128730 din 30/05/2017 MATRICE EPOXIDICĂ, ADITIVATĂ CU NANOTUBURI DE CARBON ȘI AMIDON      Autori: Circiumaru Adrian, Andrei Gabriel, Dima Dumitru, Murarescu Monica**

**2. Brevet de invenție nr. 127396 din 29/09/2017 PROCEDURE DE OBTINERE A MATERIALELOR COMPOZITE CU NANOTUBURI DE CARBON PRIN DISPERSIE SUCESIVA MECANICA, ULTRASONICA SI MAGNETICA      Autori: Dima Dumitru, Murarescu Monica , Andrei Gabriel, Circiumaru Adrian**

**3. Brevet de invenție nr. 128729 din 30/10/2017 COMPOZIT POLIMERIC MULTIFUNCTIONAL, CU ARHITECTURA MULTISTRAT      Autori: Andrei Gabriel, Circiumaru Adrian, Dima Dumitru, Murarescu Monica**

**4. Brevet de invenție nr. 127397 din 26/02/2016 PROCEDURE DE DE COMPATIBILIZARE A NANOTUBURILOR DE CARBON      Autori: Dima Dumitru., Murarescu Monica, Andrei Gabriel., Circiumaru Adrian.**

**5. Brevet de invenție nr. 126293 din 30/01/2015 PROCEDURE DE TRATARE A TESATURILOR DIN FIBRE DE CARBON POLI(P-FENIL-TEREFTALAMIDA), CARBON-POLI(P-FENILEN-TEREFTALAMIDA)      Autori: Circiumaru Adrian , Andrei Gabriel, Birsan Iulian Gabriel, Dima Dumitru**

**6. Brevet de invenție Nr. 208 data eliberării 25.09. 1985 : „Procedeu de plumbuire a tablelor pe suport de zinc”      Autori: Stanciu Tatian, Benea Lidia, David Mihaela. Dima Dumitru, Soltuz Iordan. data înregistrării 29.04.1984 ICPPAM Galati**

**7. Brevet de invenție Nr. 240 data eliberării 18.11. 1985: „Tehnologie de pasivizare a benzilor electrozincate prin cromare chimică”;      Autori: Benea Lidia, Giuglea Madalina, Dima Dumitru, Dumitrescu Carmen, Vals Augustin.**

#### **F. Proiecte de cercetare-dezvoltare-inovare pe baza de contract/grant**

##### **[F1] Director de proiect**

**Contract nr. 17 Tehnologie de acoperire cu poliuretan a roloanelor aferente instalațiilor de ulei și cajei de dresare de la Ajustaj-LBR-CSG Nr. înregistrare 10663/12.11.1991- DIRECTOR DE PROIECT**

##### **[F2] Membru în echipa de cercetare**

**Proiecte internaționale – expert (MEMBRU în echipa)**

**[1] EC-Program “Improving the Human Research Potential and Socio-Economic Knowledge Base” AMTT Programme - HPRI-CT-1999-00024, 2002, Project title “Experimental assessment of the quality and performance of GF-PR-FA magnetic composite used in aircraft industry”, Austrian Research Centers-AMTT, Group leader Prof.dr.ing. Gabriel**

**Proiecte naționale – expert (membru în echipa)**

**1. Proiect IDEI – PCE 519/2008, Etapa 2011, Dezvoltarea unui nou concept de nanostructurare a compozitelor polimerice hibride multifuncționale cu proprietăți controlate spațial. Director Prof.dr.ing. Gabriel Andrei, 193 080 Lei**

**2. Proiect IDEI – PCE 519/2008, Etapa 2010, Dezvoltarea unui nou concept de nanostructurare a compozitelor polimerice hibride multifuncționale cu proprietăți controlate spațial. Director Prof.dr.ing. Gabriel Andrei, 175 000 Lei**

**3. Grant IDEI – PCE 519/2008, Etapa 2009, Dezvoltarea unui nou concept de nanostructurare a compozitelor polimerice hibride multifunctionale cu proprietati controlate spatial. Director Prof.dr.ing. Gabriel Andrei, 86675,57 Lei**

**4. Grant CNCSIS tip A COD 514 / tema 1/ 2006, Dezvoltarea unei noi clase de compozite polimerice nanostructurate usoare cu proprietati electrice si magnetice pentru aplicatii aero-spatiale.**

**Director Prof.dr.ing. Gabriel ANDREI, 77965 RON, 2006.**

**5. Proiect CEEEX, 2006, modulul IV, cod 452, "Adoptarea si implementarea metodelor de incercare pentru evaluarea conformitatii lubrifiantilor", valoare 800000 RON. Director: Minodora Ripa, membru Prof.dr.ing. Gabriel ANDREI.**

**6. Grant CNCSIS 448/ 2004, Sinteza, analiza si prelucrarea unor noi angrenaje nestandardizate din nanocompozite polimerice, 109 mil Rol, Director Andrei, L., membru Prof.dr.ing. Gabriel Andrei.**

**7. Grant CNCSIS, tip A, No 18/548/2001, Dezvoltarea unui nou tip de angrenaje cilindrice cu dinti curbi din materiale compozite, 46 mil Rol, Director: Prof.dr.ing. Gabriel Andrei.**

**8.PNII-Parteneriate,3121/2008 Ecotehnologii de reabilitare si reconstituire ecologica a solurilor contaminate in zona depozitelor de deseuri urbane si industrial 2008-2011, membru în proiectul de cercetare**

**9. Proiect PN II, Parteneriate 32102 / 2008 Cercetari privind determinarea proceselor si parametrilor optima pentru imbunatatirea gradului de remediere a solurilor contaminate cu hidrocarburi (2008 – 2011)  
membru în proiectul de cercetare**

**10. Proiectul POSDRU/88/1.5/S/61445 “Eficientizarea activitatii studentilor din cadrul ciclului de studii doctorale-EFICIENT”, Director: Lucian P. Georgescu 2009 – 2012 - Membru**

**11. Proiectul POSDRU/107/1.5/S/76822, “Calitatea si continuitatea formarii in cadrul ciclului de studii doctorale - TOP ACADEMIC”, Director: Lucian P. Georgescu, 2010 – 2013 - Membru**

**12. Contract 22DPST/20.08.2013.**

**“Tehnologii de obtinere a benzilor subtiri de nichel cu valoare adaugata ridicata prin acoperire chimica cu aliaje de nichel si compozite in matrice de nichel”, Acronim NICOVER,**

**Perioada de desfasurare: 20.08.2013- 15.11.2015; durata 27 luni.**

**Valoare P1 UDJ-400 000 LEI Director: Tamara Radu, Membru**

**13. PERFORMANȚA SUSTENABILĂ ÎN CERCETAREA DOCTORALĂ ȘI POST DOCTORALĂ – PERFORM**

**Cod proiect:**

**POSDRU/159/1.5/S/138963**

**Perioada de implementare: 8 aprilie 2014 – 7 octombrie 2015**

**14. Proiect 692/23.12.2016, STUDIU ASUPRA NAMOLULUI PROVENIT DE LA STATIA DE EPURARE A APELOR UZATE BRAILA**

**15. Programul PN III, proiect Bridge Grant, nr. 79BG. Cod proiect PN-III-P2-2.1-BG-2016-0307, Eficientizarea procesului tehnologic de obținere a nămolurilor de epurare utilizabile în agricultură, Eficient, 1.10. 2016 – 30 septembrie 2018**

**16. Proiect Blaeck Sea e-Eye 1475**

**17 Titlul proiectului: PROGRES / Sustinerea egalitatii de sanse si promovarea profesionala a femeilor**

**Codul proiectului: 129743/2014**

**18. Titlul proiectului: Sisteme de calitate și internaționalizare în învățământul superior din filiera TURISM-MEDIU-CULTURA Codul proiectului: 141248/2014**

**19. Titlul proiectului: 6PS/2017 - Cercetări în sprijinul modernizării sistemului național de monitorizare a ecosistemelor silvice prin utilizarea tehnicilor de teledetecție și a sistemelor de tip UAV. Sectorial 2017/2018 Responsabil: Gabriel Murariu**

**20. PN-III-P2-2.1-BG-2016-0307, proiect Bridge Grant, nr. 79BG. , Eficientizarea procesului tehnologic de obținere a nămolurilor de epurare utilizabile în agricultură, Eficient, 1.10. 2016 – 30 septembrie 2018**

**Propuneri Proiecte in cadrul programelor nationale si internationale:**

**2017- Tehnologii de valorificare a nămolurilor rezultate din stațiile de epurare orășenești și a deșeurilor din gropile de gunoi-Sectorial MCI 2017**

## **G. CITĂRI ÎN ARTICOLE PUBLICATE ÎN REVISTE ISI**

**1. Andrei, G., Dima D., Birsan I., Andrei L., Circiumaru A., 2009, Effect of Ferrite Particles on Mechanical Behaviour of Glass Fibers Reinforced Polymer Composite, MATERIALE PLASTICE 46, Nr. 3, 2009, 284-287.**

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**Negoită, C., Cristache, N., Bodor, M., The Epoxy Resin - History and Perspectives, MATERIALE PLASTICE**

**Vol. 53 No 3, 564-571, 2016**

**2. Andrei Gabriel, Dima Dumitru, Andrei Laurenția, Lightweight magnetic composites for aircraft applications, Journal of Optoelectronics and Advanced Materials, vol. 8 (2), pp. 726-730, 2006**

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**Gaynutdinov, Rustam R.; Chermoshentsev, Sergey F, Study of Lightning Strike Impact on Unmanned Aerial Vehicle, Book Series: International Conference and Seminar of Young Specialists on Micro-Nanotechnologies and Electron Devices Pages: 428-432 Published: 2016**

**3. Ciupagea I., Andrei G., Dima D., Murarescu M., Specific heat and thermal expansion of polyester composites containing singlewall -, multiwall - and functionalized carbon nanotubes, Digest Journal of Nanomaterials and Biostructures, Vol. 8, No. 4, 1611 – 1619, 2013**

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- Khosla, S., Sharma, A.Sood, N., Field dependence of liquid-crystalline phase in liquid-crystal and carbon nanotubes composite, LIQUID CRYSTALS, Vol 43, No 4, 484-487, 2016
4. Ciupagea I., Andrei G., Dima D., Murarescu M., Specific heat and thermal expansion of polyester composites containing singlewall -, multiwall - and functionalized carbon nanotubes, Digest Journal of Nanomaterials and Biostructures, Vol. 8, No. 4, 1611 – 1619, 2013  
Citat în:  
Khosla, S., Sharma, A.Sood, N., Changing liquid crystalline phase with field, , LIQUID CRYSTALS, Vol 43, No 6, 770-776, 2016
5. Murarescu, M., Dima, D., Andrei, G., Circiumaru, A., Synthesis of Polyester Composites with Functionalized Carbon Nanotubes by Oxidative Reactions and Chemical Deposition, Digest Journal of Nanomaterials and Biostructures, Vol. 9, No. 2, 653 – 665, , 2014.  
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- 6.Circiumaru A., Bria V., Roman I., Andrei G.,Dima D., BirsanIG.,Physical properties of filled epoxy composites, Annals of DAAAM for 2011 & Proceedings of the 22nd International DAAAM Symposium, Volume 22, No. 1, pp. 0059-0060, ISSN 1726-9679, ISBN 978-3-901 509-83-4, Editor B Katalinic, Published by DAAAM International Vienna, Austria, EU, 2011  
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7. V. BRIA, D. DIMA, G. ANDREI, I.-G. BIRSAN, A. CIRCIUMARU, Tribological and Wear Properties of Multi-Layered Materials, Tribology in industry, Volume 104 33, No. 3, 104-109, 2011.  
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8. Murarescu M., Dima D., Andrei G., Circiumaru A., Influence of MWCNT dispersion on electrical properties of nanocomposites with polyester matrix, Annals of DAAAM for 2010 & Proceedings of the 22nd International DAAAM Symposium, Volume 22, No. 1, pp. 0925-0926, ISSN 1726-9679, ISBN 978-3-901 509-83-4, Editor B Katalinic, Published by DAAAM International Vienna, Austria, EU, 2011  
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9. Circiumaru, A., Andrei, G., Dima, D., Birsan, I., Bria, V., 2010, Thermal Properties of Some Particulate Composites, Annals of DAAAM for 2010 & Proceedings of the 21st International DAAAM Symposium, Volume 21, No. 1, pp. 0069-0070, ISSN 1726-9679, ISBN 978-3-901 509-73-5, Editor B Katalinic, Published by DAAAM International Vienna, Austria, EU, 2010  
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**11. Bria V., Circiumaru A., Birsan IG., Andrei G., Dima D., Roman I., Fabric reinforced laminae and laminates with starch epoxy matrix, Annals of DAAAM for 2010 & Proceedings of the 22nd International DAAAM Symposium, Volume 22, No. 1, pp. 0291-0292, ISSN 1726-9679, ISBN 978-3-901 509-83-4, Editor B Katalinic, Published by DAAAM International Vienna, Austria, EU, 2011**

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**12. Bastiurea M., Bastiurea M.S., Dima D., Murarescu M., Andrei G., Thermal and mechanical properties of polyester composites with graphene oxide and graphite. Digest Journal of Nanomaterials and Biostructures Vol. 10, No. 2, April - June 2015, p. 521 – 533.**

**Citat în:**

**Diez-Pascual, A.M., Diez-Vicente, A.L., Poly(propylene fumarate)/Polyethylene Glycol-Modified Graphene Oxide Nanocomposites for Tissue Engineering, ACS APPLIED MATERIALS & INTERFACES Volume: 8 Issue: 28, 17902-17914, 2016**

**13. Bastiurea M., Bastiurea M.S., Dima D., Murarescu M., Andrei G., Thermal and mechanical properties of polyester composites with graphene oxide and graphite. Digest Journal of Nanomaterials and Biostructures Vol. 10, No. 2, April - June 2015, p. 521 – 533.**

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**Kongahge, Dharshika, Foroughi, Javad, Gambhir, Sanjeev; et al., Fabrication of a graphene coated nonwoven textile for industrial applications, RSC ADVANCES, Volume: 6 Issue: 77, 73203-73209, 2016**

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**Ayesha Kausar, Irum Rafique, Bakhtiar Muhammad, Aerospace Application of Polymer Nanocomposite with Carbon Nanotube, Graphite, Graphene Oxide and Nanoclay, Journal Polymer-Plastics Technology and Engineering, 2016**