

## Fișa de îndeplinire a standardelor minime CNATDCU

Candidată : Conf. Dr. Aurelia-Anca DUMITRU

| Nr. crt. | Tipul de activitate                                                                                      | Indicator obținut de candidată | Standard minimal abilitare | Criteriu îndeplinit (DA/NU) |
|----------|----------------------------------------------------------------------------------------------------------|--------------------------------|----------------------------|-----------------------------|
| 1        | Activitatea didactică și profesională                                                                    | 11,50                          | 2                          | DA                          |
| 2        | Activitatea de cercetare: articole științifice originale în extenso ca autor                             | 4,28                           | 4                          | DA                          |
| 3        | Activitatea de cercetare: articole științifice originale în extenso ca prim autor sau autor corespondent | 9,98                           | 4                          | DA                          |
| 4        | Citări în reviste cu factor de impact                                                                    | 96,88                          | 40                         | DA                          |
| 5        | Indicele Hirsch                                                                                          | 12                             | 10                         | DA                          |
| 6        | <b>Punctaj total CNATDCU</b>                                                                             | <b>25,87</b>                   | <b>12</b>                  | DA                          |

Conf. Dr. Anca Dumitru



Fișa de verificare a îndeplinirii standardelor CNATDCU  
pentru susținerea Tezei de Abilitare în domeniul Fizică de către candidata  
Conf. Dr. Aurelia-Anca DUMITRU

**I. Activitatea didactică și profesională**

| Nr.crt.                                               | Tipul activitatilor                                                                                                                                                                                                                                                                                                                                           | Indicatori                   | Indicatori realizati |
|-------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------|
| 1                                                     | Carti in edituri internationale recunoscute Web of Science in calitate de autor                                                                                                                                                                                                                                                                               | $A_1 = \sum 4/n_i^{ef}$      | 0                    |
| 2                                                     | Capitole de carti in edituri internationale recunoscute Web of Science in calitate de autor/ Review-uri in reviste cotate ISI                                                                                                                                                                                                                                 | $A_2 = \sum 1/n_i^{ef}$      | 0,75                 |
| 3                                                     | Carti in edituri internationale recunoscute Web of Science in calitate de editor                                                                                                                                                                                                                                                                              | $A_3 = \sum 0.5/n_i^{ef}$    | 0                    |
| 4                                                     | Carti, manuale, indrumare de laborator in edituri nationale sau in alte edituri internationale ca autor, note interne, prezentari sustinute pentru aprobarea analizelor de date in cadrul colaborarilor mari                                                                                                                                                  | $A_4 = \sum 0.5/n_i^{ef}$    | 0                    |
| 5                                                     | Capitole de carti in edituri nationale sau alte edituri internationale ca autor                                                                                                                                                                                                                                                                               | $A_5 = \sum 0.2/n_i^{ef}$    | 0                    |
| 6                                                     | Lucrari in extenso (cel putin 3 pagini) publicate in Proceeding-uri indexate ISI                                                                                                                                                                                                                                                                              | $A_6 = \sum 0.2/n_i^{ef}$    | 0,097                |
| 7                                                     | Brevete de inventie internationale acordate                                                                                                                                                                                                                                                                                                                   | $A_7 = \sum 3/n_i^{ef}$      | 0                    |
| 8                                                     | Brevete de inventie nationale acordate                                                                                                                                                                                                                                                                                                                        | $A_8 = \sum 0.5/n_i^{ef}$    | 0,124                |
| 9                                                     | Director/responsabil/coordonator pentru programe de studii, programe de formare continua, proiecte educationale si proiecte de infrastructura (proiectele de cercetare se exclud)                                                                                                                                                                             | $A_9 = \sum 0.5$             | 0                    |
| 10                                                    | Director/responsabil pentru proiecte de cercetare in valoare de $V_i$ euro castigate prin competitie nationale sau internationale. Sumele in lei sau in alte valute se convertesc in euro la cursul mediu din anul respectiv conform <a href="http://www.bnr.ro">www.bnr.ro</a> pentru perioada de dupa 1999 si la cursul din 1999 pentru proiecte anterioare | $A_{10} = \sum V_i / 100000$ | 10,53                |
| <b>Total A</b>                                        |                                                                                                                                                                                                                                                                                                                                                               |                              | <b>11,501</b>        |
| <b>Punctaj minim pentru Abilitare / CSI /Profesor</b> |                                                                                                                                                                                                                                                                                                                                                               |                              | <b>2</b>             |

## II. Activitatea de cercetare

| Nr.crt.                                         | Tipul activitatilor                                                             | Indicatori                  | Indicatori realizati |
|-------------------------------------------------|---------------------------------------------------------------------------------|-----------------------------|----------------------|
| 1                                               | Articole stiintifice originale in extenso ca autor                              | $I = \sum AIS_i / n_i^{ef}$ | 4,282                |
| <b>Punctaj minim pentru Abilitare/CSI/Prof.</b> |                                                                                 |                             | <b>4</b>             |
| 2                                               | Articole stiintifice originale in extensor ca prim autor sau autor corespondent | $P = \sum AIS_i$            | 9,982                |
| <b>Punctaj minim pentru Abilitare/CSI/Prof.</b> |                                                                                 |                             | <b>4</b>             |
| <b>3</b>                                        | <b>Total A2</b>                                                                 |                             | <b>14,264</b>        |

## III. Recunoasterea impactului activitatii

| Nr.crt.                                                | Tipul activităților                                                                                                                                                           | Indicatori                | Indicatori realizati |
|--------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|----------------------|
| 1                                                      | Citari in reviste stiintifice cu factor de impact care se regasesc in InCites Journal Citations Reports sau in carti in edituri recunoscute Web of Science. (fara autocitari) | $C = \sum c_i / n_u^{ef}$ | 96,88                |
| <b>Punctaj minim pentru Abilitare / CSI / Profesor</b> |                                                                                                                                                                               |                           | <b>40</b>            |
| 2                                                      | Indicele hirsch                                                                                                                                                               | h                         | 12                   |
| <b>Punctaj minim pentru Abilitare / CSI / Profesor</b> |                                                                                                                                                                               |                           | <b>10</b>            |

**Justificare a punctajelor prezentate în Fișa de verificare a îndeplinirii  
standardelor CNATDCU  
pentru susținerea Tezei de Abilitare în domeniul Fizică de către candidata  
Conf. Dr. Aurelia-Anca DUMITRU**

**I. Activitatea didactică și profesională**

I.2. Capitole de carti in edituri internationale recunoscute Web of Science in calitate de autor/ Review-uri in reviste cotate ISI; <http://wokinfo.com/mbl/publishers/>

**Total I.2.: 0,75**

| Capitole de carti in edituri internationale recunoscute Web of Science                                                                                                                                                                                                                                                                                                                                                               | Indicatori              | n | n <sub>ef</sub> | kpi         |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|---|-----------------|-------------|
| <b>A. Dumitru</b> , I. Stamatin, S. Grecu , M. Ionescu "Plasma Polymerization of Thin Films Using Aniline and p-Xylene Precursors"; In "Frontiers of High Pressure Research II: Application of High Pressure to Low-Dimensional Novel Electronic Materials", Editor(s): H. D. Hochheimer, B. Kuchta, P. K. Dorhout and J. L. Yarger, Publisher: Kluwer Academic Publishers, Volume 48, pp 44-51, 2001; DOI 10.1007/978-94-010-0520-3 | $A_2 = \sum 1/n_i^{ef}$ | 4 | 4               | 0,25        |
| <b>Anca Dumitru</b> and Keith Scott, Anode Materials for microbial fuel cells, In Microbial Electrochemical and Fuel Cells. Fundamentals and Applications, 1 <sup>st</sup> Edition, Editors: Keith Scott, Eileen Hao Yu; Publisher: Woodhead Publishing, pp.117-152, 2016, ISBN 9781782423751; DOI:10.1016/B978-1-78242-375-1.00004-6                                                                                                | $A_2 = \sum 1/n_i^{ef}$ | 2 | 2               | 0,5         |
| <b>Total</b>                                                                                                                                                                                                                                                                                                                                                                                                                         |                         |   |                 | <b>0,75</b> |

**I. 6. lucrari in extenso (cel putin 3 pagini) publicate in Proceedings-uri indexate ISI ;**

**Total I.6.: 0,097**

| Proceedings Paper                                                                                                                                                                                                                                                                                                                  | Indicatori                | n  | n <sub>ef</sub> | kpi   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|----|-----------------|-------|
| L.C. Cotet, <b>A. Dumitru</b> , A. Moroza I. Stamatin,V. Cosoveanu, V. Danciu, Carbon Aerogels -Supported Pt with Applications in Fuel-Cells, Clean Technology 2008: Bio Energy, Renewable, Green Building, Smart Grid, Storage and Water, 2008, Page 310-312; Publishers: CRC PRESS-TAYLOR & FRANCIS GROUP ISBN:978-1-4200-8502-0 | $A_2 = \sum 0.2/n_i^{ef}$ | 6  | 5.5             | 0,036 |
| Sava, B. A, Diaconu A., Ursu, L.-D., Boroica L., Elisa, M., Grigorescu C., Vasiliu C., Stamatin I., Nastase F., Nastase C., <b>Dumitru, A.</b> , Ecological silicate glasses, Book Series: Advanced Materials Research 2008, 39-40, pp.667-670; DOI:10.4028/www.scientific.net/AMR.39-40.667                                       | $A_2 = \sum 0.2/n_i^{ef}$ | 11 | 8               | 0,025 |

|                                                                                                                                                                                                                                                                                                             |                           |   |     |              |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|---|-----|--------------|
| A.Morozan, F. Nastase, <b>A. Dumitru</b> , C.Nastase, S. Vulpe, M. Filipescu, Plasma processing of polypyrrole-heparin thin films on titanium substrates for biomedical applications, Physica Status Solidi C-Current Topics in Solid State Physics, 2009, Vol. 6 (10)2195-2198; DOI 10.1002/pssc.200881715 | $A_2 = \sum 0.2/n_i^{ef}$ | 6 | 5.5 | 0,036        |
| <b>Total</b>                                                                                                                                                                                                                                                                                                |                           |   |     | <b>0,097</b> |

#### I.8.Brevete de inventie nationale acordate

##### Total I.8.: 0,124

| Brevete de inventie nationale acordate                                                                                                                                                                                                                                                                                                                                                                                                                                       | Indicatori                | n  | n <sub>ef</sub> | kpi          |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|----|-----------------|--------------|
| Procedeu de obtinere a granulelor de polipirrol continand enzyme imobilizate covalent;; Autori: Sarbu Andrei, Sandu Teodor, Sandulescu Robert, Cristea Cecilia, Dima Stefan Ovidiu, Udrea Ion, Bradu Corina, <b>Dumitru Aurelia Anca</b> , Vulpe Silviu, Iovu Horia, Sarbu Liliana, Bodoki Ede, publicat in Buletinele Oficiale de Proprietate Industriala 7/2013, cererea de brevet nr. a 2011 00288, Nr. de publicare 128661A2 in RO-BOPI7/2013; Patent Number RO128661-A2 | $A_8 = \sum 0.5/n_i^{ef}$ | 12 | 8,5             | 0,058        |
| Procedeu de obtinere a nitrurii de titan pe baza de TiO2 mezoporos, Radu Anita-Laura, Sârbu Andrei, <b>Dumitru Aurelia-Anca</b> , Iftime Sorina, Carmen Lazau, Orha Corina Ileana, Tanta Verona Iordache, Teodor Sandu, Miron Andreea, Steluta Apostol, OSIM A00166/15.03.2019;publicat in RO-BOPI/2024, din 30.08.2024; nr brevet: RO134443 B1 clasa: C01B21/76, C04B35/01, rezultat din A 2019- 0166                                                                       | $A_8 = \sum 0.5/n_i^{ef}$ | 10 | 7,5             | 0,066        |
| <b>Total</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                           |    |                 | <b>0,124</b> |

I.10.Director/responsabil pentru proiecte de cercetare in valoare de V<sub>i</sub> euro castigate prin competitie nationale sau internationale. Sumele in lei sau in alte valute se convertesc in euro la cursul mediu din anul respectiv conform [www.bnr.ro](http://www.bnr.ro) pentru perioada de dupa 1999 si la cursul din 1999 pentru proiecte anterioare;

##### Total: 10,53

| Proiect                                                                                                                                                                  | Finanțat de: | Funcția             | Perioada:             | Valoare (lei) | Curs Euro                 | Valoare (Euro) |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|---------------------|-----------------------|---------------|---------------------------|----------------|
| Impactul anozilor modificati cu nanocompozite asupra performanței celulelor de combustie microbiene prin modificarea comunității biofilmului; PN-III-P4-ID-PCE-2020-0956 | UEFISCD I    | Director de proiect | 04.01.2021-04.01.2023 | 1198032       | 4.8371<br>Curs mediu 2020 | 247675.67      |
| Celule de combustie microbiene (MFC) cu functionare continua si discontinua, o metoda                                                                                    | UEFISCD I    | Director de proiect | 2020-2022             | 600000        | 4.8371<br>Curs mediu 2020 | 124041.26      |

|                                                                                                                                                                                                                                                 |           |                         |                              |        |                        |                  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-------------------------|------------------------------|--------|------------------------|------------------|
| ecologica pentru tratarea apelor uzate si generarea autonoma de electricitate BIOECOMFC; 370PED/2020                                                                                                                                            |           |                         |                              |        |                        |                  |
| Nanotehnologii inovative pe baza de polimeri pentru obtinerea de noi materiale avansate- NAPOLI 19 – PNCD III-Proiecte complexe realizate în consorții CDI (PCCDI) -2018-2020; 40PCCDI/2018                                                     | UEFISCD I | Responsabil partener UB | 15.03.2018-15.03.2021        | 650891 | 4.6535 Curs mediu 2017 | 139871.27        |
| Elaborarea unui model funcțional de celule de combustie microbiene pentru producerea de bioelectricitate cu tratarea simultană a apelor uzate municipale, PN-III-P2-2.1-PED-2016-1008, ctr.11PED/2017                                           | UEFISCD I | director                | 1.01.2017-30.06.2018         | 60000  | 4.5484 Curs mediu 2017 | 131914.5         |
| Celulele microbiene electrochimice pe baza de materiale carbonice dopate cu azot pentru decontaminarea si valorificarea energetica a apelor uzate, PN-II-RU-TE-2014-4-0221, ctr. 81/2015                                                        | UEFISCD I | director                | 1.10.2015-31.11-2017         | 550000 | 4.4450 Curs mediu 2015 | 123734.5         |
| Marie Curie Actions—Intra-European Fellowships (IEF) for career development - BEC-ME 274078 - Microbial Electrochemical Cells with modified electrode based on 'forest' like carbon nanotube (CNTs) and CNT- conducting polymers nanocomposites | UE        | director                | November 2011 - October 2013 | -      | -                      | 271637           |
| AT 144: Cercetari Experimentale ale Ansamblului Membrană-Electrod pe baza dezvoltării de noi tipuri de materiale carbon-polimere și ceramice nanostructurate cu proprietăți avansate                                                            | CNCSIS    | director                | 2006-2007                    | 38.000 | 3.62                   | 10497            |
| AT-33618-20b Synthesis and characterization of polypyrrole and polythiophene films, smart structured materials: sensor and biosensor application                                                                                                | CNCSIS    | director                | 2001-2002                    | 6000   | 1.63                   | 3680             |
| <b>Total</b>                                                                                                                                                                                                                                    |           |                         |                              |        |                        | <b>1053051.2</b> |
| <b>Indicator: total/100000</b>                                                                                                                                                                                                                  |           |                         |                              |        |                        | <b>10,53</b>     |

## II. Activitatea de cercetare

II.1. Articole stiintifice originale in extenso ca autor

**Total II.1: 4,282**

**Nota: AIS inainte de 2007** <http://www.eigenfactor.org/>; **AIS dupa de 2007 - Web of Science**

|   | Lucrare                                                                                                                                                                                                                                                                      | an   | N | Nef | Revista                                                            | AIS   | I     |
|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|-----|--------------------------------------------------------------------|-------|-------|
| 1 | I.Stamatin, <b>Anca Dumitru</b> , M. J. Bucknum, V. Ciupina and G.Prodan, Silicon Dicarbide Synthesis, Molecular Crystals and Liquid Crystals 2004, 417: 167 – 175                                                                                                           | 2004 | 5 | 5   | Molecular Crystals and Liquid Crystals                             | 0,17  | 0,034 |
| 2 | <b>A. Dumitru</b> , A. Morozan, C. Mirea, D. Mihaiescu, C. Pananiotu, V. Ciupina, I. Stamatin, Inorganic copolymer based on sylanones and ferrocene monomers, precursors for advanced nanostructured ceramics, Composites Science and Technology, 2005, Vol. 65 (5): 713-717 | 2005 | 7 | 6   | Composites Science and Technology                                  | 1,1   | 0,183 |
| 3 | I.Stamatin, A. Morozan, <b>A. Dumitru</b> , S. Vulpe, Highly oriented carbon ribbons for advanced multifunctional materials engineering, Fullerenes, Nanotubes and Carbon Nanostructures, 2005, 13 (S1): 543-551                                                             | 2005 | 4 | 4   | Fullerenes, Nanotubes and Carbon Nanostructures                    | 0,22  | 0,055 |
| 4 | C. Nastase, F. Nastase, <b>A. Dumitru</b> , M. Ionescu, and Ioan Stamatin, Thin film composites of nanocarbons-polyaniline obtained by plasma polymerization technique, Composites Part A: Applied Science and Manufacturing, 2005, 36 (4):481-485                           | 2005 | 5 | 5   | Composites Part A: Applied Science and Manufacturing               | 0,8   | 0,160 |
| 5 | <b>A. Dumitru</b> , V. Ciupina, I. Stamatin, G. Prodan, A. Morozan, C. Mirea, Plasma polymerization of ferrocene with silane and silazane monomers for design of nanostructured magnetic ceramics, Journal of Optoelectronics and Advanced Materials, 2006, 8 (1):50-55      | 2006 | 6 | 5,5 | Journal of Optoelectronics and Advanced Materials                  | 0,13  | 0,023 |
| 6 | I. Stamatin, A. Morozan, K. Scott, <b>A. Dumitru</b> , S. Vulpe, F. Nastase, Hybrid membranes for fuel cells based on nanometer YSZ and polyacrylonitrile matrix, Journal of Membrane Science, 2006, 227 (1-2):1-6                                                           | 2006 | 6 | 5,5 | Journal of Membrane Science                                        | 1,0   | 0,181 |
| 7 | I. Stamatin, A. Morozan, <b>A. Dumitru</b> , V. Ciupina, G. Prodan, J. Niewolski, H. Figiel, The synthesis of multi-walled carbon nanotubes (MWNT) by catalytic pyrolysis of the phenol-formaldehyde resins, Physica E, 2007, 37(1-2):44-48                                  | 2007 | 7 | 6   | Physica E-Low-Dimensional Systems & Nanostructures                 | 0,34  | 0,056 |
| 8 | <b>A. Dumitru</b> , I. Stamatin, A. Morozan, C.Mirea, V. Ciupina, Si-C-N-Fe nanostructured ceramics from inorganic polymer precursors obtained by plasma                                                                                                                     | 2007 | 5 | 5   | Materials Science and Engineering: C-Biomimetic and Supramolecular | 0,564 | 0,112 |

|    |                                                                                                                                                                                                                                                                                                                                       |      |    |     |                                                                             |       |       |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----|-----|-----------------------------------------------------------------------------|-------|-------|
|    | polymerization, Materials Science and Engineering: C, 2007, C27:1331-1337                                                                                                                                                                                                                                                             |      |    |     | Systems                                                                     |       |       |
| 9  | A. Moroza, H. Figiel, J. Żukrowski, E. Japa, W. Tokarz, <b>A. Dumitru</b> , I. Stamatina, Structure and magnetic properties of nanoparticles trapped in a carbon matrix along with the catalytic growth of carbon nanotubes, Materials Science and Engineering: C, 2007, C27:1167-1170                                                | 2007 | 7  | 6   | Materials Science and Engineering: C- Biomimetic and Supramolecular Systems | 0,564 | 0,094 |
| 10 | A. Moroza, I. Stamatina, L. Stamatina, <b>A. Dumitru</b> , K. Scott, Carbon electrodes for microbial fuel cells, Journal of Optoelectronics and Advanced Materials, 2007, 9(1): 221 – 224                                                                                                                                             | 2007 | 5  | 5   | Journal of Optoelectronics and Advanced Materials                           | 0,161 | 0,032 |
| 11 | A. Moroza, L. Stamatina, F. Nastase, <b>A. Dumitru</b> , S. Vulpe, C. Nastase, I. Stamatina, K.Scott, The biocompatibility microorganisms-carbon nanostructures for applications in microbial fuel cells, physica status solidi (a)- applications and materials science, 2007, 204 (6): 1797-1803                                     | 2007 | 8  | 6,5 | physica status solidi (a)-Applications and Materials Science                | 0,471 | 0,072 |
| 12 | <b>A. Dumitru</b> , A. Moroza, I. Stamatina, V. Danciu, C. Cotet, Correlation of different carbon support and catalytic activity for Pt based catalyst, Journal of Optoelectronic and Advanced Materials, 2008, 10 (4): 904-906                                                                                                       | 2008 | 5  | 5   | Journal of Optoelectronics and Advanced Materials                           | 0,113 | 0,022 |
| 13 | <b>A. Dumitru</b> , A. Moroza, M. Ghiurea, K. Scott, S. Vulpe, Biofilm growth from wastewater on MWNTs and carbon aerogels, physica status solidi (a) – applications and materials science, 2008, 205 (6):1484-1487                                                                                                                   | 2008 | 5  | 5   | physica status solidi (a)- Applications and Materials Science               | 0,449 | 0,089 |
| 14 | C. Nastase, <b>A. Dumitru</b> , F. Nastase, A. Moroza, S. Vulpe, D. Batalu, Comparative study of deep-coating and plasma processing PMMA thin films; Journal of Optoelectronics and Advanced Materials, 2010, 12(4): 944-947                                                                                                          | 2010 | 6  | 5,5 | Journal of Optoelectronics and Advanced Materials                           | 0,113 | 0,02  |
| 15 | M. Elisa, B.A.Sava, R. Iordanescu, I. Feraru, C. Vasiliu, M. Calin, A. Diaconu, L.D. Ursu, L. Boroica, Z. Plaiasu, F. Nastase, C. Nastase, <b>A. Dumitru</b> , Obtaining and characterization of calcium/magnesium/iron lithium phosphate glasses, Optoelectronics and Advanced Materials, Rapid Communications, 2010, 4(9):1301-1303 | 2010 | 13 | 9   | Optoelectronics and Advanced Materials, Rapid Communications                | 0,078 | 0,008 |
| 16 | T. Sandu, A. Sarbu, F. Constantin, E. Ocnaru, S. Vulpe, <b>A. Dumitru</b> and H. Iovu, Polyphenol oxidase immobilization on functionalized polypyrrole, Revue Roumaine de Chimie, 2011, 56(9):875-882                                                                                                                                 | 2011 | 7  | 6   | Revue Roumaine de Chimie                                                    | 0,065 | 0,01  |
| 17 | C. Nastase, <b>A Dumitru</b> , V. Barna, F. Nastase,                                                                                                                                                                                                                                                                                  | 2013 | 4  | 4   | Digest Journal of                                                           | 0,209 | 0,052 |

|    |                                                                                                                                                                                                                                                                                                               |      |    |     |                                                                                                             |       |       |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----|-----|-------------------------------------------------------------------------------------------------------------|-------|-------|
|    | Para-phenylene derivatives obtained by plasma polymerization technique, Digest Journal of Nanomaterials and Biostructures, 2013, 8(4):1811-1818.                                                                                                                                                              |      |    |     | Nanomaterials and Biostructures                                                                             |       |       |
| 18 | <b>A. Dumitru</b> , M. Mamlouk, K.Scott, Effect of different chemical modification of carbon nanotubes for the oxygen reduction reaction in alkaline media, <i>Electrochimica Acta</i> , 2014, 135:428 – 438                                                                                                  | 2014 | 3  | 3   | Electrochimica Acta                                                                                         | 0,886 | 0,295 |
| 19 | M.Visan, C.G.Panaiotu, C.Necula, <b>A. Dumitru</b> , Palaeomagnetism of the Upper Miocene- Lower Pliocene lavas from the East Carpathians: contribution to the paleosecular variation of geomagnetic field, Scientific Reports,2016, 6:23411                                                                  | 2016 | 4  | 4   | Scientific Reports                                                                                          | 1,484 | 0,371 |
| 20 | C.G. Panaiotu, D. Dimofte, C. Necula, <b>A. Dumitru</b> , I. Seghedi, R.-G. Popa, Revised paleosecular variation from quaternary lava flows from the East Carpathians, Romanian Reports in Physics, 2016, 68(1):416-424                                                                                       | 2016 | 6  | 5,5 | Romanian Reports in Physics                                                                                 | 0,242 | 0,044 |
| 21 | A. M. Grumezescu, <b>Anca Dumitru</b> , S. Jinga, Advanced nano- and bio- materials: A pharmaceutical approach, International Journal of Pharmaceutics, 510 (2016) 2: pp 407-408                                                                                                                              | 2016 | 3  | 3   | International Journal of Pharmaceutics                                                                      | 0,766 | 0,255 |
| 22 | <b>A.Dumitru</b> , S. Vulpe, A. Radu, S. Antohe, Influence of nitrogen environment on the performance of conducting polymers/CNTs nanocomposite modified anodes for microbial fuel cells (MFCs), Romanian Journal of Physics, 2018, 63(3-4),605                                                               | 2018 | 4  | 4   | Romanian Journal of Physics                                                                                 | 0,208 | 0,052 |
| 23 | V. Purcar, V. Rădițoiu, <b>A. Dumitru</b> , C.-A.Nicolae, A. N. Frone, M.Anastasescu, A. Rădițoiu, M. F. Raduly, R. A.Gabor, Simona Căprărescu Antireflective coating based on TiO2 nanoparticles modified with coupling agents via acid-catalysed sol-gel method, Applied Surface Science, 2019 487: 819-824 | 2019 | 10 | 7,5 | Applied Surface Science                                                                                     | 0,772 | 0,102 |
| 24 | S. Iftimie and <b>A. Dumitru</b> , Enhancing the performance of microbial fuel cells (MFCs) with nitrophenyl modified carbon nanotubes based anodes, Applied Surface Science, 2019, 492: 661-668                                                                                                              | 2019 | 2  | 2   | Applied Surface Science                                                                                     | 0,772 | 0,386 |
| 25 | S. Iftimie, C. Bradu and <b>A. Dumitru</b> , Carbon nanotubes and carbonized polyaniline nanostructures as 3D modified anode for microbial fuel cells, Proceedings of the Romanian Academy-Series A: Mathematics, Physics, Technical Sciences, Information Science 2019, 20(1):45-50                          | 2019 | 3  | 3   | Proceedings of the Romanian Academy-Series A: Mathematics, Physics, Technical Sciences, Information Science | 0,181 | 0,06  |
| 26 | C.Locovei, D.Coman, A.Radu, L.Ion, V.A.Antohe, N.Vasile, <b>A.Dumitru</b> , S.Iftimie, S.Antohe, Physical properties of Cu and Dy                                                                                                                                                                             | 2019 | 9  | 7   | Thin Solid Film                                                                                             | 0,329 | 0,047 |

|    |                                                                                                                                                                                                                                                                                                          |      |    |     |                                                   |       |       |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----|-----|---------------------------------------------------|-------|-------|
|    | co-doped ZnO thin films prepared by radio frequency magnetron sputtering for hybrid organic/inorganic electronic devices, Thin Solid Films, 2019, 685:379-384                                                                                                                                            |      |    |     |                                                   |       |       |
| 27 | A. Radu, C. Locovei, V.A.Antohe, M.Socol, D. Coman, M. Manica, <b>A. Dumitru</b> , L.Dan, C.Radu, A.M.Raduta, L.Ion, S.Iftimie, S.Antohe, Effects of annealing on the physical properties of ito thin films grown by radio frequency, Digest Journal of Nanomaterials and Biostructures, 2020, 3:679-687 | 2020 | 13 | 9   | Digest Journal of Nanomaterials and Biostructures | 0,131 | 0,014 |
| 28 | C. Locovei, A.-L. Chiriac, A. Miron, S. Iftimie, V.-A.Antohe, A. Sarbu and <b>A. Dumitru</b> , Synthesis of titanium nitride via hybrid nanocomposites based on TiO2/acrylonitrile, Scientific Reports, 2021, 11(1) 5055                                                                                 | 2021 | 7  | 6   | Scientific Reports                                | 1,208 | 0,201 |
| 29 | S. M. Avramescu, I. Fierascu, R. C. Fierascu, R. I. Brazdis, A. V. Nica, C. Butean, E. A. Olaru, S. Ulinici, M. N. Verziu, <b>A. Dumitru</b> , Removal of paracetamol from aqueous solutions by photocatalytic ozonation over TiO2 – MexOy thin films, Nanomaterials, 2022, 12, 613                      | 2022 | 10 | 7,5 | Nanomaterials                                     | 0,712 | 0,094 |
| 30 | I. Lascu, C. Locovei, C. Bradu, C. Gheorghiu, A. M. Tanase and <b>A. Dumitru</b> , Polyaniline-Derived Nitrogen-Containing Carbon Nanostructures with Different Morphologies as Anode Modifier in Microbial Fuel Cells, International Journal of Molecular Sciences 2022, 23: 11230.                     | 2022 | 6  | 5,5 | International Journal of Molecular Sciences       | 1,03  | 0,187 |
| 31 | A. V. Nica, E. A. Olaru, C. Bradu, <b>A. Dumitru</b> , S. M. Avramescu, Catalytic ozonation of ibuprofen in aqueous media over polyaniline derived nitrogen containing carbon nanostructures, Nanomaterials, 2022, 12(19)3468                                                                            | 2022 | 5  | 5   | Nanomaterials                                     | 0,712 | 0,142 |
| 32 | <b>A.Dumitru</b> , A. Dinu, I.Iurescu, S.Toader, Investigation of Polypyrrole/TiO2 and polypyrrole WO3 nanocomposites a anode modifier in salt bridge microbial fuel cell using municipal wastewater, Romanian Reports in Physics, 2024, 76(1): 502                                                      | 2024 | 4  | 4   | Romanian Reports in Physics                       | 0,184 | 0,046 |
| 33 | <b>A.Dumitru</b> , Electroctalytic activity towards ORR correlated with synthesis method and nitrogen functionality of polyaniline derived nitrogen doped carbon materials, Romanian Reports 2025, 77:501                                                                                                | 2025 | 1  | 1   | Romanian Reports in Physics                       | 0,184 | 0,184 |
| 34 | E. Blanzeanu, M. Marin, M. N. Verziu, <b>A. Dumitru</b> , B. S. Vasile, C. Stavarache, D.-E. Cozorici, R. Luque, C. Zaharia, I.-C. Radu, Chitosan-Polylactic Acid                                                                                                                                        | 2025 | 10 | 7,5 | Advanced Composites and Hybrid Materials          | 2,506 | 0,334 |

|              |                                                                                                                                                                                                                                                                                            |      |   |   |                           |       |              |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|---|---------------------------|-------|--------------|
|              | Composites: From Seafood Waste to Advanced Functional Materials for 3D Printing, Advanced Composites and Hybrid Materials, 2025 8:66                                                                                                                                                       |      |   |   |                           |       |              |
| 35           | I. Lascu, C. C. Gheorghiu, I. C. Bucur, A.-M. Tanase and <b>A. Dumitru</b> , Influence of polypyrrole-derived nitrogen-doped carbon nanostructure morphology on the microbial composition of anodic biofilms and microbial fuel cell performance, Surfaces and Interfaces, 2025,56: 105586 | 2025 | 5 | 5 | Surfaces and Interfaces   | 0,777 | 0,155        |
| 36           | M. Taha Sultan, <b>A. Dumitru</b> , E. Fakhri, R. Brophy, A. Manolescu, S.T. Ingvarsson and H. Gudfinur Svavarsson, Fabrication and application of SiNWs based PANI:MO <sub>x</sub> heterostructures for human respiratory monitoring, Journal of Semiconductors, 2025, 46(3) 032101       | 2025 | 7 | 6 | Journal of Semiconductors | 0,660 | 0,110        |
| <b>Total</b> |                                                                                                                                                                                                                                                                                            |      |   |   |                           |       | <b>4,282</b> |

## II. 2. Articole stiintifice originale in extensor ca prim autor sau autor corespondent

**Total : 9,982**

| Nr. crt. | Articole stiintifice originale in extensor ca prim autor sau autor corespondent                                                                                                                                                                                              | an   | Revista                                                                     | AIS   | P     |
|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------------------------------------------------------------------------|-------|-------|
| 1        | <b>A. Dumitru</b> , A. Morozan, C. Mirea, D. Mihaiescu, C. Pananiotiu, V. Ciupina, I. Stamatina, Inorganic copolymer based on silanes and ferrocene monomers, precursors for advanced nanostructured ceramics, Composites Science and Technology, 2005, Vol. 65 (5): 713-717 | 2005 | Composites Science and Technology                                           | 1,1   | 1,1   |
| 2        | <b>A. Dumitru</b> , V. Ciupina, I. Stamatina, G. Prodan, A. Morozan, C. Mirea, Plasma polymerization of ferrocene with silane and silazane monomers for design of nanostructured magnetic ceramics, Journal of Optoelectronics and Advanced Materials, 2006, 8 (1):50-55     | 2006 | Journal of Optoelectronics and Advanced Materials                           | 0,13  | 0,13  |
| 3        | <b>A. Dumitru</b> , I. Stamatina, A. Morozan, C. Mirea, V. Ciupina, Si-C-N-Fe nanostructured ceramics from inorganic polymer precursors obtained by plasma polymerization, Materials Science and Engineering: C, 2007, C27:1331-1337                                         | 2007 | Materials Science and Engineering: C- Biomimetic and Supramolecular Systems | 0,564 | 0,564 |
| 4        | <b>A. Dumitru</b> , A. Morozan, I. Stamatina, V. Danciu, C. Cotet, Correlation of different carbon support and catalytic activity for Pt based catalyst, <i>Journal of Optoelectronic and Advanced Materials</i> , 2008, 10 (4): 904-906                                     | 2008 | Journal of Optoelectronics and Advanced Materials                           | 0,113 | 0,113 |
| 5        | <b>A. Dumitru</b> , A. Morozan, M. Ghiurea, K. Scott, S. Vulpe, Biofilm growth from wastewater on MWNTs and carbon aerogels, <i>physica status solidi (a)</i> – applications and materials science, 2008, 205 (6):1484-1487                                                  | 2008 | physica status solidi (a)                                                   | 0,449 | 0,449 |

|    |                                                                                                                                                                                                                                                                                                     |      |                                                                                                             |       |       |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------------------------------|-------|-------|
| 6  | <b>A. Dumitru</b> , M. Mamlouk, K.Scott, Effect of different chemical modification of carbon nanotubes for the oxygen reduction reaction in alkaline media, <i>Electrochimica Acta</i> , 2014, 135:428 – 438                                                                                        | 2014 | Electrochimica Acta                                                                                         | 0,886 | 0,886 |
| 7  | <b>A.Dumitru</b> , S. Vulpe, A. Radu, S. Antohe, Influence of nitrogen environment on the performance of conducting polymers/CNTs nanocomposite modified anodes for microbial fuel cells (MFCs), <i>Romanian Journal of Physics</i> , 2018, 63(3-4),605                                             | 2018 | Romanian Journal of Physics                                                                                 | 0,208 | 0,208 |
| 8  | V. Purcar, V. Rădițoiu, <b>A. Dumitru</b> , C.-A.Nicolae, A. N. Frone, M.Anastasescu, A. Rădițoiu, M. F. Raduly, R. A.Gabor, Antireflective coating based on TiO2 nanoparticles modified with coupling agents via acid-catalysed sol-gel method, <i>Applied Surface Science</i> , 2019 487: 819-824 | 2019 | Applied Surface Science                                                                                     | 0,772 | 0,772 |
| 9  | S. Iftimie and <b>A. Dumitru</b> , Enhancing the performance of microbial fuel cells (MFCs) with nitrophenyl modified carbon nanotubes based anodes, <i>Applied Surface Science</i> , 2019, 492: 661-668                                                                                            | 2019 | Applied Surface Science                                                                                     | 0,772 | 0,772 |
| 10 | S. Iftimie, C. Bradu and <b>A. Dumitru</b> , Carbon nanotubes and carbonized polyaniline nanostructures as 3D modified anode for microbial fuel cells, <i>Proceedings of the Romanian Academy-Series A: Mathematics, Physics, Technical Sciences, Information Science</i> 2019, 20(1):45-50         | 2019 | Proceedings of the Romanian Academy-Series A: Mathematics, Physics, Technical Sciences, Information Science | 0,181 | 0,181 |
| 11 | C. Locovei, A.-L. Chiriac, A. Miron, S. Iftimie, V.-A.Antohe, A. Sarbu and <b>A. Dumitru</b> , Synthesis of titanium nitride via hybrid nanocomposites based on TiO2/acrylonitrile, <i>Scientific Reports</i> , 2021, 11(1) 5055                                                                    | 2021 | Scientific Reports                                                                                          | 1,208 | 1,208 |
| 12 | S. M. Avramescu, I. Fierascu, R. C. Fierascu,R. I. Brazdis, A. V. Nica, C. Butean, E. A. Olaru,S. Ulinici, M. N. Verziu, <b>A. Dumitru</b> , Removal of paracetamol from aqueous solutions by photocatalytic ozonation over TiO2 – MexOy thin films, <i>Nanomaterials</i> , 2022, 12, 613           | 2022 | Nanomaterials                                                                                               | 0,712 | 0,712 |
| 13 | I. Lascu, C. Locovei, C. Bradu, C. Gheorghiu, A. M. Tanase and <b>A. Dumitru</b> , Polyaniline-Derived Nitrogen-Containing Carbon Nanostructures with Different Morphologies as Anode Modifier in Microbial Fuel Cells, <i>International Journal of Molecular Sciences</i> 2022, 23: 11230.         | 2022 | International Journal of Molecular Sciences                                                                 | 1,03  | 1,03  |
| 14 | A. V. Nica, E. A. Olaru, C. Bradu, <b>A. Dumitru</b> , S. M. Avramescu, Catalytic ozonation of ibuprofen in aqueous media over polyaniline derived nitrogen containing carbon nanostructures, <i>Nanomaterials</i> , 2022, 12(19)3468                                                               | 2022 | Nanomaterials                                                                                               | 0,712 | 0,712 |
| 15 | <b>A.Dumitru</b> , A. Dinu, I.Iurescu, S.Toader,                                                                                                                                                                                                                                                    | 2024 | Romanian Reports in                                                                                         | 0,184 | 0,184 |

|              |                                                                                                                                                                                                                                                                                                     |      |                             |       |              |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------------------------|-------|--------------|
|              | Investigation of Polypyrrole/TiO <sub>2</sub> and polypyrrole WO <sub>3</sub> nanocomposites a anode modifier in salt bridge microbial fuel cell using municipal wastewater, <i>Romanian Reports in Physics</i> , 2024, 76(1): 502                                                                  |      | Physics                     |       |              |
| 16           | <b>A.Dumitru</b> , Electroalytic activity towards ORR correlated with synthesis method and nitrogen functionality of polyaniline derived nitrogen doped carbon materials, <i>Romanian Reports</i> 2025, 77:501                                                                                      | 2025 | Romanian Reports in Physics | 0,184 | 0,184        |
| 17           | I. Lascu, C. C. Gheorghiu, I. C. Bucur, A.-M. Tanase and <b>A. Dumitru</b> , Influence of polypyrrole-derived nitrogen-doped carbon nanostructure morphology on the microbial composition of anodic biofilms and microbial fuel cell performance, <i>Surfaces and Interfaces</i> , 2025, 56: 105586 | 2025 | Surfaces and Interfaces     | 0,777 | 0,777        |
| <b>Total</b> |                                                                                                                                                                                                                                                                                                     |      |                             |       | <b>9,982</b> |

### III. Recunoasterea impactului activitatii

III.1. Citari in reviste stiintifice cu factor de impact care se regasesc in InCites Journal Citations Reports sau in carti in edituri recunoscute Web of Science.

**Total III.1= 96,883**

| Nr | Lucrare                                                                                                                                                                                                                                                                              | an   | N | Nef  | Ci | Ci/Nefi |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|------|----|---------|
| 1  | I.Stamatin, Anca Dumitru, M. J. Bucknum, V. Ciupina and G.Prodan, "Silicon Dicarbide Synthesis", <i>Molecular Crystals and Liquid Crystals</i> 417, 167 – 175, 2004                                                                                                                  | 2004 | 5 | 5    | 4  | 0,8     |
| 2  | C. Nastase, F. Nastase, A. Dumitru, M. Ionescu, and Ioan Stamatin, Thin film composites of nanocarbons-polyaniline obtained by plasma polymerization technique, <i>Composites Part A: Applied Science and Manufacturing</i> , vol .36, no.4, 481-485, 2005                           | 2005 | 5 | 5    | 36 | 7,2     |
| 3  | I.Stamatin, A. Morozan, A. Dumitru, S. Vulpe, Highly oriented carbon ribbons for advanced multifunctional materials engineering, <i>Fullerenes, Nanotubes and Carbon Nanostructures</i> , Vol.13 (S1), pp. 543-551, 2005                                                             | 2005 | 4 | 4    | 2  | 0,5     |
| 4  | A. Dumitru, A. Morozan, C. Mirea, D. Mihaiescu, C. Pananiotu, V. Ciupina, I. Stamatin, Inorganic copolymer based on sylanes and ferrocene monomers, precursors for advanced nanostructured ceramics, <i>Composites Science and Technology</i> , Vol. 65 (No. 5), pp. 713-717, 2005   | 2005 | 7 | 6    | 7  | 1,166   |
| 5  | A. Dumitru, V. Ciupina, I. Stamatin, G. Prodan, A. Morozan, C. Mirea, Plasma polymerization of ferrocene with silane and silazane monomers for design of nanostructured magnetic ceramics, <i>Journal of Optoelectronics and Advanced Materials</i> , Vol. 8 (No. 1), pp.50-55, 2006 | 2006 | 6 | 5.5  | 8  | 1,454   |
| 6  | I. Stamatin, A. Morozan, K. Scott, A. Dumitru, S. Vulpe, F. Nastase, Hybrid membranes for fuel cells based on nanometer YSZ and polyacrylonitrile matrix, <i>Journal of Membrane Science</i> , Vol. 227 (No. 1-2), pp. 1-6, 2006                                                     | 2006 | 6 | 5.5  | 7  | 1,272   |
| 7  | A. Morozan, I. Stamatin, L. Stamatin, A. Dumitru, K. Scott,                                                                                                                                                                                                                          | 2007 | 5 | 5.00 | 13 | 2,6     |

|    |                                                                                                                                                                                                                                                                                                                                                                                                                           |      |    |      |     |        |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----|------|-----|--------|
|    | Carbon electrodes for microbial fuel cells, Journal of Optoelectronics and Advanced Materials, Vol. 9(1), pp. 221 – 224, 2007                                                                                                                                                                                                                                                                                             |      |    |      |     |        |
| 8  | I. Stamatina, A. Morozan, A. Dumitru, V. Ciupina, G. Prodan, J. Niewolski, H. Figiel, The synthesis of multi-walled carbon nanotubes (MWNT) by catalytic pyrolysis of the phenol-formaldehyde resins, Physica E, Vol. 37(1-2), pp. 44-48, 2007                                                                                                                                                                            | 2007 | 7  | 6    | 104 | 17,333 |
| 9  | A. Morozan, L. Stamatina, F. Nastase, A. Dumitru, S. Vulpe, C. Nastase, I. Stamatina, K.Scott, The biocompatibility microorganisms-carbon nanostructures for applications in microbial fuel cells, physica status solidi (a), 204 (6), pp. 1797-1803, 2007                                                                                                                                                                | 2007 | 8  | 6.5  | 32  | 4,923  |
| 10 | A. Morozan, H. Figiel, J. Żukrowski, E. Japa, W. Tokarz, A. Dumitru, I. Stamatina, Structure and magnetic properties of nanoparticles trapped in a carbon matrix along with the catalytic growth of carbon nanotubes, Materials Science and Engineering: C, C27, pp. 1167-1170, 2007                                                                                                                                      | 2007 | 7  | 6    | 1   | 0,166  |
| 11 | A. Dumitru, I. Stamatina, A. Morozan, C.Mirea, V. Ciupina, Si-C-N-Fe nanostructured ceramics from inorganic polymer precursors obtained by plasma polymerization, Materials Science and Engineering: C, C27, 1331-1337, 2007                                                                                                                                                                                              | 2007 | 5  | 5.00 | 12  | 2,4    |
| 12 | A. Andronie, A. Morozan, C. Nastase, F. Nastase, A. Dumitru, S. Vulpe, A. Vaseashta, I. Stamatina, CsHSO <sub>4</sub> /nanooxide polymer membrane for fuel cell, Functionalized Nanoscale Materials, Devices and Systems, NATO Science Series B: Physics and Biophysics, Vaseashta, A. K; Mihailescu, I. N. (Eds.), XIV, 490 p., ISBN: 978-1-4020-8902-2, pp.415-418, 2008                                                | 2008 | 8  | 6.5  | 5   | 0,769  |
| 13 | A. Morozan, A. Dumitru, C. Mirea, I Stamatina, F. Nastase, A. Andronie, S. Vulpe, C. Nastase, A. Vaseashta, Synthesis and characterization of carbon supported Pd and PtPd catalysts for DMFCs, in: Functionalized Nanoscale Materials, Devices and Systems, NATO Science Series B: Physics and Biophysics, Editor(s): A.Vaseashta, I. Mihailescu, Publisher: Springer, pp.445-448, 2008, ISBN: 978-1-4020-8902-2, , 2008 | 2008 | 9  | 7    | 1   | 0,142  |
| 14 | Sava, B.A., Diaconu, A., Ursu, L.-D., Boroica, L., Elisa, M., Grigorescu, C., Vasiliu, C., (...), Dumitru A, Ecological silicate glasses, Advanced Materials Research 39-40, pp.667-670                                                                                                                                                                                                                                   | 2008 | 11 | 8    | 2   | 0,25   |
| 15 | A. Dumitru, A. Morozan, I. Stamatina, V. Danciu, C. Cotet, Correlation of different carbon support and catalytic activity for Pt based catalyst, Journal of Optoelectronic and Advanced Materials, Vol. 10 (4), 904-906, 2008                                                                                                                                                                                             | 2008 | 5  | 5    | 1   | 0,2    |
| 16 | A. Dumitru, A. Morozan, M. Ghiurea, K. Scott, S. Vulpe, Biofilm growth from wastewater on MWNTs and carbon aerogels, physica status solidi (a) – applications and materials science, Vol. 205 (6), 1484-1487, 2008                                                                                                                                                                                                        | 2008 | 5  | 5.00 | 16  | 3,2    |
| 17 | A.Morozan, F. Nastase, A. Dumitru, C.Nastase, S. Vulpe, M. Filipescu, Plasma processing of polypyrrole-heparin thin films on titanium substrates for biomedical applications, Physica Status Solidi C- Current Topics in Solid State Physics, Vol6, No.10, 2009                                                                                                                                                           | 2009 | 6  | 5.5  | 5   | 0,909  |
| 18 | C. Nastase, A. Dumitru, F. Nastase, A. Morozan, S. Vulpe, D. Batalu, Comparative study of deep-coating and plasma processing PMMA thin films; Journal of Optoelectronics and                                                                                                                                                                                                                                              | 2010 | 6  | 5.5  | 3   | 0,545  |

|    |                                                                                                                                                                                                                                                                                                                                      |      |    |      |    |       |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----|------|----|-------|
|    | Advanced Materials; 12(4); 944-947; 2010                                                                                                                                                                                                                                                                                             |      |    |      |    |       |
| 19 | Boroica, Z. Plaiasu, F. Nastase, C. Nastase, A. Dumitru, M. Elisa, B.A.Sava, R. Iordanescu, I. Feraru, C. Vasiliu, M. Calin, A. Diaconu, L.D. Ursu, L., Obtaining and characterization of calcium/magnesium/iron lithium phosphate glasses, 2010, Optoelectronics and Advanced Materials, Rapid Communications 4 (9) , pp. 1301-1303 | 2010 | 13 | 9    | 12 | 1,333 |
| 20 | Teodor Sandu, Andrei Sarbu, Floriana Constantin, Emilia Ocnaru, Silviu Vulpe, Anca Dumitru and Horia Iovu, Polyphenol oxidase immobilization on functionalized polypyrrole, Revue Roumanie de Chimie, 2011, 56(9)                                                                                                                    | 2011 | 7  | 6    | 5  | 0,833 |
| 21 | C Nastase, A Dumitru, V Barna, F Nastase, Para-phenylene derivatives obtained by plasma polymerization technique, Digest Journal of Nanomaterials and Biostructures, Digest Journal of Nanomaterials and Biostructures, 10/2013; 8(4):1811-1818.                                                                                     | 2013 | 4  | 4    | 3  | 0,75  |
| 22 | Anca Dumitru, M. Mamlouk, K.Scott, Effect of different chemical modification of carbon nanotubes for the oxygen reduction reaction in alkaline media, Electrochimica Acta, ISSN 0013-4686, 07/2014, Volume 135, pp. 428 – 438                                                                                                        | 2014 | 3  | 3.00 | 33 | 11,00 |
| 23 | C.G. Panaiotu , D. Dimofte , C. Necula , A. Dumitru , I. Seghedi, R.-G. Popa, Revised paleosecular variation from quaternary lava flows from the East Carpathians, Romanian Reports in Physics 68(1):416-424 · January 2016                                                                                                          | 2016 | 6  | 5.5  | 4  | 0,727 |
| 24 | M.Visan, C.G.Panaiotu, C.Necula, A. Dumitru, Palaeomagnetism of the Upper Miocene- Lower Pliocene lavas from the East Carpathians: contribution to the paleosecular variation of geomagnetic field, Scientific Reports (2016) 6:23411                                                                                                | 2016 | 4  | 4    | 7  | 1,75  |
| 25 | A.Dumitru, S. Vulpe, A. Radu, S. Antohe, Influence of nitrogen environment on the performance of conducting polymers/CNTs nanocomposite modified anodes for microbial fuel cells (MFCs), Romanian Journal of Physics, 2018, 63(3-4),605                                                                                              | 2018 | 4  | 4    | 17 | 4,25  |
| 26 | V. Purcar, V. Rădițoiu, A. Dumitru, C.-A.Nicolae, A. N. Frone, M.Anastasescu, A. Rădițoiu, M. F. Raduly, R. A.Gabor, S. Caprarescu Antireflective coating based on TiO2 nanoparticles modified with coupling agents via acid-catalysed sol-gel method, Applied Surface Science, 2019 487: 819-824                                    | 2019 | 10 | 7,5  | 54 | 7,2   |
| 27 | S. Iftimie, C. Bradu and A. Dumitru, Carbon nanotubes and carbonized polyaniline nanostructures as 3D modified anode for microbial fuel cells, Proceedings of the Romanian Academy-Series A: Mathematics, Physics, Technical Sciences, Information Science 2019, 20(1):45-50                                                         | 2019 | 3  | 3    | 2  | 0,666 |
| 28 | S. Iftimie and A. Dumitru, Enhancing the performance of microbial fuel cells (MFCs) with nitrophenyl modified carbon nanotubes based anodes, Applied Surface Science, 2019, 492: 661-668                                                                                                                                             | 2019 | 2  | 2    | 30 | 15    |
| 29 | C.Locovei, D.Coman, A.Radu, L.Ion, V.A.Antohe, N.Vasile, A.Dumitru, S.Iftimie, S.Antohe, Physical properties of Cu and Dy co-doped ZnO thin films prepared by radio frequency magnetron sputtering for hybrid organic/inorganic electronic devices, Thin Solid Films, Volume 685, 1 September 2019, Pages 379-384                    | 2019 | 9  | 7    | 17 | 2,428 |
| 30 | A. Radu, C. Locovei, V.A.Antohe, M.Socol, D. Coman, M. Manica, A. Dumitru, L.Dan, C.Radu, A.M.Raduta, L.Ion, S.Iftimie,                                                                                                                                                                                                              | 2020 | 13 | 9    | 1  | 0,111 |

|    |                                                                                                                                                                                                                                                                                                                                      |      |    |     |   |               |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----|-----|---|---------------|
|    | S.Antohe, Effects of annealing on the physical properties of ito thin films grown by radio frequency, Digest Journal of Nanomaterials and Biostructures, 2020, 3:679-687                                                                                                                                                             |      |    |     |   |               |
| 31 | C. Locovei, A.-L. Chiriac, A. Miron, S. Iftimie, V.-A.Antohe, A. Sarbu and A. Dumitru, Synthesis of titanium nitride via hybrid nanocomposites based on TiO2/acrylonitrile, Scientific Reports, 2021, 11(1) 5055                                                                                                                     | 2021 | 7  | 6   | 4 | 0,666         |
| 32 | Sorin Marius Avramescu, Irina Fierascu, Radu Claudiu Fierascu,Roxana Ioana Brazdis, Angel Vasile Nica, Claudia Butean, Elena Alina Olaru,Sorin Ulinici, Marian Nicolae Verziu, Anca Dumitru, Removal of paracetamol from aqueous solutions by photocatalytic ozonation over TiO2 – MexOy thin films, Nanomaterials, 2022, 12(4), 613 | 2022 | 10 | 7,5 | 6 | 0,8           |
| 33 | Irina Lascu, Claudiu Locovei, Corina Bradu, Cristina Gheorghiu, Ana Maria Tanase and Anca Dumitru, Polyaniline-Derived Nitrogen-Containing Carbon Nanostructures with Different Morphologies as Anode Modifier in Microbial Fuel Cells, International Journal of Molecular Sciences, 2022, 23 (19), 11230                            | 2022 | 6  | 5,5 | 6 | 1,09          |
| 34 | Angel Vasile Nica, Elena Alina Olaru, Bradu Corina, Anca Dumitru, Sorin Marius Avramescu, Catalytic ozonation of ibuprofen in aqueous media over polyaniline derived nitrogen containing carbon nanostructures, Nanomaterials, 2022, 12(19)3468                                                                                      | 2022 | 5  | 5   | 8 | 1,6           |
| 35 | A.Dumitru, A. Dinu, I.Iurescu, S.Toader, Investigation of Polypyrrole/TiO2 and polypyrrole WO3 nanocomposites a anode modifier in salt bridge microbial fuel cell using municipal wastewater, Romanian Reports in Physics, 2024, 76(1): 502                                                                                          | 2024 | 4  | 4   | 1 | 0,25          |
| 36 | E. Blanzeanu, M. Marin, M. N. Verziu, <b>A. Dumitru</b> , B. S. Vasile, C. Stavarache, D.-E. Cozorici, R. Luque, C. Zaharia, I.-C. Radu, Chitosan-Polylactic Acid Composites: From Seafood Waste to Advanced Functional Materials for 3D Printing, Advanced Composites and Hybrid Materials, 2025 8:66                               | 2025 | 10 | 7,5 | 3 | 0,4           |
| 37 | I. Lascu, C. C. Gheorghiu, I. C. Bucur, A.-M. Tanase and <b>A. Dumitru</b> , Influence of polypyrrole-derived nitrogen-doped carbon nanostructure morphology on the microbial composition of anodic biofilms and microbial fuel cell performance, Surfaces and Interfaces, 2025,56: 105586                                           | 2025 | 5  | 5   | 1 | 0,2           |
|    | <b>Total</b>                                                                                                                                                                                                                                                                                                                         |      |    |     |   | <b>96,883</b> |

### III. 2. Indicele Hirsch (conform WOS):12

<https://www.webofscience.com/wos/woscc/citation-report/dcf26f34-48c9-441c-b19d-a967467299ca-0162b43619>

**Lista citarilor pentru fiecare articol :**

|          |                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                            |
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