

Universitatea "Babes-Bolyai" din Cluj Napoca
 Facultatea de Chimie si Inginerie Chimica
 Departamentul de Inginerie Chimica
Conf. dr. ing. Graziella Liana Turdean

**Fișa de verificare a îndeplinirii standardelor minimale
 în vederea obținerii atestatului de abilitare**

(în conformitate cu Anexa nr. 8 - COMISIA INGINERIE CHIMICĂ, INGINERIE MEDICALĂ, ȘTIINȚA MATERIALELOR ȘI NANOMATERIALE la Ordinul ministrului educației, cercetării, tineretului și sportului nr. 6.560/2012 privind aprobarea standardelor minimale necesare și obligatorii pentru conferirea titlurilor didactice din învățământul superior și a gradelor profesionale de cercetare-dezvoltare, publicat in Monitorul Oficial nr. 890 bis/27.12.2012)

	Standarde minimale (cumulative) CNATCDU	Standarde suplimentare ale UBB (+ 25% fata de cele CNATCDU)	Standarde indeplinite de candidat	% de depasire a criteriilor minimale CNATCDU cu
număr total de articole în reviste ISI (NT)	≥ 25	≥ 32	36	44 %
număr articole în reviste ISI la care candidatul este autor principal (prim autor sau autor de corespondență) (NP)	≥ 12	≥ 15	24	100 %
factor de impact cumulat * (FIC)**	≥ 16	≥ 20	33.835	111 %
număr total de citări (din baza SCOPUS) (NC)	≥ 40	≥ 50	122	200.05 %

*suma factorilor de impact ale revistelor la momentul susținerii publice a tezei de doctorat sau la momentul înscrierii la concursul pentru ocuparea unei poziții didactice.

** in acest caz in calculul FIC se tine cont de factorul de impact al revistei la care candidatul a publicat un articol ca autor principal si respectiv de factorul de impact împărțit la numarul de autori pentru revistele in care candidatul a publicat un articol în care nu este autor principal.

Lista de articole în reviste ISI (NT)

1. **Turdean G. L.** ✉, Casoni D., Sarbu C., Structure–electrochemical properties correlations of some phenol derivatives investigated by electrochemical techniques, *Journal of Iranian Chemical Society*, **2016**, 13, 945–956, doi: 10.1007/s13738-016-0810-5; **IF/2014: 1.087**.
2. Forț C. I., Coteț C. L., **Turdean G. L.**, Danciu V., *Meldola Blue Immobilised on Mesoporous Carbon Aerogel - New Electrode Material for NADH Electrocatalytic Oxidation*, *Studia Universitatis Babes-Bolyai Chemia*, **2015**, 60(3), 215-224; **IF/2014: 0.191**.
3. **Turdean G. L.** ✉, *Characterization of a Modified Graphite Electrode Obtained by Hemin Electropolymerisation*, *Studia Universitatis Babes-Bolyai Chemia*, **2015**, 60(3), 119-128; **IF/2014: 0.191**.
4. **Turdean G. L.** ✉, Fort C. I., Simon V., *In vitro short-time stability of a bioactive glass-chitosan composite coating evaluated by using electrochemical methods*, *Electrochimica Acta*, **2015**, 182, 707-714, doi: 10.1016/j.electacta.2015.09.132; **IF/2014: 4.504**.
5. Deac A. R., Cotet C. L., **Turdean G. L.**, Muresan L. M., *Carbon paste electrode modified with Bi³⁺ - impregnated carbon xerogel for Pb²⁺ determination by square wave anodic stripping voltammetry*, *Revue Roumaine de Chimie*, **2015**, 60(7-8), 697-70; **IF/2014: 0.311**.
6. Silai I. E., Fort C. I., Casoni D., **Turdean G. L.** ✉, *Epinephrine detection at Pt-nanoparticles modified graphite electrode by square-wave voltammetry*, *Revue Roumaine de Chimie*, **2015**, 60(7-8), 689-696; **IF/2014: 0.311**.
7. Cotet C. L., Lazar A., **Turdean G. L.**, Danciu V., Baia L., Popescu I. C., Fort C. I., *Bismuth doped carbon xerogel nanocomposite incorporated in chitosan matrix for voltammetric trace detection of Pb(II) and Cd(II)*, *Sensors and Actuators B-Chem.*, **2015**, 220, 712-719; **IF/2014: 4.097**.
8. Deac A. R., Coteț C. L., **Turdean G. L.**, Muresan L. M., *Determination of Cd(II) using square wave anodic stripping voltammetry at a carbon paste electrode containing Bi-impregnated carbon xerogel*, *Studia Universitatis Babes-Bolyai Chemia*, **2015**, 60(10), 203-212; **IF/2014: 0.191**.
9. Januzaj V., Mula V., **Turdean G. L.** ✉, Muresan L. M., *Composite electrodes with carbon supported Ru- nanoparticles for H₂O₂ detection*, *Acta Chimica Slovenica*, **2015**, 62, 28-34, doi: 10.17344/acsi.2014.672; **IF/2014: 0.686**.
10. **Turdean G. L.** ✉, *Electrochemical behavior of an iron substituted polyoxometalate incorporated in an electropolymerized film*, *Materiale plastice*, **2015**, 52(2), 225-229; **IF/2014: 0.824**.
11. **Turdean G. L.** ✉, Szabo G., *Nitrite detection in meat products samples by square-wave voltammetry at a new single walled carbon nanotubes - myoglobin modified electrode*, *Food Chemistry*, **2015**, 179, 235-330, <http://dx.doi.org/10.1016/j.foodchem.2015.01.106>; **IF/2014: 3.391**.
12. Mares G. M., Nicoara A., **Turdean G. L.**, Popescu I. C., *Electrochemical characterization of Au/l-cysteine/hemin modified electrode*, *Revue Roumaine de Chimie*, **2014**, 59(6-7), 613-621; **IF/2014: 0.311**.

13. Petrehele A.I.G., Rusu D., Ungureanu A., **Turdean G. L.**, Indrea E., David L., Rusu M., *Structural and physical-chemical study of new Keggin polyoxometalates with mixed addenda*, Revista de Chimie, **2014**, 65(3), 265-271; **IF/2014: 0.810**.
14. Fort C. I., Silai I. E., Casoni D., **Turdean G. L.** ✉, *Electrochemical study of isoprenaline and epinephrine at platinum-nanoparticles-chitosan modified graphite electrode*, Studia Universitatis Babes-Bolyai Chemia, **2013**, 58(4), 193-202; **IF/2014: 0.191**.
15. Silai I. E., **Turdean G. L.** ✉, Casoni D., *Electrochemical behavior of some catecholamines investigated by cyclic and square-wave voltammetry*, Studia Universitatis Babes-Bolyai Chemia, **2013**, 58(4), 203-211; **IF/2014: 0.191**.
16. Mares G. M., **Turdean G. L.** ✉, Popescu I.C., *Electrochemical behavior of the hemin modified graphite electrode for H₂O₂ detection*, Studia Universitatis Babes-Bolyai Chemia, **2013**, 58(2), 105-114; **IF/2014: 0.191**.
17. **Turdean G. L.** ✉, *Amperometric detection of glucose by electrocatalytic reduction at a copper – modified electrode*, Revue Roumaine de Chimie, **2013**, 58(9-10), 729-735; **IF/2014: 0.311**.
18. Rusu D., Tomsa A. R., **Turdean G. L.**, Cojocaru I., Băban O., Rusu M., *Synthesis and characterization of the copper (II)-substituted polyoxotungstate based on α -B-[BiW₉O₃₃]⁹⁻ units*, Revue Roumaine de Chimie, **2012**, 57(4-5), 327-336; **IF/2014: 0.311**.
19. Fort C. I., Cotet C. L., Danciu V., **Turdean G. L.**, Popescu I. C., *Fe Doped Carbon Aerogel - New Electrode Material for Electrocatalytic Reduction of H₂O₂*, Materials Chemistry and Physics, **2013**, 138(2-3), 893-898; **IF/2014: 2.259**.
20. **Turdean G. L.** ✉, Popescu I. C., *Self-assembled architecture based on triiron-substituted polyoxomolybdate anion and positively charged polymer*, Journal of Solid State Electrochemistry, **2012**, 16, 681–687, doi: 10.1007/s10008-011-1385-9; **IF/2014: 2.446**.
21. Muresan L., Gáspár S., **Turdean G. L.**, Popescu I. C., *A Simple and Fast Method for Detecting Glucose in Wines Using a Redox Polymer-Based Amperometric Biosensor*, Revista de Chimie, **2010**, 61, 126-129; **IF/2014: 0.810**.
22. Bogyá E.-S., Bâldea I., Barabás R., Csavdári A., **Turdean G. L.**, Dejeu V.-R., *Kinetic studies of sorption of copper(ii) ions onto different calcium-hydroxyapatite materials*, Studia Universitatis Babes-Bolyai Chemia, **2010**, 55, 363-373; **IF/2014: 0.191**.
23. **Turdean G. L.** ✉, Fărcaș C., Palcu A. F., Turdean M. S., *Electrochemistry of iron (III) protoporphyrin (IX) solution at graphite electrode*, Studia Universitatis Babes-Bolyai Chemia, **2008**, 53(1), 105-111; **IF/2014: 0.191**.
24. **Turdean G. L.**, Patrut A., David L., Popescu I. C., *Electrochemical behaviour of a new triiron-substituted polyoxomolybdate*, Journal of Applied Electrochemistry, **2008**, 38, 751-758; **IF/2014: 2.409**.
25. Mureșan L., **Turdean G. L.**, Popescu I. C., *Rhodium stabilized Prussian Blue–modified graphite electrodes for H₂O₂ amperometric detection*, Journal of Applied Electrochemistry, **2008**, 38, 349-355; **IF/2014: 2.409**.

26. **Turdean G. L.** ☒, Turdean M. S., *Synergetic effect of organic solvents and paraoxon on the immobilized acetylcholinesterase*, Pesticide Biochemistry and Physiology, **2008**, 90(2), 73-81; **IF/2014: 2.014.**
27. Rotariu I., **Turdean G. L.**, Kormos F., Macarovici D., Tolnai G., Felhösi I., Nagy P., Trif L., Kálmán E., *The corrosion study of ZrO₂ coatings on metals*, Materials Science Forum, **2007**, 537-538, 247-254; **IF/2007: 0.498.**
28. **Turdean G. L.** ☒, Popescu I. C., Antonella Curulli, Giuseppe Palleschi, *Iron(III) protoporphyrin IX – single-wall carbon nanotubes modified electrodes for hydrogen peroxide and nitrite detection*, Electrochimica Acta, **2006**, 51, 6435-6441; **IF/2014: 4.504.**
29. Ciocan C. A., Roşu C., **Turdean G. L.** ☒, Rusu M., *Electrochemical behaviour of a new heteropolytungstates [X₂W₂₂O₇₄(OH)₂]₁₂ with Rh(III), X = As (III), Bi(III) or Sb(III)*, Revue Roumaine de Chimie, **2004**, 49(3-4), 279-285; **IF/2014: 0.311.**
30. **Turdean G. L.** ☒, Curulli A., Popescu I. C., Roşu C., Palleschi G., *Electropolymerised architecture entrapping a trilacunary Keggin-type polyoxometalate for assembling a glucose biosensor*, Electroanalysis, **2002**, 14 (22), 1550-1557; **IF/2014: 2.138.**
31. **Turdean G. L.** ☒, Popescu I. C., Oniciu L., Thévenot D. R., *Sensitive detection of organophosphorus pesticides using a needle type amperometric acetylcholinesterase-based bioelectrode. Thiocholine electrochemistry and immobilised enzyme inhibition*, Journal of Enzyme Inhibition and Medicinal Chemistry, **2002**, 17(2), 107-115; **IF/2014: 2.332.**
32. **Turdean G. L.** ☒, Popescu I. C., Oniciu L., *Biocapteurs ampérométriques à cholinestérases pour la détermination des pesticides organophosphorés*, Canadian Journal of Chemistry, **2002**, 80, 315-331; **IF/2014: 1.061.**
33. **Turdean G. L.**, Moşneag C. S., Popescu I. C., *Biosensor based on acetylcholinesterase for acetylcholine amperometric detection at low applied potential*, ACH-Models in Chemistry, **2000**, 137(4), 519-531; **IF/2002: 0.571.**
34. **Turdean G. L.**, Oniciu L., *The influence of organic solvents on the biosensor function*, Revista de Chimie, **1998**, 49(9), 604-612; **IF/2014: 0.810.**
35. **Turdean G. L.** ☒, Popescu I. C., Oniciu L., *Biocapteur à base de glucose oxydase-phtalocyanine de Co(II)-pate de carbone pour la détection ampérométrique du glucose*, Revue Roumaine de Chimie, **1998**, 43(3), 203-208; **IF/2014: 0.311.**
36. **Turdean G. L.**, Péter I., Popescu I. C., Oniciu L., *An acetylcholinesterase amperometric microbiosensor for the detection of dipterex*, Revue Roumaine de Chimie, **1997**, 42(7), 879-883; **IF/2014: 0.311.**

Lista articole în reviste ISI la care candidatul este autor principal (prim autor sau autor de corespondență)

1. **Turdean G. L.** ✉, Casoni D., Sarbu C., Structure–electrochemical properties correlations of some phenol derivatives investigated by electrochemical techniques, *Journal of Iranian Chemical Society*, **2016**, 13, 945–956, doi: 10.1007/s13738-016-0810-5; **IF/2014: 1.087**.
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20. **Turdean G. L.** ☒, Popescu I. C., Oniciu L., *Biocapteurs ampérométriques à cholinestérases pour la détermination des pesticides organophosphorés*, Canadian Journal of Chemistry, **2002**, 80, 315-331; **IF/2014: 1.061.**
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Factor de impact cumulat

ISI paper	Principal author paper of ISI papers	Paper identification Authors, Title, Journal, Year, Volume, Pages	FI/2014	FI/no. of authors
1	1	Turdean G. L. ✉, Casoni D., Sarbu C., <i>Structure–electrochemical properties correlations of some phenol derivatives investigated by electrochemical techniques</i> , Journal of Iranian Chemical Society, 2016 , 13, 945–956, doi: 10.1007/s13738-016-0810-5	1.087	1.087
2		Forț C. I., Coteț L. C., Turdean G. L. , Danciu V., <i>Meldola Blue Immobilised on Mesoporous Carbon Aerogel - New Electrode Material for NADH Electrocatalytic Oxidation</i> , Studia Universitatis Babes-Bolyai Chemia, 2015 , 60(3), 215-224.	0.191	0.04775
3	2	Turdean G. L. ✉, <i>Characterization of a Modified Graphite Electrode Obtained by Hemin Electropolymerisation</i> , Studia Universitatis Babes-Bolyai Chemia, 2015 , 60(3), 119-128.	0.191	0.191
4	3	Turdean G. L. ✉, Fort C. I., Simon V., <i>In vitro short-time stability of a bioactive glass-chitosan composite coating evaluated by using electrochemical methods</i> , Electrochimica Acta, 2015 , 182, 707-714, doi: 10.1016/j.electacta.2015.09.132	4.504	4.504
5		Deac A. R., Cotet L. C., Turdean G. L. , Muresan L. M., <i>Carbon paste electrode modified with Bi³⁺ - impregnated carbon xerogel for Pb²⁺ determination by square wave anodic stripping voltammetry</i> , Revue Roumaine de Chimie, 2015 , 60(7-8), 697-705.	0.311	0.07775
6	4	Silai I. E., Fort C. I., Casoni D., Turdean G. L. ✉, <i>Epinephrine detection at Pt-nanoparticles modified graphite electrode by square-wave voltammetry</i> , Revue Roumaine de Chimie, 2015 , 60(7-8), 689-696.	0.311	0.311
7		Cotet L. C., Lazar A., Turdean G. L. , Danciu V., Baia L., Popescu I. C., Fort C. I., <i>Bismuth doped carbon xerogel nanocomposite incorporated in chitosan matrix for voltammetric trace detection of Pb(II) and Cd(II)</i> , Sensors and Actuators B-Chem, 2015 , 220, 712-719.	4.097	0.58528

8		Deac A. R., Coteș L. C., Turdean G. L. , Muresan L. M., <i>Determination of Cd(II) using square wave anodic stripping voltammetry at a carbon paste electrode containing Bi-impregnated carbon xerogel</i> , <i>Studia Universitatis Babes-Bolyai Chemia</i> , 2015 , 60(10), 203-212.	0.191	0.04775
9	5	Januzaj V., Mula V., Turdean G. L. ✉, Muresan L. M., <i>Composite electrodes with carbon supported Ru- nanoparticles for H₂O₂ detection</i> , <i>Acta Chimica Slovenica</i> , 2015 , 62, 28-34, doi: 10.17344/acsi.2014.672.	0.686	0.686
10	6	Turdean G. L. ✉, <i>Electrochemical behavior of an iron substituted polyoxometalate incorporated in an electropolymerized film</i> , <i>Materiale plastice</i> , 2015 , 52(2), 225-229.	0.824	0.824
11	7	Turdean G. L. ✉, Szabo G., <i>Nitrite detection in meat products samples by square-wave voltammetry at a new single walled carbon nanotubes - myoglobin modified electrode</i> , <i>Food Chemistry</i> , 2015 , 179, 235-330, http://dx.doi.org/10.1016/j.foodchem.2015.01.106 .	3.391	3.391
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17	11	Turdean G. L. ☒, <i>Amperometric detection of glucose by electrocatalytic reduction at a copper – modified electrode</i> , Revue Roumaine de Chimie, 2013 , 58(9-10), 729-735.	0.311	0.311
18		Rusu D., Tomsa A. R., Turdean G. L. , Cojocaru I., Băban O., Rusu M., <i>Synthesis and characterization of the copper (II)-substituted polyoxotungstate based on α-B-[BiW₉O₃₃]⁹⁻ units</i> , Revue Roumaine de Chimie, 2012 , 57(4-5), 327-336.	0.311	0.051833
19		Fort C. I., Cotet L. C., Danciu V., Turdean G. L. , Popescu I. C., <i>Fe Doped Carbon Aerogel - New Electrode Material for Electrocatalytic Reduction of H₂O₂</i> , Materials Chemistry and Physics, 2013 , 138(2-3), 893-898.	2.259	0.4518
20	12	Turdean G. L. ☒, Popescu I. C., <i>Self-assembled architecture based on triiron-substituted polyoxomolybdate anion and positively charged polymer</i> , Journal of Solid State Electrochemistry, 2012 , 16, 681–687, doi: 10.1007/s10008-011-1385-9.	2.446	2.446
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22		Bogya E.-S., Bâldea I., Barabás R., Csavdári A., Turdean G. L. , Dejeu V.-R., <i>Kinetic studies of sorption of copper(ii) ions onto different calcium-hydroxyapatite materials</i> , Studia Universitatis Babes-Bolyai Chemia, 2010 , 55, 363-373.	0.191	0.03183
23	13	Turdean G. L. ☒, Fărcaș C., Palcu A. F., Turdean M. S., <i>Electrochemistry of iron (III) protoporphyrin (ix) solution at graphite electrode</i> , Studia Universitatis Babes-Bolyai Chemia, 2008 , 53(1), 105-111.	0.191	0.191
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28	16	Turdean G. L. ☒, Popescu I. C., Curulli A., Palleschi G., <i>Iron(III) protoporphyrin IX – single-wall carbon nanotubes modified electrodes for hydrogen peroxide and nitrite detection</i> , Electrochimica Acta, 2006 , 51, 6435-6441.	4.504	4.504
29	17	Ciocan C. A., Roşu C., Turdean G. L. ☒, Rusu M., <i>Electrochemical behaviour of a new heteropolytungstates [X₂W₂₂O₇₄(OH)₂]₁₂ with Rh(III), X = As (III), Bi(III) or Sb(III)</i> , Revue Roumaine de Chimie, 2004 , 49(3-4), 279-285.	0.311	0.311
30	18	Turdean G. L. ☒, Curulli A., Popescu I. C., Roşu C., Palleschi G., <i>Electropolymerised architecture entrapping a trilacunary Keggin-type polyoxometalate for assembling a glucose biosensor</i> , Electroanalysis, 2002 , 14 (22), 1550-1557.	2.138	2.138
31	19	Turdean G. L. ☒, Popescu I. C., Oniciu L., Thévenot D. R., <i>Sensitive detection of organophosphorus pesticides using a needle type amperometric acetylcholinesterase-based bioelectrode. Thiocholine electrochemistry and immobilised enzyme inhibition</i> , Journal of Enzyme Inhibition and Medicinal Chemistry, 2002 , 17(2), 107-115.	2.332	2.332
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34	22	Turdean G. L. , Oniciu L., <i>The influence of organic solvents on the biosensor function</i> , Revista de Chimie, 1998 , 49(9), 604-612.	0.810	0.810

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		Total	43.676	33.835

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ISI paper	Paper identification Authors, Title, Journal, Year, Volume, Pages	No of citations	No of citations – self citation
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25	Mureșan L., Turdean G. L. , Popescu I. C., <i>Rhodium stabilized Prussian Blue-modified graphite electrodes for H₂O₂ amperometric detection</i> , Journal of Applied Electrochemistry, 2008 , 38, 349-355.	6	5
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27	Rotariu I., Turdean G. L. , Kormos F., Macarovici D., Tolnai G., Felhősi I., Nagy P., Trif L., Kálmán E., <i>The corrosion study of ZrO₂ coatings on metals</i> , Materials Science Forum, 2007 , 537-538, 247-254. Last IF from 2004.	3	3
28	Turdean G. L. ☒, Popescu I. C., Curulli A., Palleschi G., <i>Iron(III) protoporphyrin IX – single-wall carbon nanotubes modified electrodes for hydrogen peroxide and nitrite detection</i> , Electrochimica Acta, 2006 , 51, 6435-6441.	49	43
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31	Turdean G. L. ☒, Popescu I. C., Oniciu L., Thévenot D. R., <i>Sensitive detection of organophosphorus pesticides using a needle type amperometric acetylcholinesterase-based bioelectrode. Thiocholine electrochemistry and immobilised enzyme inhibition</i> , Journal of Enzyme Inhibition and Medicinal Chemistry, 2002 , 17(2), 107-115.	19	17
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33	Turdean G. L. , Moșneag C. S., Popescu I. C., <i>Biosensor based on acetylcholinesterase for acetylcholine amperometric detection at low applied potential</i> , ACH-Models in Chemistry, 2000 , 137(4), 519-531.	4	3
34	Turdean G. L. , Oniciu L., <i>The influence of organic solvents on the biosensor function</i> , Revista de Chimie, 1998 , 49(9), 604-612.	1	0

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