

**UNIVERSITATEA BABEȘ-BOLYAI**  
**COMPETIȚIA EXCELENȚEI 2010**

**Dosar individual**

<b>Nume, prenume, grad did.</b>	ONUC COZAR, PROFESOR DR.
<b>Facultatea, Catedra</b>	Fizică, Fizică Biomedicală
<b>Domeniul științific</b>	Fizică
<b>Adresa paginii web personale</b>	
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**Criteriul I – Output**

1. Articole științifice publicate în reviste indexate ISI (cu menționarea factorului de impact în cazul celor cotate)  
58 articole = 3930,40 puncte
  2. Articole științifice publicate în ISI proceeding  
3 articole = 13 puncte
  3. Articole științifice indexate în BDI (din lista CNCSIS) și în reviste românești recunoscute de CNCSIS tip B și B\*  
27 articole = 65,43 puncte
  6. Cărți științifice publicate în edituri naționale acreditate  
3 cărți = 96,47 puncte
- TOTAL CRITERIU I = 4105,30 puncte**

**Criteriul II – Prestigiul profesional**

1. Citări ale articolelor ISI listate la Criteriul I  
50 citări = 500 puncte  
- pentru articole din reviste cu FI IS < 1, se aplică formula de la punctul 2  
14 citări = 140 puncte
  3. Citări în perioada 2005-2009 ale articolelor anterioare anului 2005  
77 citări = 770 puncte  
- pentru articole din reviste cu FI IS < 1, se aplică formula de la punctul 2  
65 citări = 650 puncte
  4. Distincții, premii și alte recunoașteri naționale și internaționale  
2 premii = 20 puncte
  5. Studenți naționali atași (activități de coordonare științifică și didactică)  
- Indrumare lucrari de licență = 75 puncte  
- Indrumare lucrari de dizertație = 60 puncte  
- 7 doctoranzi = 70 puncte
  6. Studenți internaționali atași (activități de coordonare științifică și didactică)  
1 doctoranzi = 20 puncte
  8. Membru în comitetul de redacție la reviste BDI  
2 reviste = 10 puncte
  12. Coordonări de programe/granturi finanțate din sursă națională  
4 granturi = 223,90 puncte
  16. Membru în comitete de organizare sau științifice ale unor conferințe internaționale  
2 comitete = 40 puncte
- TOTAL CRITERIU II = 2578,90 puncte**

**TOTAL PUNCTAJ = 0,6x4105,30 + 0,3x2578,90 + 0,1x0 = 3236,85 puncte**

Data: 16.03.2010  
Certific validarea datelor prezentate

Semnătura,

Decan,  
Prof.dr. Onuc Cozar

Universitatea Babeș-Bolyai  
COMPETITIA EXCELENTEI 2010  
Dosar individual

Nume, prenume, grad did.:	<b>ONUC COZAR, PROFESOR DR.</b>
Facultatea, Catedra:	<b>Fizica, Fizica Biomedicala</b>
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**CRITERIUL I - Output**

**1. Articole stiintifice publicate in reviste indexate ISI**

1	N. Leopold, S. Cintă-Pinzaru, M. Bolboacă, E. Antonescu, <u>O. Cozar</u> , W. Kiefer, J. Popp Raman and surface-enhanced Raman study of thiamine at different pH Values Vibrational Spectroscopy <b>39</b> , 169-176(2005)	61,76
2	D. A. Magdaș, <u>O. Cozar</u> , I. Ardelean, L. David Spectroscopic studies of some phosphate glasses with molibdenum ions Inter. J. Of Modern Physics B (I. J.M.P.B.) <b>19(10)</b> , 1815-1820(2005)	27,08
3	A.V. Pop, C. Pelshenke, <u>O. Cozar</u> Structural instability and supraconductivity of the (Nd, Gd, Ce) <sub>2</sub> CuO <sub>4</sub> system Modern Physics Letters B <b>16</b> , 607-611(2005)	36,10
4	C. Pelshenke, A.V. Pop, <u>O. Cozar</u> Structural phase diagram for thermal controlled distorsion by Gd ions in the (N <sub>x</sub> -yGd <sub>y</sub> ) <sub>1,85</sub> Ce <sub>0,15</sub> CuO <sub>4</sub> HTS system Inter. J. Of Modern Physics B <b>19</b> , 2161-2166(2005)	36,10
5	V. Chiș, A. Pârnu, T. Jurcă, M. Vasilescu, S. Simion, <u>O. Cozar</u> , L. David Experimental and DFT Study of Pyrazinamide Chem. Phys. <b>316</b> , 153-163(2005)	104,49
6	C. Bătiu, C. Jelic, N. Leopold, <u>O. Cozar</u> , L. David Spectroscopic investigation of new Cu(II), Co(II), Ni(II) complexes with γ- L-glutamyl amide as ligand J. Molec. Structure <b>744-747</b> , 325-330(2005)	72,00
7	M. Culea, <u>O. Cozar</u> , E. Culea PAHs in Cigarette Smoke by Gas Chromatography-mass Spectrometry Indoor and Built Environment <b>14</b> , 283-292(2005)	46,20
8	M. Culea, <u>O. Cozar</u> , C. Melian, D. Ristoiu GC/MS measurements of ambient levels volatile organic compounds Indoor and Built Environment <b>14</b> , 241-247(2005)	34,65
9	M. Tomoaia-Cotișel, Gh. Tomoaia, D.V. Pop, A. Mocanu, <u>O. Cozar</u> , N. Apetroaei, Gh. Popa Atomic force microscopy studies of Langmuir-Blodgett films. 3. Phase behavior of dipolmytil phosphatidyl choline monolayers Rev. Roum. Chim. <b>50(6)</b> , 473-480(2005)	8,53
10	M. Culea, <u>O. Cozar</u> , S. Nicoară, R. Podea Exposure Assessment of Nicotine and Cotinine by GC-MS Indoor and Built Environment <b>14</b> , 293-299(2005)	34,65
11	S. Nicoara, M. Culea, A.N. Nica, E. Culea, <u>O. Cozar</u> Select Ion Monitoring-Gas Chromatography/Mass Spectrometry determination of Halothane Fumes in Operating Theater Indoor and Built Environment <b>14(5)</b> , 405-410(2005)	27,72
12	<u>O. Cozar</u> , N. Leopold, C. Jelic, V. Chiș, L. David, A. Mocanu, M. Tomoaia-Cotișel IR, Raman and surface-enhanced Raman study of desferrioxamine B and its Fe(III) complex, ferrioxamine B Journal of Molecular Structure <b>788</b> , 1-6(2006)	8,57
13	M. Băias, A. Pîrnău, V. Chiș, <u>O. Cozar</u> , M. Vasilescu	68,28

	Experimental and theoretical investigation of 5-para-fluoro-benziliden-tiazolidin-2ion-4-ona Journal of Optoelectronics and Advanced Materials <b>8</b> , 205-208(2006)	
14	<u>O. Cozar</u> , V. Chiş, L. David, M. Baias Experimental and density functional theory investigation of some biomedical compounds Journal of Optoelectronics and Advanced Materials <b>8</b> , 164-172(2006)	85,35
15	N. Vedeanu, <u>O. Cozar</u> , I. Ardelean, B. Lendi IR and Raman investigation of x(CuO-V2O5) (1-x) [P2O5-CaF2] glass system Journal of Optoelectronics and Advanced Materials <b>8</b> , 78-81 (2006)	85,35
16	<u>O. Cozar</u> , D. A. Magdas, L. Nasdala, I. Ardelean, G. Damian Raman spectroscopic study of some lead phosphate glassel with tungsten ions J. Non-Crystalline Solids <b>352</b> , 3121-3125(2006)	75,84
17	C. Pelshenke, <u>O. Cozar</u> , A. V. Pop Structural instability under pressure in the (Nd, Gd, Ce)CuO <sub>4</sub> compound Journal of Optoelectronics and Advanced Materials <b>8</b> , 1283-1286(2006)	113,80
18	N. Vedeanu, <u>O. Cozar</u> , I. Ardelean, S. Filip Spectroscopic investigation on some calcium-phosphate glasses Journal of Optoelectronics and Advanced Materials <b>8</b> , 1135-1139(2006)	85,35
19	N. O. Goga, A. Pîrnău, L. Szabo, R. Smeets, D. Riediger, <u>O. Cozar</u> , B. Blümich Mobile NMR: Applications to Materials and Biomedicine Journal of Optoelectronics and Advanced Materials <b>8</b> , 1430-1434(2006)	48,77
20	M. Culea, <u>O. Cozar</u> , D. Ristoiu Methods Validation for THMs Determination in Drinking Water J. Mass Spectrometry <b>41</b> , 1594-1597(2006)	357,40
21	<u>O. Cozar</u> , A. Magdas, I. Ardelean Spectroscopic investigation of some lead-phosphate glasses with tungsten and molybdenum ions J. Opt. Adv. Mater. <b>9(6)</b> , 1730 – 1735(2007)	82,70
22	A. Magdas, <u>O. Cozar</u> , I. Ardelean, V. Ioncu The structural changes induced by the addition of MoO <sub>3</sub> and Fe <sub>2</sub> O <sub>3</sub> in lead-phosphate glasses J. Opt. Adv. Mater. <b>9(4)</b> , 822 – 824(2007)	62,03
23	N. Vedeanu, <u>O. Cozar</u> , I. Ardelean, V. Ioncu EPR and Raman investigation of some lead - phosphate glasses with vanadium and copper ions J. Opt. Adv. Mater. <b>9(4)</b> , 844 -847(2007)	62,03
24	M. Hossu, D. Rusu, M. Rusu, <u>O. Cozar</u> , C. Paşca, L. David Spectroscopic investigation of tetranuclear cluster encapsulated in some polyoxometalates complexes J. Opt. Adv. Mater. <b>9(4)</b> , 1000-1004(2007)	41,35
25	M. Tomoaia – Cotişel, A. Mocanu, N. Leopold, M. Vasilescu, V. Chiş, <u>O. Cozar</u> FT – Raman and NMR investigation of the protein extracted from barley alenivone cells J. Opt. Adv. Mater. <b>9(3)</b> , 637-640(2007)	41,35
26	A. Pîrnău, V. Chiş, <u>O. Cozar</u> , M. Vasilescu, S. Simon Experimental and DFT Investigation of 5-Para-Nitro-Benziliden-Tiazolidin 2-Tion-4-Ona J. Opt. Adv. Mater. <b>9(3)</b> , 547 – 550(2007)	49,62
27	Szabo L., V. Chiş, A. Pîrnău, <u>O. Cozar</u> , Orosz Sz. Theoretical and experimental study of aripriprazole molecule J. Opt. Adv. Mater. <b>9(3)</b> , 599 – 604(2007)	49,62
28	N. Vedeanu, <u>O. Cozar</u> , I. Ardelean IR and EPR investigation of V <sub>2</sub> O <sub>5</sub> – P <sub>2</sub> O <sub>5</sub> – CaF <sub>2</sub> glass system J. Opt. Adv. Mater. <b>9(3)</b> , 698-701(2007)	82,70
29	A. Măgdaş, <u>O. Cozar</u> , I. Ardelean, L. David Infrared spectra of WO <sub>3</sub> – PbO – P <sub>2</sub> O <sub>5</sub> glasses J. Opt. Adv. Mater. <b>9(3)</b> , 729-732(2007)	62,03
30	V. Chiş, M. Venter, C. Lehene, M. Vasilescu, N. Leopold, <u>O. Cozar</u> Bis-aniline compounds as potential candidates for molecular electronics: Experimental and DFT investigation on 4,4'-diaminodiphenyloxide J. Opt. Adv. Mater. <b>9(3)</b> , 788-794(2007)	41,35

31	M. Rusu, <u>O. Cozar</u> , L. David, M. Hossu, A. Ilie, R. Rusu Spectroscopic investigation of trinuclear metallic cluster encapsulated in silico-9-wolframic heteropolyanion J. Opt. Adv. Mater. <b>9(3)</b> , 711-715(2007)	41,35
32	M. Rusu, <u>O. Cozar</u> , L. David, A. Marcu, R. Rusu, A. Stănilă Spectroscopic studies of copper (II) complexes with some amino acids J. Opt. Adv. Mater. <b>9(3)</b> , 741-746(2007)	41,35
33	I. Ardelean, <u>O. Cozar</u> , N. Vedeanu, D. Rusu, C. andronache EPR study of $V_2O_5-P_2O_5-Li_2O_2$ J. Mat. Sc+i: Mater Electron <b>18</b> , 963-966(2007)	61,74
34	N. Peica, C. Lehene, N. Leopold, <u>O. Cozar</u> , W. Kiefer Raman and surface-enhanced Raman studies of the food additives sodium benzoate Opt. Adv. Mater. <b>9(9)</b> , 2943-2948(2007)	49,62
35	<u>O. Cozar</u> , N. Leopold, M. Tomoia-Cotișel, A. Mocanu, C. Jelic IR, NMR and EPR investigation of iron recognizing molecule desferrioxamine B J. Optoelectronics Advanced Materials <b>9</b> , 3912-3916(2007)	49,62
36	<u>O. Cozar</u> , A. Măgdaș, I. Ardelean EPR study of molybdenum-lead-phosphate-glasses J. Non – Crystalline Solids <b>354</b> , 1032-1035(2008)	136,30
37	S. Cîntă-Pânzaru, L.M. Andronie, I. Domșa, <u>O. Cozar</u> , S. Aștilean Bridging biomolecules with nanoparticles: surface-enhanced Raman scattering from colon carcinoma and normal tissue J. Raman Spectroscopy, Rapid Communication <b>39(3)</b> , 331-334(2008)	127,98
38	A. Marcu, A. Stănilă, <u>O. Cozar</u> , L. David Structural investigations of some metallic complexes with threonine as ligand J. Optoelectronics Advanced Materials <b>10</b> , 830-833(2008)	56,25
39	M. Hossu, D. Rusu, M. Rusu, <u>O. Cozar</u> , L. David Spectroscopic study of dinuclear vanadium cluster encapsulated in sandwich-type heteropolyoxometalate J. Optoelectronics Advanced Materials <b>10</b> , 697-700(2008)	45,00
40	<u>O. Cozar</u> , N. Vedeanu, D.A. Măgdaș, I. Ardelean EPR and Raman investigation of some fluoro-calcium phosphate glasses containing copper ions J. Optoelectronics Advanced Materials <b>10</b> , 871-875(2008)	56,25
41	<u>O. Cozar</u> , M. Bako, L. Dărăban, I. Ardelean, L. David $P_2O_5-CaO-Li_2O$ glass system – a possible ESR dosimeter Optoelectronics and Advanced Materials – Rapid Communication <b>2</b> , 249-252(2008)	19,80
42	N. Leopold, V. Chiș, I.B. Cozar, L. Szabo, A. Pîrnău, <u>O. Cozar</u> Raman, SERS and DFT investigations of two metal – chelating compounds Optoelectronics Advanced Materials - Rapid Communication <b>2</b> , 278-283(2008)	16,50
43	A. Pîrnău, V. Chiș, D. Oniga, N. Leopold, L. Szabo, M. Baias, <u>O. Cozar</u> Vibrational and DFT study of 5-(3-pyridyl-methylidene)-thiazolidine-2-thione-4-one Vibrational Spectroscopy, <b>48</b> , 289-296(2008)	77,57
44	L. Szabo, V. Chiș, A. Pîrnău, N. Leopold, <u>O. Cozar</u> , Sz. Orosz Spectroscopic and theoretical studies of dofetilide Vibrational Spectroscopy, <b>48</b> , 297-301(2008)	90,50
45	D.A. Măgdaș, <u>O. Cozar</u> , V. Chiș, I. Ardelean, N. Vedeanu The structural dual role of $Fe_2O_3$ in some lead-phosphate glasses Vibrational Spectroscopy, <b>48</b> , 251-254(2008)	108,60
46	N. Vedeanu, <u>O. Cozar</u> , I. Ardelean, B. Lendl, D.A. Măgdaș Raman spectroscopic study of $CuO-V_2O_5-P_2O_5-CaO$ glass system Vibrational Spectroscopy, <b>48</b> , 259-262(2008)	108,60
47	<u>O. Cozar</u> , D.A. Măgdaș, N. Vedeanu, I. Ardelean EPR Study of some iron-lead-phosphate glasses J. Optoelectronics Advanced Materials, <b>10(11)</b> , 3038-3040(2008)	56,25
48	M. Hossu, D. Rusu, M. Rusu, D. Cozma, L. David, <u>O. Cozar</u> Synthesis and physical-chemical study of sandwich-type heteropolyoxometalate with dinuclear vanadium clusters J. Optoelectronics Advanced Materials, <b>10</b> , 2346-2350(2008)	37,50

49	A. Iordache, M. Culea, <u>O. Cozar</u> Rapid authentication of natural juices by GC/MS Chemické Listy Journal, <b>102</b> , s665-666(2008)	68,30
50	A. Iordache, M. Culea, <u>O. Cozar</u> Comparative extraction methods of some biologic active compounds in herbs Chemické Listy Journal, <b>102</b> , s667-669(2008)	68,30
51	V. Chiş, M.M.Venter, N.Leopold, <u>O.Cozar</u> Raman, surface-enhanced Raman scattering and DFT study of para-nitro-aniline Vibrational Spectroscopy, <b>48</b> , 210-241(2008)	135,75
52	O.Cozar, D.A.Măgdaş, N.Vedeanu, I.Ardelean EPR study of some lead-phosphate glasses J.Optoelectronics Advanced Materials, <b>10</b> (11), 3038-3040(2008)	56,25
53	N. Leopold, L. Szabo, A. Pirmău, M. Aluăş, L.F. Leopold, V. Chiş, <u>O. Cozar</u> Raman spectroscopic and DFT theoretical study of 4-(2-pyridylazo) resorcinol and its complexes with zinc(II) and copper(II) J. Molecular Structure, <b>919</b> , 94-99(2009)	68,31
54	A.Pirmău, V.Chiş, L.Szabo, O.Cozar, M.Vasilescu, O.Oniga, R.A. Varga Experimental and teoretical investigation of 5-para-nitro-benzylidene-thiazolidine-2-thione-4-one molecule J.Molec.Structure, 924-926, 361-370(2009)	68,31
55	L.Szabo, V.Chiş, A.Pirmău, N.Leopold, <u>O.Cozar</u> , Sz.Orosz Spectroscopic and theoretical study of amlodipine besylate J. Molec.Structure, 924-926, 385-392(2009)	79,70
56	A. Iordache, M. Culea, C. Gherman, <u>O. Cozar</u> Characterization of some plant extracts by GC/MS Nuclear Instruments and Methods in Physics Research, Section B, 267(2), 338-342(2009)	70,95
57	A.Olaru, Gh.Borodi, I.Kacso, M.Vasilescu, I.Bratu, <u>O.Cozar</u> Spectroscopic studies of the inclusion compound of lisinopril with $\beta$ -cyclodextrin Spectroscopy, <b>23</b> , 191-199(2009)	41,00
58	A.Iordache, M.Culea, <u>O.Cozar</u> Characterization of some extracts for therapeutic use by GC/MS Journal of Physics: Conference Series, <b>182</b> , 1-5(2009)012027	100,00
<b>TOTAL</b>		<b>3930,40</b>

## 2. Articole stiintifice publicate in ISI proceedings

b	1	C. Cosma, <u>O. Cozar</u> , T. Jurent, C. Baciu, I. Pop Simultaneous measurement of radon and thoron exhalation rate from soil and building materials The natural radiation environment VII, (J. P. McLaughlin, S. E. Simopanos, F. Steinhausler Eds), Elsevier, Amsterdam, New York, Tokyo, 2005, p. 699-705	4,00
	2	L. Daraban, Laura Daraban, <u>O. Cozar</u> , R. Adam-Rebeles The Use of Isotopic Neutron Sources for some Radionuclides Production in Nuclear and other Domains of Science 5 <sup>th</sup> International Conference on Isotopes (5 ICI), Brussels, International Proceedings, Medimond, F425R0170, 2005, p. 257-26	5,00
	3	M.Culea, E.Culea, <u>O.Cozar</u> , D.Ileşan, M.Udrescu Diagnosis and Control by Using Biomarkers In vol."MEDITECH 2009, IFMBE Proceedings 26, pp19-24, 2009 (S.Vlad, R.V.Ciupa, A.I.Nicu Eds.)	4,00
<b>TOTAL</b>		<b>13,00</b>	

## 3. Articole stiintifice publicate in reviste indexate in BDI (din lista CNCSIS) si in reviste romanesti recunoscute de CNCSIS tip B si B\*

1	P. Berdea, S. Cuna, <u>O. Cozar</u> , G. Mureşan Application of Stable Isotopes ( <sup>18</sup> O, D) to Study the Provenience of Mineral waters from some locations of Romania Rom. Journ. Phys.	2,50
2	V. Chis, C. Lehene, M. Venter, <u>O. Cozar</u> , M. Vasilescu, N. Leopold FT-IR, Raman, NMR and DFT studies on two bis-aniline derivates Studia UBB, ser. Physica, PIM 2005, 3	1,67

3	D. Ristoiu, Urs von Guten, Iovanca Haiduc, Monica Culea, <u>O. Cozar</u> , C. Cosma Formation of trihalomethanes and bromate during disinfection of drinking water in water treatment plants and distribution systems Studia UBB, ser. Physica, PIM 2005, 3	1,67
4	Simona Nicoara, Z. Moldovan, N. Palibroda, M. Culea, <u>O. Cozar</u> , I. Fenesan Study of the kinetic energy release in metastable ions cleavage for n-methyl p-substituted arylsulfonamido thiophosphororganic derivatives Studia UBB, ser. Physica, PIM 2005, 4	1,67
5	Laura Daraban, <u>O. Cozar</u> , G. Damian, L. Daraban, D.Petrisor, G.Schmutzer ESR Dosimetry by some detergents and aminoacids Studia UBB, ser. Physica, PIM 2005, 4	1,67
6	Carmen Tripon, D. Toloman, <u>O. Cozar</u> , I. Bratu, I. Ardelean Structural haracterization of $V_2O_5-Bi_2O_3-B_2O_3$ system by IR absorbtion and EPR Studia UBB, ser. Physica, PIM 2005, 4	2,00
7	Rodica Grecu, I. Bratu, T. Iliescu, <u>O. Cozar</u> Intermolecular interactions of dimethyldichlorosilane with different solvents studied by IR spectroscopy Studia UBB, ser. Physica, PIM 2005, 4	2,50
8	D. Ristoiu, C. Cosma, T. Ristoiu, <u>O. Cozar</u> , D. Cenan Solar thermal heat pipe active systems Studia UBB, ser. Physica, PIM 2005, 4	2,00
9	D. Ristoiu, C. Cosma, T. Ristoiu, <u>O. Cozar</u> , D. Cenan Design and performance of the active solar collector Studia UBB, ser. Physica, PIM 2005, 4	2,00
10	M. Culea, S. Neamtu, <u>O. Cozar</u> Amino acids transmembranar transport study Revista Medico-Chirurgicala	3,33
11	M. Iosin, M. Culea, <u>O. Cozar</u> , L. Petrusca Accurate quantification of amino acids in different biological specimens by gas chromatography – mass spectrometry Revista Medico-Chirurgicala	2,50
12	S. Cună, C. Cună, G. Bălaș, <u>O. Cozar</u> Using stable isotopes to identify geographical origin of wines Studia UBB, ser. Physica	2,50
13	D. A. Măgdaș, <u>O. Cozar</u> , I. Ardelean, N. Vedeanu Raman Spectroscopy of lead-phosphate glasses with iron ions Studia UBB, ser. Physica	2,50
14	La. Dărăban, <u>O. Cozar</u> , L. Dărăban The production and characterization of some medically used radioisotopes Studia UBB, ser. Physica	3,33
15	L. Szabo, A. Pîrnău, A. Vodă, B. Blümich, <u>O. Cozar</u> Magnetic Field simulation for Mouse <sup>®</sup> design using Vector Fields <sup>™</sup> Opera 3D Studia UBB, ser. Physica	2,00
16	N. Vedeanu, <u>O. Cozar</u> , I. Ardelean, D. A. Măgdaș, The structure of $CuO-P_2O_5-CaF_2$ glass system Studia UBB, ser. Physica	2,50
17	M.Culea, <u>O. Cozar</u> Spectroscopic methods for rapid diagnosis Acta electronica	5,00
18	M.Culea, A.Iordache, M.Chiriac, C.Lehene, <u>O. Cozar</u> Rapid diagnosis of cirrhosis by isotopic dilution gas chromatography-mass spectrometry Acta electronica	2,00
19	Laura Dărăban, <u>O. Cozar</u> , L.Dărăban Production of the medical radioisotope $^{64}Cu$ at a cyclotron by deuteron induced reactions on enriched $^{64}Ni$ targets Studia UBB, ser. Physica	3,33
20	A.Iordache, M.Culea, C.Lehene, <u>O. Cozar</u> GC/MS analysis of wines Studia UBB, ser. Physica	2,50

21	A.Iordache, C.Mesaros, M.Culea, <u>O.Cozar</u> Statistics for cirrhosis diagnosis by GC/MS Studia UBB, ser.Physica	2,50
22	C.Mesaros, A.Iordache, M.Culea, C.Crăciun, <u>O.Cozar</u> , R.Fechete, E.Culea Sea Buckthorn Oil Study by GC/MS and IR Studia UBB, ser.Physica	1,43
23	C.Mesaroș, M.Culea, A.Iordache, <u>O.Cozar</u> GC-MS characterization of the compounds in some Essential Oils Buletin USAMV Agriculture	2,50
24	A.Iordache, C.Mesaroș, <u>O.Cozar</u> , M.Culea Determination of theophylline in biological fluids by isotopic dilution mass spectrometry Studia UBB, ser.Physica	2,50
25	L.M.Andronie, S.Cîntă-Pinzaru, N.Peica, N.Leopold, <u>O.Cozar</u> SERS investigation of paracetamol adsorbed on Ag island films Studia UBB, ser.Physica	2,00
26	A.Iordache, M.Culea, <u>O.Cozar</u> A Study on Trace Metals in Airborne Particulate Matter Using ICP-MS Technique Studia UBB, ser.Physica	3,33
27	C.Mesaroș, M.Culea, A.Iordache, <u>O.Cozar</u> , C.Cosma GC-MS analysis of flavonoids in Orthosiphon staminens Benth Buletin USAMV Agriculture	2,00

**TOTAL**

**65,43**

4. Alte articole stiintifice/capitole publicate in reviste/volume cu referenti (peer-reviewed)

1

**TOTAL**

5. Carti stiintifice publicate in edituri internationale

**TOTAL**

6. Carti stiintifice publicate in edituri nationale acreditate

1	Detectori de radiatii. Spectroscopie gama <u>O. Cozar</u> Presa Univ. Clujeană, 2007(300 p), ISBN: 978-973-610-520-3	60,00
	E. Hauer, <u>O. Cozar</u> , S. Cună, G. Bălaș, C. Nichita Izotopii carbonului și încălzirea globală Ed. Napoca Star, 2007(120 p), ISBN 978-973-647-541-2	4,80
	V. Chiș, <u>O. Cozar</u> , L. David Simetrie moleculară Ed. Napoca Star, 2007(475 p), ISBN: 978-973-647-556-6	31,67

**TOTAL**

**96,47**

7. Editor de volume publicate in edituri nationale si internationale

**TOTAL**

8. Brevete internationale

**TOTAL**

9. Brevete nationale

**TOTAL**

10. Impact tehnologic al brevetelor: resurse financiare extrabugetare atrase in relatie cu economia

**TOTAL**

11. Realizari artistice nationale si internationale (Domeniul Arte)

**TOTAL**

**TOTAL CRITERIUL I**

**4105,30**

**CRITERIUL II - Prestigiu profesional**

1. Citari ale articolelor ISI listate la Criteriul I

nr. articol	titlu articol	punctaj	factor impact	nr. citări
1	N. Leopold, S. Cîntă-Pînzaru, M. Bolboacă, E. Antonescu, O. Cozar, W. Kiefer, J. Popp Raman and surface-enhanced Raman study of thiamine at different pH Values Vibrational Spectroscopy 39, 169-176(2005)	20	1,441	2
1.1	Joshi, G.V., Patel, H.A., Kevadiya, B.D., Bajaj, H.C. Montmorillonite intercalated with vitamin B1 as drug carrier (2009) Applied Clay Science, 45 (4), pp. 248-253.			
1.2	Khan, M.A., Jin, S.O., Lee, S.H., Chung, H.Y. Spectrofluorimetric determination of vitamin B1 using horseradish peroxidase as catalyst in the presence of hydrogen peroxide (2009) Luminescence, 24 (2), pp. 73-78.			
2	V.Chiş, A.Pârnau, T.Jurcă, M.Vasilescu, S.Simion, O Cozar, L. David Experimental and DFT Study of Pyrazinamide Chem. Phys. 316, 153-163(2005)	120	2,438	12
2.1	Ahmed, A.B., Feki, H., Abid, Y., Minot, C. Molecular structure, vibrational spectra and nonlinear optical properties of orthoarsenic acid-tris-(hydroxymethyl)-aminomethane DFT study (2010) Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 75 (4), pp. 1315-1320.			
2.2	Borba, A., Albrecht, M., Gómez-Zavaglia, A., Suhm, M.A., Fausto, R. Low temperature infrared spectroscopy study of pyrazinamide: From the isolated monomer to the stable low temperature crystalline phase (2010) Journal of Physical Chemistry A, 114 (1), pp. 151-161.			
2.3	Castro, R.A.E., Maria, T.M.R., Évora, A.O.L., Feiteira, J.C., Silva, M.R., Beja, A.M., Canotilho, J., Eusébio, M.E.S. A new insight into pyrazinamide polymorphic forms and their thermodynamic relationships (2010) Crystal Growth and Design, 10 (1), pp. 274-282.			
2.4	Hazarika, K.K., Baruah, N.C., Deka, R.C. Molecular structure and reactivity of antituberculosis drug molecules isoniazid, pyrazinamide, and 2-methylheptylisonicotinate: A density functional approach (2009) Structural Chemistry, 20 (6), pp. 1079-1085.			
2.5	Feki, H., Ahmed, A.B., Fourati, N., Abid, Y., Minot, C. Theoretical studies of molecular structure and vibrational spectra of the asymmetric squaraine [(2-dimethylamino-4-anilino) squaraine] (2009) Journal of Molecular Structure: THEOCHEM, 895 (1-3), pp. 21-25.			
2.6	Tiwary, A.S., Sengupta, P.S., Mukherjee, A.K. Modeling the ground state geometry and estimating the charge transfer transition energy of the toluene-ICL molecular complex by ab initio and DFT methods (2008) Journal of Theoretical and Computational Chemistry, 7 (3), pp. 331-346.			
2.7	Hatzipanayioti, D., Tzeferakos, G., Petropouleas, P. DFT and experimental investigation of catecholate derivatives of benzoic acid and pyridine (2008) Chemical Physics, 345 (1), pp. 119-129.			
2.8	Chiş, V., Pîrnău, A., Vasilescu, M., Varga, R.A., Oniga, O. X-ray, 1H NMR and DFT study on 5-para-X-benzylidene-thiazolidine derivatives with X = Br, F (2008) Journal of Molecular Structure: THEOCHEM, 851 (1-3), pp. 63-74.			



2.9	Yilmaz, A., Bolukbasi, O., Bakiler, M. An experimental and theoretical vibrational spectra of isoniazide (2008) Journal of Molecular Structure, 872 (2-3), pp. 182-189.			
2.10	CHIH-DFT determination of the molecular structure infrared spectra, UV spectra and chemical reactivity of three antitubercular compounds: Rifampicin, isoniazid and pyrazinamide (2007) Journal of Molecular Modeling, 13 (4), pp. 505-518.			
2.11	Hatzipanayioti, D., Karaliota, A., Kamariotaki, M., Aletras, V., Petropouleas, P. Theoretical and spectroscopic investigation of the oxidation and degradation of protocatechuic acid (2006) Chemical Physics, 325 (2-3), pp. 341-350.			
2.12	Thirumoorthy, K., Nandi, N. Comparison of the intermolecular energy surfaces of amino acids: Orientation-dependent chiral discrimination (2006) Journal of Physical Chemistry B, 110 (17), pp. 8840-8849.			
3	C. Bătiu, C. Jelic, N. Leopold, O. Cozar, L. David Spectroscopic investigation of new Cu(II), Co(II), Ni(II) complexes with $\gamma$ -L-glutamyl amide as ligand J. Molec. Structure 744-747, 325-330(2005)	30	1,2	3
3.1	Rusu, D., Stanila, A., Marian, I.O., Marian, C.O., Rusu, M., Lucaciu, R. Synthesis and characterization of some cobalt (II) complexes with amino acids having biological activities (2009) Revista de Chimie, 60 (9), pp. 939-943.			
3.2	Wojciechowska, A., Daszkiewicz, M., Bie?ko, A. Polymeric Zn(II) and Cu(II) complexes with exobidentate bridging l-tyrosine: Synthesis, structural and spectroscopic properties (2009) Polyhedron, 28 (8), pp. 1481-1489.			
3.3	Stanila, A., Marcu, A., Rusu, D., Rusu, M., David, L. Spectroscopic studies of some copper(II) complexes with amino acids (2007) Journal of Molecular Structure, 834-836 (SPEC. ISS.), pp. 364-368.			
4	O. Cozar, N. Leopold, C. Jelic, V. Chiş, L. David, A. Mocanu, M. Tomoaia-Cotişel IR, Raman and surface-enhanced Raman study of desferrioxamine B and its Fe(III) complex, ferrioxamine B Journal of Molecular Structure 788,1-6(2006)	80	1,2	8
4.1	Tomoaia-Cotişel, M., Pop-Toader, D.-V., Zdrengea, U.V., Tomoaia, G., Horovitz, O., Mocanu, A. Desferal effect on human erythrocyte membrane. An atomic force microscopy analysis (2009) Studia Universitatis Babeş-Bolyai Chemia, 4 (2), pp. 285-296.			
4.2	Aydin, O., Alta?, M., Kahraman, M., Bayrak, O.F., Çulha, M. Differentiation of healthy brain tissue and tumors using Surface-enhanced Raman scattering (2009) Applied Spectroscopy, 63 (10), pp. 1095-1100.			
4.3	Çulha, M., Adigüzel, A., Yazici, M.M., Kahraman, M., ?ahin, F., Güllüce, M. Characterization of thermophilic bacteria using surface-enhanced Raman scattering (2008) Applied Spectroscopy, 62 (11), pp. 1226-1232.			
4.4	Roy, E.G., Jiang, C., Wells, M.L., Tripp, C. Determining subnanomolar iron concentrations in oceanic seawater using a siderophore-modified film analyzed by infrared spectroscopy (2008) Analytical Chemistry, 80 (12), pp. 4689-4695.			
4.5	Lu, N., Zhang, M., Li, H., Gao, Z. Completely different effects of desferrioxamine on hemin/nitrite/H <sub>2</sub> O <sub>2</sub> -induced bovine serum albumin nitration and oxidation (2008) Chemical Research in Toxicology, 21 (6), pp. 1229-1234.			
4.6	Kim, Y., Cho, K., Lee, K., Choo, J., Gong, M.-s., Joo, S.-W. Electric field-induced adsorption change of 1,3,5-benzenetricarboxylic acid on gold, silver, and copper electrode surfaces investigated by surface-enhanced Raman scattering (2008) Journal of Molecular Structure, 878 (1-3), pp. 155-161.			
4.7	Kahraman, M., Tokman, N., Çulha, M. Silver nanoparticle thin films with nanocavities for surface-enhanced Raman scattering (2008) ChemPhysChem, 9 (6), pp. 902-910.			
4.8	Wöllner, K., Vollprecht, M., Leopold, N., Kasper, M., Busche, S., Gauglitz, G. Interaction behaviour of a PDMS-calixarene system and polar analytes characterised by microcalorimetry and spectroscopic methods (2007) Analytical and Bioanalytical Chemistry, 389 (6), pp. 1879-1887.			
5	M. Baias, A. Pîrnău, V. Chiş, O. Cozar, M. Vasilescu Experimental and theoretical investigation of 5-para-fluoro-benziliden-tiazolidin-2-tion-4-ona Journal of Optoelectronics and Advanced Materials 8, 205-208(2006)	10	1,138	1
5.1	Ali, H.R.H., Edwards, H.G.M., Kendrick, J., Scowen, I.J. Vibrational spectroscopic study of terbutaline hemisulphate (2009) Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 72 (4), pp. 715-719			

6	O. Cozar, V. Chiş, L. David, M. Baias Experimental and density functional theory investigation of some biomedical compounds Journal of Optoelectronics and Advanced Materials 8, 164-172(2006)	30	1,138	3
6.1	Borba, A., Albrecht, M., Gómez-Zavaglia, A., Suhm, M.A., Fausto, R. Low temperature infrared spectroscopy study of pyrazinamide: From the isolated monomer to the stable low temperature crystalline phase (2010) Journal of Physical Chemistry A, 114 (1), pp. 151-161.			
6.2	Liu, G., Ma, S., Song, X., Zhang, P., Li, H., Wang, W. Spectroscopy of several drugs in the terahertz region (2009) Proceedings of SPIE - The International Society for Optical Engineering, 7385, p. 738527.			
6.3	Bezerra, E.M., Flores, M.Z.S., Caetano, E.W.S., Freire, V.N., Lemos, V., Cavada, B.S., De Lima Filho, J.L. Quantum mechanical ab initio calculations of the Raman scattering from psoralens (2006) Journal of Physics Condensed Matter, 18 (35), art. no. 017, pp. 8325-8336.			
7	N. Vedeau, O. Cozar, I. Ardelean, B. Lendl IR and Raman investigation of x(CuO·V2O5) (1-x) [P2O5·CaF2] glass system Journal of Optoelectronics and Advanced Materials 8, 78-81 (2006)	20	1,138	2
7.1	Noda, I. Recent advancement in the field of two-dimensional correlation spectroscopy (2008) Journal of Molecular Structure, 883-884 (1-3), pp. 2-26.			
7.2	Pisarski, W.A. Praseodymium in heavy metal oxyfluoride glass systems (2006) Journal of Optoelectronics and Advanced Materials, 8 (3), pp. 1206-1210.			
8	O. Cozar, D. A. Magdas, L. Nasdala, I. Ardelean, G. Damian Raman spectroscopic study of some lead phosphate glass with tungsten ions J. Non-Crystalline Solids 352, 3121-3125(2006)	30	1,264	3
8.1	Ciceo Lucacel, R., Hulpus, A.O., Simon, V., Ardelean, I. Structural characterization of phosphate glasses doped with silver (2009) Journal of Non-Crystalline Solids, 355 (7), pp. 425-429.			
8.2	Pascuta, P., Pop, L., Rada, S., Bosca, M., Culea, E. The local structure of bismuth borate glasses doped with europium ions evidenced by FT-IR spectroscopy (2008) Journal of Materials Science: Materials in Electronics, 19 (5), pp. 424-428.			
8.3	Hulpus, A.O., Ciceolucacel, R., Ardelean, I. Spectroscopic studies of some silver calcium phosphate glasses (2008) Journal of Optoelectronics and Advanced Materials, 10 (2), pp. 240-242.			
9	N. O. Goga, A. Pîrnău, L. Szabo, R. Smeets, D. Riediger, O. Cozar, B. Blümich Mobile NMR: Applications to Materials and Biomedicine Journal of Optoelectronics and Advanced Materials 8, 1430-1434(2006)	20	1,138	2
9.1	Blümich, B., Perlo, J., Casanova, F. Mobile single-sided NMR (2008) Progress in Nuclear Magnetic Resonance Spectroscopy, 52 (4), pp. 197-269.			
9.2	Demas, V., Herberg, J.L., Malba, V., Bernhardt, A., Evans, L., Harvey, C., Chinn, S.C., Maxwell, R.S., Reimer, J. Portable, low-cost NMR with laser-lathe lithography produced microcoils (2007) Journal of Magnetic Resonance, 189 (1), pp. 121-129.			
10	M. Culea, O. Cozar, D. Ristoiu Methods Validation for THMs Determination in Drinking Water J. Mass Spectrometry 41, 1594-1597(2006)	30	3,574	3
10.1	Ruiz-Bevia, F., Fernandez-Torres, M.J., Blasco-Alemany, M.P. Purge efficiency in the determination of trihalomethanes in water by purge-and-trap gas chromatography (2009) Analytica Chimica Acta, 632 (2), pp. 304-314.			
10.2	Pérez Pavón, J.L., Herrero Martín, S., García Pinto, C., Moreno Cordero, B. Determination of trihalomethanes in water samples: A review (2008) Analytica Chimica Acta, 629 (1-2), pp. 6-23.			
10.3	Pérez Pavón, J.L., Martín, S.H., García Pinto, C., Moreno Cordero, B. Headspace-programmed temperature vaporizer-fast gas chromatography-mass spectrometry coupling for the determination of trihalomethanes in water (2008) Journal of Chromatography A, 1194 (1), pp. 103-110.			
11	I. Ardelean, O. Cozar, N. Vedeau, D. Rusu, C. andronache EPR study of V2O5-P2O5-Li2O2 J. Mat. Sci.: Mater Electron 18, 963-966(2007)	10	1,029	1

	11.1	Behzad, H., Hekmatshoar, M.H., Mirzayi, M., Azmoonfar, M. Activation energy and conductivity of glasses in the P2O5-V2O5-Li2O system (2009) Ionics, 15 (5), pp. 647-650.			
	12	O. Cozar, A. Măgdaş, I. Ardelean EPR study of molybdenum-lead-phosphate-glasses J.Non – Crystalline Solids 354, 1032-1035(2008)	20	1,363	2
	12.1	Nagarjuna, M., Satyanarayana, T., Ravi Kumar, V., Veeraiah, N. Ag concentration dependent transport properties of LiF-MoO3-P2O5 glasses (2009) Physica B: Condensed Matter, 404 (20), pp. 3748-3755.			
	12.2	Padmanabham, A., Ravi Kumar, V., Satyanarayana, T., Veeraiah, N. Induced crystallization and the physical properties of PbO-Sb2O3-As2O3: MoO3 glass system (2009) Journal of Physics and Chemistry of Solids, 70 (3-4), pp. 669-679.			
	13	S.Cintă-Pânzaru, L.M. Andronie, I.Domşa, O.Cozar, S.Aştiilean Bridging biomolecules with nanoparticles: surface-enhanced Raman scattering from colon carcinoma and normal tissue J. Raman Spectroscopy, Rapid Communication 39(3), 331-334(2008)	50	2,133	5
	13.1	Kiefer, W. Recent advances in linear and non-linear Raman spectroscopy. Part III (2009) Journal of Raman Spectroscopy, 40 (12), pp. 1766-1779.			
	13.2	Feng, S., Lin, J., Cheng, M., Li, Y.-Z., Chen, G., Huang, Z., Yu, Y., Chen, R., Zeng, H. Gold nanoparticle based surface-enhanced Raman scattering Spectroscopy of cancerous and normal nasopharyngeal tissues under near-infrared laser excitation (2009) Applied Spectroscopy, 63 (10), pp. 1089-1094.			
	13.3	Aydin, O., Kahraman, M., Kiliç, E., Çulha, M. Surface-enhanced raman scattering of rat tissues (2009) Applied Spectroscopy, 63 (6), pp. 662-668.			
	13.4	Willets, K.A. Surface-enhanced Raman scattering (SERS) for probing internal cellular structure and dynamics (2009) Analytical and Bioanalytical Chemistry, 394 (1), pp. 85-94.			
	13.5	Kazanci, M., Schulte, J.P., Douglas, C., Fratzl, P., Pink, D., Smith-Palmer, T. Tuning the surface-enhanced raman scattering effect to different molecular groups by switching the silver colloid solution pH (2009) Applied Spectroscopy, 63 (2), pp. 214-223.			
	14	N.Vedeanu, O. Cozar, I. Ardelean, B.Lendl, D.A. Măgdaş Raman spectroscopic study of CuO-V2O5-P2O5-CaO glass system Vibrational Spectroscopy, 48, 259-262(2008)	30	1,81	3
	14.1	Mazali, I.O., Alves, O.L., De Fátima Gimenez, I. Micro-raman spectroscopy studies of the phase separation mechanisms of transition-metal phosphate glasses [Estudo por espectroscopia micro-raman dos mecanismos de separação de fase em vidros fosfatos de metais de transição] (2009) Quimica Nova, 32 (7), pp. 1956-1960.			
	14.2	Nagarjuna, M., Satyanarayana, T., Ravi Kumar, V., Veeraiah, N. Ag concentration dependent transport properties of LiF-MoO3-P2O5 glasses (2009) Physica B: Condensed Matter, 404 (20), pp. 3748-3755.			
	14.3	Nagarjuna, M., Satyanarayana, T., Gandhi, Y., Veeraiah, N. Influence of Ag2O on some physical properties of LiF-TiO2-P2O5 glass system (2009) Journal of Alloys and Compounds, 479 (1-2), pp. 549-556.			
total			500,00		50

**TOTAL**

**500,00**

nr. articol	titlu articol	punctaj	factor impact	nr. citări
1	M. Culea, O. Cozar, E. Culea PAHs in Cigarette Smoke by Gas Chromatography-mass Spectrometry Indoor and Built Environment 14, 283-292(2005)	10	0,462	1
1.1	Liu, X., Pawliszyn, J. Preliminary studies of using preheated carrier gas for on-line membrane extraction of semivolatile organic compounds (2007) Analytical and Bioanalytical Chemistry, 387 (7), pp. 2517-2525.			

2	M. Tomoaia- Cotișel, Gh. Tomoaia, D.V. Pop, A. Mocanu, O. Cozar, N. Apetroaei, Gh. Popa Atomic force microscopy studies of Langmuir-Blodgett films. 3. Phase behavior of dipolmytoil phosphatidyl choline monolayers Rev. Roum. Chim.50(6), 473-480(2005)	40	0,199	4
2.1	Tomoaia-Cotișel, M., Prejmerean, C., Tomoaia, Gh., Mocanu, A., Trif, M., Badanoiu, A., Buruiana, T., Horovitz, O., Hosu, A. Characterization by atomic force microscopy of some composites based on surface active glasses and copolymers (2008) Journal of Optoelectronics and Advanced Materials, 10 (4), pp. 937-941.			
2.2	Prejmerean, C., Tomoaia, Gh., Tomoaia-Cotișel, M., Mocanu, A., Horovitz, O., Moldovan, M., Ducea, D., Voicu, G., Petean, I. Surface organization and stability of some composites exposed to biologic medium. Atomic force microscopy observations (2008) Journal of Optoelectronics and Advanced Materials, 10 (3), pp. 597-601.			
2.3	Barbu-Tudoran, L., Tomoaia, G.H., Horovitz, O., Mocanu, A., Tomoaia-Cotișel, M. Self-assembly characteristics of gold nanoparticles in the presence of arginine (2008) Journal of Optoelectronics and Advanced Materials, 10 (9), pp. 2293-2297.			
2.4	Horovitz, O., Tomoaia, G., Mocanu, A., Yupsanis, T., Tomoaia-Cotișel, M. Protein binding to gold auto-assembled films (2008) Gold Bulletin, 40 (4), pp. 295-304.			
3	M. Culea, O. Cozar, S. Nicoară, R. Podea Exposure Assessment of Nicotine and Cotinine by GC-MS Indoor and Built Environment 14, 293-299(2005)	10	0,462	1
3.1	Man, C.N., Gam, L.-H., Ismail, S., Lajis, R., Awang, R. Simple, rapid and sensitive assay method for simultaneous quantification of urinary nicotine and cotinine using gas chromatography-mass spectrometry (2006) Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 844 (2), pp. 322-327.			
4	S. Nicoara, M. Culea, A.N. Nica, E. Culea, O. Cozar Select Ion Monitoring-Gas Chromathography/Mass Spectrometry determination of Halothane Fumes in Operating Theaters Indoor and Built Environment 14(5), 405-410(2005)	10	0,462	1
4.1	Prokes, B., Mikov, I., Glavaski, M. The effect of occupational exposure to wasted halothane on liver functions of operating room personnel (2009) Polish Journal of Environmental Studies, 18 (5), pp. 893-899.			
5	M. Tomoaia – Cotișel, A. Mocanu, N. Leopold, M. Vasilescu, V. Chiș, O. Cozar FT – Raman and NMR investigation of the protein extracted from barley alelvone cell: J. Opt. Adv. Mater. 9(3), 637-640(2007)	40	0,827	4
5.1	Tomoaia, G., Borzan, C., Crisan, M., Mocanu, A., Horovitz, O., Bobos, L.-D., Tomoaia-Cotișel, M. Nanostructure formation of collagen and anti-cancer drugs investigated by atomic force microscopy (2009) Revue Roumaine de Chimie, 54 (5), pp. 363-372.			
5.2	Tomoaia, Gh., Tomoaia-Cotișel, M., Mocanu, A., Horovitz, O., Bobos, L.D., Crisan, M., Petean, I. Supramolecular organization of collagen and anti-cancer drugs (2008) Journal of Optoelectronics and Advanced Materials, 10 (4), pp. 961-964.			
5.3	Horovitz, O., Tomoaia, G., Mocanu, A., Yupsanis, T., Tomoaia-Cotișel, M. Protein binding to gold auto-assembled films (2008) Gold Bulletin, 40 (4), pp. 295-304.			
6	M. Rusu, O. Cozar, L. David, A. Marcu, R. Rusu, A. Stanilă Spectroscopic studies of copper (II) complexes with some amino acids J. Opt. Adv. Mater. 9(3), 741-746(2007)	20	0,827	2
6.1	Hübnera, M., Stanilab, A., Marcua, A., Cozara, I.B., David, L. Physico-chemical and spectroscopic investigations of new metallic complexes with phenylalanine as ligand (2009) AIP Conference Proceedings, 1131, pp. 197-202.			
6.2	Staniila, A., Nagy, Cs., Marcu, A., Cozma, D., Rusu, D., David, L. Spectroscopic investigations of new metallic complexes with leucine as ligand (2009) Nuclear Instruments and Methods in Physics Research, Section B: Beam Interactions with Materials and Atoms, 267 (2), pp. 419-421.			
7	N. Peica, C. Lehene, N. Leopold, O. Cozar, W. Kiefer Raman and surface-enhanced Raman studies of the food additives sodium benzoate Opt. Adv. Mater. 9(9), 2943-2948(2007)	10	0,827	1
7.1	Bhandari, D., Walworth, M.J., Sepaniak, M.J. Dual function surface-enhanced Raman active extractor for the detection of environmental contaminants (2009) Applied Spectroscopy, 63 (5), pp. 571-578.			
total		140		14

TOTAL

140,00

## 2. Alte citari ale lucrarilor listate mai sus

## TOTAL

## 3. Citari in perioada 2005-2009 ale articolelor anterioare anului 2005

nr. articol	titlu articol	punctaj	factor impact	nr. citări
1	O.Cozar, I.Ardelean, Gh.Ilonca EPR and magnetic susceptibility studies of the interaction between Cu <sup>2+</sup> and Mn <sup>2+</sup> ions in x(CuO.MnO) (1-x)[2B <sub>2</sub> O <sub>3</sub> .K <sub>2</sub> O] glasses Solide State Commun 44, 809-813(1982)	20	2,123	2
1.1	Toloman, D., Giurgiu, L.M., Ardelean, I. EPR investigations of calcium phosphate glasses containing manganese ions (2009) Physica B: Condensed Matter, 404 (21), pp. 4198-4201.			
1.2	Timar, V., Ardelean, I. Structural investigation of MnO-B <sub>2</sub> O <sub>3</sub> -PbO-Ag <sub>2</sub> O glass system by EPR spectroscopy (2008) Journal of Optoelectronics and Advanced Materials, 10 (12), pp. 3212-3216.			
2	I.Ardelean, Gh.Ilonca, O.Cozar, I.Chicinas, Gh. Ciologria Magnetic properties of xCuO(1-x)[2B <sub>2</sub> O <sub>3</sub> .PbO] glasses Solide State Commun 43, 707-709(1982)	10	2,123	1
2.1	Lakshminarayana, G., Buddhudu, S. Spectral analysis of Cu <sup>2+</sup> : B <sub>2</sub> O <sub>3</sub> -ZnO-PbO glasses (2005) Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 62 (1-3), pp. 364-371.			
3	I.Ardelean, O.Cozar, Gh.Ilonca EPR and magnetic susceptibility studies of xCuO(1-x)[2B <sub>2</sub> O <sub>3</sub> .Li <sub>2</sub> O] glasses Solide State Commun 50, 87-90(1984)	20	2,123	2
3.1	Lucacel, R.C., Ardelean, I. The B <sub>2</sub> O <sub>3</sub> /SrO ratio influence on the structural and magnetic properties of the CuO-B <sub>2</sub> O <sub>3</sub> -SrO glasses (2006) Physics and Chemistry of Glasses: European Journal of Glass Science and Technology Part B, 47 (4), pp. 530-533.			
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1.3	Rusu, D., Carrasco, M.F., Toderas, M., Ardelean, I. Influence of the preparation conditions and thermal treatment on the structure of the B2O3-BaO-Fe2O3 system (2005) International Journal of Modern Physics B, 19 (10), pp. 1821-1834.			
2	I.Ardelean, Gh.Ilonca, O.Cozar, V.Simon, S.Filip The valence states and magnetic interactions between iron ions in B2O3.PbO glasses Materials Letters 21, 321-324(1994)	60	0,729	6
2.1	Singh, R.K., Kothiyal, G.P., Srinivasan, A. Electron spin resonance and magnetic studies on CaO-SiO2-P2O5-Na2O-Fe2O3 glasses (2008) Journal of Non-Crystalline Solids, 354 (27), pp. 3166-3170.			

2.2	Ardelean, I., Lungu, R., Pascuta, P. EPR and magnetic susceptibility studies of iron ions in 3B 2O3-SrO glass matrix (2008) Journal of Optoelectronics and Advanced Materials, 10 (6), pp. 1306-1310.			
2.3	Ardelean, I., Timar, V. EPR and magnetic susceptibility investigations of B2O 3-PbO-Ag2O-Fe2O3 glasses (2008) Physics and Chemistry of Glasses: European Journal of Glass Science and Technology Part B, 49 (1), pp. 46-49.			
2.4	Ardelean, I., Toderas?, M., Filip, S. EPR and magnetic susceptibility studies of B2O 3-BaO glass matrix dopped with iron ions (2008) Journal of Optoelectronics and Advanced Materials, 10 (2), pp. 251-255.			
2.5	Ardelean, I., Lungu, R., Pa?s?cut?a?, P. Structural and magnetic properties of strontium-borate glasses containing iron ions (2007) Journal of Materials Science, 42 (14), pp. 5465-5469.			
2.6	Ardelean, I., Andronache, C., Ci?mpean, C., Pa?s?cut?a?, P. EPR and magnetic investigation of calcium - Phosphate glasses containing iron ions (2006) Journal of Optoelectronics and Advanced Materials, 8 (4), pp. 1372-1376.			
3	M. de la Fuente, O. Cozar, L. David, R. Navarro, A. Hernanz, I. Bratu EPR Study of the 1:1 complexes of chromium (III) and copper(II) with 5'-GMP and 5'-CMP Molecular and Biomolecular Spectroscopy, Spectrochimica Acta Part A53, 637-641(1997)	10	0,76	1
3.1	Santangelo, M.G., Medina-Molner, A., Schweiger, A., Mitrikas, G., Spingler, B. Structural analysis of Cu(II) ligation to the 5?-GMP nucleotide by pulse EPR spectroscopy (2007) Journal of Biological Inorganic Chemistry, 12 (6), pp. 767-775.			
4	D. Maniu, I. Ardelean, T. Iliescu, S. Cinta, O. Cozar Raman Spectroscopy investigations of oxide glass system (1x)(3B2O3.K2O)xMO(MO=V2O5 or CuO) J. Molec. Structure 410/411, 291-294(1997)	50	0,837	5
4.1	Nadimov, F., Zogic, M., Lec, A., Weng, H., G. Spiroconjugation over a boron atom: Facile synthesis, structures and vibrational spectra of crystalline 1,3-disubstituted (propen-1,3-diolato)(oxalato)boron molecules [Macedonian Source] (2009) Macedonian Journal of Chemistry and Chemical Engineering, 28 (1), pp. 55-77.			
4.2	Manara, D., Grandjean, A., Neuville, D.R. Advances in understanding the structure of borosilicate glasses: A raman spectroscopy study (2009) American Mineralogist, 94 (5-6), pp. 777-784.			
4.3	Osipov, A.A., Osipova, E.M. Structure of glasses and melts in the Na2O-B2O 3 system from high-temperature Raman spectroscopic data: I. Influence of temperature on the local structure of glasses and melts (2009) Glass Physics and Chemistry, 35 (2), pp. 121-131.			
4.4	Szu, S., Lu, S.-G. AC impedance studies of V2 O5 containing glasses (2007) Physica B: Condensed Matter, 391 (2), pp. 231-237.			
4.5	Manara, D., Grandjean, A., Pinet, O., Dussossoy, J.L., Neuville, D.R. Sulfur behavior in silicate glasses and melts: Implications for sulfate incorporation in nuclear waste glasses as a function of alkali cation and V2O5 content (2007) Journal of Non-Crystalline Solids, 353 (1), pp. 12-23.			
5	S. Cinta, T. Iliescu, M. Venter, M. Vlasi, I. Marian, O. Cozar Vibrational and orientation studies of 2,4-diamino-6-phenyl-1,3,5 triazine on the silver colloidal silver surface J. Molec. Structure 410/411, 189-192(1997)	10	0,837	1
5.1	Santos Costa, J.C., Ando, R.A., Sant'ana, A.C., Rossi, L.M., Santos, P.S., Temperini, M.L.A., Corio, P. High performance gold nanorods and silver nanocubes in surface-enhanced Raman spectroscopy of pesticides (2009) Physical Chemistry Chemical Physics, 11 (34), pp. 7491-7498.			
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6.1	Bela'id, S., Landreau, A., Djebbar, S., Benali-Ba'itich, O., Khan, M.A., Bouet, G. Synthesis, characterisation and antifungal activity of a series of Cobalt(II) and Nickel(II) complexes with ligands derived from reduced N, N?-o-Phenylenebis(Salicylideneimine) (2008) Transition Metal Chemistry, 33(4), pp. 511-516			

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7.1	Juárez-Calderón, J.M., Negrón-Mendoza, A., Gómez-Vidales, V., Ramos-Bernal, S. Study of dosimetric properties of acetylsalicylic acid in pharmaceutical preparations by EPR spectroscopy (2009) Journal of Radioanalytical and Nuclear Chemistry, 280 (2), pp. 245-249.			
8	L.David, M.Rusu, O.Cozar, D. Rusu, M.Todica, C. Balan Spectroscopic and magnetic Investigations of Some Transition Metal Complexes with N-4-methoxyphenyl-N-4-chlorophenyl hydrazine as ligand J.Molec.Structure 482(1), 149-152(1999)	10	0,837	1
8.1	Sechi, M., Azzena, U., Delussu, M.P., Dallochio, R., Dessi, A., Cosseddu, A., Pala, N., Neamati, N. Design and synthesis of bis-amide and hydrazide-containing derivatives of malonic acid as potential HIV-1 integrase inhibitors (2008) Molecules, 13 (10), pp. 2442-2461.			
9	G.Damian, V.Miclaus, O.Cozar, M.Todica, L.David, D.Ristoiu EPR study of some copper heterocyclic azomethine complexes adsorbed on X and Y zeolites J.Molecular Structure 482(1), 287-289(1999)	20	0,837	2
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10	I.Haiduc, L.David, O.Cozar, R.Micu-Semeniuc, M.Armeneanu Spectroscopic and magnetic studies of some copper (II), chromium (III) and iron(III) complexes with dithiophosponate as ligand J.Molec.Structure 482(1), 153-157(1999)	30	0,837	3
10.1	Karakus, M., Yilmaz, H. Synthesis and characterization of Ni(II), Zn(II), and Cd(II) complexes with dithiophosponate derivatives (2006) Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya, 32 (6), pp. 437-443.			
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14	I.Ardelean, O. Cozar, Gh. Ilonca, V. Simon, V. Mih, C. Craciun, S. Simon EPR and magnetic susceptibility studies on V <sub>2</sub> O <sub>5</sub> -P <sub>2</sub> O <sub>5</sub> -PbO glasses J. Mater. Science: Mater. In Electronics 11, 401-404(2000)	10	0,638	1
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15	O. Cozar, I. Ardelean, I. Bratu, S. Simon, C. Craciun, L. David, C. Cefan IR and EPR studies on some lithium-borate glasses with vanadium ions J. Mol. Struct. 563-564, 421-425(2001)	80	0,849	8
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15.3	Cai, Q., Lu, B., Zhang, J., Shan, Y. Synthesis, structure and properties of (H <sub>2</sub> NCH <sub>2</sub> CH <sub>2</sub> NH <sub>3</sub> ) <sub>3</sub> {(VO) <sub>6</sub> [B <sub>10</sub> O <sub>16</sub> (OH) <sub>6</sub> ] <sub>2</sub> } • 11H <sub>2</sub> O (2008) Journal of Chemical Crystallography, 38 (5), pp. 321-325.			
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15.7	Chakradhar, R.P.S., Ramesh, K.P., Rao, J.L., Ramakrishna, J. Influence of mixed alkali on the spectral properties of vanadyl ions doped xNa <sub>2</sub> O-(30 - X)K <sub>2</sub> O-60B <sub>2</sub> O <sub>3</sub> glasses - An EPR and optical study (2005) Materials Research Bulletin, 40 (6), pp. 1028-1043.			
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16.3	Rustici, V.C.F., Caramori, G.F., Galembeck, S.E. Effects of the substituents on the hydrogen bond of 3-hydroxypropenal [Efeitos de substituintes na ligação de hidrogênio do 3-hidroxiopropenal] (2006) Quimica Nova, 29 (6), pp. 1187-1192.			
16.4	Yuan, L.-H., Wu, Q.-J., Liu, S.-X. (Morpholine-?N)(salicylaldehyde 4-nitrobenzoyl-hydronato- ?3O,N,O?)copper(II) (2005) Acta Crystallographica Section E: Structure Reports Online, 61 (7), pp. m1310-m1312.			
17	O. Cozar, I. Ardelean, V. Simon, Gh. Ilonca, C. Crăciun, C. Cefan EPR and magnetic susceptibility investigations of some vanadate-lithium-borate J. Alloys and Compounds 326, 124-127(2001)	100	0,845	10
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17.2	Rao, L.S., Reddy, M.S., Reddy, M.R., Veeraiah, N. Dielectric dispersion in Li <sub>2</sub> O-MoO <sub>3</sub> -B <sub>2</sub> O <sub>3</sub> glass system doped with V <sub>2</sub> O <sub>5</sub> (2008) Journal of Alloys and Compounds, 464 (1-2), pp. 472-482.			
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17.4	Farah, H. An EPR characterization of vanadium in CaO and Na <sub>2</sub> O based Al <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> glasses (2008) Journal of Alloys and Compounds, 453 (1-2), pp. 288-291.			

17.5	Yasoda, B., Sreekanth Chakradhar, R.P., Rao, J.L., Gopal, N.O. EPR and optical absorption studies of VO <sub>2</sub> <sup>+</sup> ions in alkaline earth aluminoborate glasses (2007) Materials Chemistry and Physics, 106 (1), pp. 33-38.			
17.6	Reddy, B.S., Buddhudu, S. Spectral analysis of Cu <sup>2+</sup> : B <sub>2</sub> O <sub>3</sub> -(TeO <sub>2</sub> /CdO/ZnO)-Li <sub>2</sub> O-AlF <sub>3</sub> glasses (2006) Indian Journal of Pure and Applied Physics, 44 (12), pp. 887-895.			
17.7	Krins, N., Rulmont, A., Grandjean, J., Gilbert, B., Lepot, L., Cloots, R., Vertruyen, B. Structural and electrical properties of tellurovanadate glasses containing Li <sub>2</sub> O (2006) Solid State Ionics, 177 (35-36), pp. 3147-3150.			
17.8	Prakash, P.G., Rao, J.L. VO <sub>2</sub> <sup>+</sup> ions in zinc lead borate glasses studied by EPR and optical absorption techniques (2005) Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 61 (11-12), pp. 2595-2602.			
17.9	Farah, H. An EPR characterization of vanadium in CaO and Na <sub>2</sub> O based AL <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> glasses (2005) TMS Annual Meeting, pp. 267-275.			
17.10	Sreekanth Chakradhar, R.P., Sivaramaiah, G., Lakshmana Rao, J., Gopal, N.O. EPR and optical studies of vanadyl ions in alkali lead borotellurite glasses (2005) Modern Physics Letters B, 19 (13-14), pp. 643-653.			
18	I.Ardelean, O. Cozar, C. Craciun, C. Cefan EPR and magnetic susceptibility studies of V <sup>4+</sup> ions in 2B <sub>2</sub> O <sub>3</sub> -SrO glass matrix Inter. Journal of Modern Physics B 16, 2807-2813(2002)	20	0,604	2
18.1	Sreekanth Chakradhar, R.P., Sivaramaiah, G., Lakshmana Rao, J., Gopal, N.O. EPR and optical studies of vanadyl ions in alkali lead borotellurite glasses (2005) Modern Physics Letters B, 19 (13-14), pp. 643-653.			
18.2	Chakradhar, R.P.S., Ramesh, K.P., Rao, J.L., Ramakrishna, J. Influence of mixed alkali on the spectral properties of vanadyl ions doped xNa <sub>2</sub> O-(30 - X)K <sub>2</sub> O-60B <sub>2</sub> O <sub>3</sub> glasses - An EPR and optical study (2005) Materials Research Bulletin, 40 (6), pp. 1028-1043.			
<b>total</b>		<b>650</b>		<b>65</b>

**TOTAL**

**650,00**

4. Distinctii, premii si alte recunoasteri nationale si internationale

- 1 Premiul ACADEMIEI "DRAGOMIR HURMUZESCU", 1983
- 2 Titlul de "lector universitar evidentiat", 1984

10,00

10,00

**TOTAL**

**20,00**

5. Studenti nationali atrasi (activitati de coordonare stiintifica si didactica)

- 1 Indrumare lucrari de licenta (numar lucrari sustinute)
- Indrumare lucrari de disertatie (numar lucrari sustinute)

75,00

60,00

**TOTAL**

**135,00**

Doctoranzi (lista nominala a doctoranzilor inmatriculati resp. lista nominala a tezelor sustinute)

- New techniques to evaluate organ motion and dose distribution accuracy in radiotherapy - drd.Both Stefan  
 Studiul prin spectrometrie de masă al gazelor implicate în producerea efectului de seră - drd. Elza Hauer  
 Obținerea și caracterizarea structurală a unor noi materiale oxidice - drd. D.A. Magdas  
 Structura locală și interacțiunea unor ioni tranziționali în matrici fosfatice cu aplicații optoelectronice - drd.Nicoleta Vedean  
 Corelări teoretico-experimentale în analiza compușilor de interes biomedical - drd.Adrian Pîrnău  
 Efecte izotopice în ciclul global al carbonului - drd.Gabriela Bălaș

**TOTAL**

**70,00**

70,00

6. Studenti internationali atrasi (activitati de coordonare stiintifica si didactica)

Doctoranzi (lista nominala a doctoranzilor inmatriculati resp. lista nominala a tezelor sustinute)		20,00
Structural and physical properties of some compounds with transitional and rare earth ions - drd.Christian Pelshenke		
<b>TOTAL</b>		<b>20,00</b>
7. Membru in comitetul de redactie la reviste ISI		
<b>TOTAL</b>		
8. Membru in comitetul de redactie la reviste BDI		
1 Membru in doua comitete de redactie		10,00
<b>TOTAL</b>		<b>10,00</b>
9. Participari la programe/granturi de cercetare finantate din sursa internationala (se mentioneaza si valoarea)		
<b>TOTAL</b>		
10. Participari la programe/granturi finantate din sursa nationala (se mentioneaza si valoarea)		
11. Coordonari de programe/granturi finantate din sursa internationala (se mentioneaza si valoarea)		
<b>TOTAL</b>		
12. Coordonari de programe/granturi finantate din sursa nationala (se mentioneaza si valoarea)		
1 Studii de structura si dinamica moleculara asupra unor combinatii complexe de interes biomedical		14,61
2 Studii spectroscopice si teoretice pe sisteme moleculare complexe de interes biomedical		77,66
3 Obținerea și caracterizarea de noi nanomedicamente–țintă cu substanță activă de natură naftochinonica		16,34
4 Met. fizice și computaționale perf. în Astrofizica Nucleară și aplic. pentru nuclee si fascicule radioactive		3,35
<b>TOTAL</b>		111,95
<b>TOTAL</b>		<b>223,90</b>
13. Profesor invitat la universitati de prestigiu, cu titlu oficial		
<b>TOTAL</b>		
14. Membru in comisii profesionale relevante, cu titlu oficial		
<b>TOTAL</b>		
15. Conferinte invitate international		
<b>TOTAL</b>		
16. Membru in comitete de organizare sau stiintifice ale unor conferinte internationale		
1 Membru in comitetul de organizare la Conferintele NANOSPEC 2006 si 2008		40,00
<b>TOTAL</b>		40,00
<b>TOTAL CRITERIUL II</b>		<b>2578,90</b>

**CRITERIUL III -Realizare remarcabila**



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TOTAL CRITERIUL III

**TOTAL PUNCTAJ**

**3193,35**

Data: 16.03.2010  
Certific validarea datelor prezentate

Semnatura,

Decan,  
Prof.dr. Onuc Cozar