UNIVERSITATEA BABEŞ-BOLYAI
COMPETIŢIA EXCELENŢEI 2010

Dosar individual

Nume, prenume, grad did.	ONUC COZAR, PROFESOR DR.
Facultatea, Catedra	Fizică, Fizică Biomedicalaă
Domeniul ştiinţific	Fizică
Adresa paginii web personale	
Adresa e-mail	onuc.cozar@phys.ubbcluj.ro

Criteriul I – Output

1. Articole ştiinţifice publicate în reviste indexate ISI (cu menţionarea factorului de impact în cazul celor cotate)
   58 articole = 3930,40 puncte
2. Articole ştiinţifice publicate în ISI proceeding
   3 articole = 13 puncte
3. Articole ştiinţifice indexate în BDI (din lista CNCSIS) şi în reviste româneşti recunoscute de CNCSIS tip B şi B*
   27 articole = 65,43 puncte
6. Cărţi ştiinţifice publicate în edituri naţionale acreditate
   3 cărţi = 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. Distincţii, premii şi alte recunoaşteri naţionale şi internaţionale
   2 premii = 20 puncte
5. Studenţi naţionali ataşi (activităţi de coordonare ştiinţifică şi didactică)
   - Indrumare lucrari de licenta = 75 puncte
   - Indrumare lucrari de dizertatie = 60 puncte
   - 7 doctoranzi = 70 puncte
6. Studenţi internaţionali ataşi (activităţi de coordonare ştiinţifică şi didactică)
   1 doctoranzi = 20 puncte
8. Membru in comitetul de redactie la reviste BDI
   2 reviste = 10 puncte
12. Coordonări de programe/granturi finanţate din sursă naţională
   4 granturi = 223,90 puncte
16. Membru în comitete de oeganizare sau ştiinţifice ale unor conferinţe internaţionale
   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 Semnătura,
Certific validarea datelor prezentate

Decan,
Prof.dr. Onuc Cozar

Universitatea Babes-Bolyai
COMPETITIA EXCELENTEI 2010
Dosar individual

Nume, prenume, grad did.:	**ONUC COZAR, PROFESOR DR.**
Facultatea, Catedra:	**Fizica, Fizica Biomedicala**
Domeniul stiintific:	**Fizica**
Adresa paginii web personale:	
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CRITERIUL I - Output

1. Articole stiintifice publicate in reviste indexate ISI

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)	61,76
2	D. A. Magdaş, *O. Cozar*, I. Ardelean, L. David Spectroscopic studies of some phosphate glasses with molibdenum ions Inter. J. Of Modern Physics B (I. J.M.P.B.) **19(10),** 1815-1820(2005)	27,08
3	A.V. Pop, C. Pelshenke, *O. Cozar* Structural instability and supraconductivity of the (Nd, Gd, Ce)$_2$CuO$_4$ system Modern Physics Letters B **16**, 607-611(2005)	36,10
4	C. Pelshenke, A.V. Pop, *O. Cozar* Structural phase diagram for thermal controlled distorsion by Gd ions in the $(Nd_{1-y}Gd_y)_{1.85}Ce_{0.15}CuO_4$ HTS system Inter. J. Of Modern Physics B **19**, 2161-2166(2005)	36,10
5	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)	104,49
6	C. Bâtiu, C. Jelic, N. Leopold, O. Cozar, L. David Spectroscopic investigation of new Cu(II), Co(II), Ni(II)complexes with γ- L-glutamyl amide as ligand J. Molec. Structure **744-747**, 325-330(2005)	72,00
7	M. Culea, *O. Cozar*, E. Culea PAHs in Cigarette Smoke by Gas Cromatography-mass Spectrometry Indoor and Built Environment **14**, 283-292(2005)	46,20
8	M. Culea, *O. Cozar*, C. Melian, D. Ristoiu GC/MS measurements of ambient levels volatile organic compounds Indoor and Built Environment **14**, 241-247(2005)	34,65
9	M. Tomoaia- Cotişel, 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)	8,53
10	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)	34,65
11	S. Nicoara, M. Culea, A.N. Nica, E. Culea, *O. Cozar* Select Ion Monitoring-Gas Chromathography/Mass Spectrometry determination of Halothane Fumes in Operating Theater Indoor and Built Environment **14(5),** 405-410(2005)	27,72
12	*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)	8,57
13	M. Baias, A. Pîrnău, V. Chiş, *O. Cozar*, M. Vasilescu	68,28

	Experimental and theoretical investigation of 5-para-fluoro-benziliden-tiazolidin-2tion-4-ona Journal of Optoelectronics and Advanced Materials**8,** 205-208(2006)	
14	*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)	85,35
15	N. Vedeanu, *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)	85,35
16	*O. Cozar,* D. A. Magdas, L. Nasdala, I. Ardelean, G. Damian Raman spectroscopic study of some lead phosphate glassel with tungsten ions J. Non-Crystalline Solids **352**, 3121-3125(2006)	75,84
17	C. Pelshenke, *O. Cozar* , A. V. Pop Structural instability under pressure in the (Nd, Gd, Ce}CuO_4 compound Journal of Optoelectronics and Advanced Materials**8**, 1283-1286(2006)	113,80
18	N. Vedeanu, *O. Cozar* , I. Ardelean, S. Filip Spectroscopic investigation on some calcium-phosphate glasses Journal of Optoelectronics and Advanced Materials**8**, 1135-1139(2006)	85,35
19	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)	48,77
20	M. Culea**,** *O. Cozar* , D. Ristoiu Methods Validation for THMs Determination in Drinking Water J. Mass Spectrometry **41**, 1594-1597(2006)	357,40
21	*O. Cozar* , A. Magdas , I. Ardelean Spectroscopic investigation of some lead-phossphate glasses with tungsten and molybdenum ions J. Opt. Adv. Mater. **9(6),** 1730 – 1735(2007)	82,70
22	A. Magdas, *O. Cozar* , I. Ardelean, V. Ioncu The structural changes induced by the addition of MoO3 and Fe2O3 in lead-phosphate glasses J. Opt. Adv. Mater. **9(4),** 822 – 824(2007)	62,03
23	N. Vedeanu, *O. Cozar* , I. Ardelean, V. Ioncu EPR and Raman investigation of some lead - phosphate glasses with vanadium and copper ions J. Opt. Adv. Mater. **9(4),** 844 -847(2007)	62,03
24	M. Hossu, D. Rusu, M. Rusu, *O. Cozar* , C. Paşca, L. David Spectroscopic investigation of tetranuclear cluster encapsulated in some polyoxometalates complexes J. Opt. Adv. Mater. **9(4),** 1000-1004(2007)	41,35
25	M. Tomoaia – Cotişel, A. Mocanu, N. Leopold, M. Vasilescu, V. Chiş,*O. Cozar* FT – Raman and NMR investigation of the protein extracted from barley alenvone cells J. Opt. Adv. Mater. **9(3),** 637-640(2007)	41,35
26	A. Pîrnau, V.Chis, *O. Cozar* , M. Vasilescu, S. Simon Experimental and DFT Investigation of 5-Para-Nitro-Benziliden-Tiazolidin 2-Tion-4-Ona J. Opt. Adv. Mater. **9(3),** 547 – 550(2007)	49,62
27	Szabo L., V. Chiş, A. Pîrnău, *O. Cozar* , Orosz Sz. Theoretical and experimental study of aripriprazole molecule J. Opt. Adv. Mater**. 9(3),** 599 – 604(2007)	49,62
28	N. Vedeanu, *O. Cozar* , I. Ardelean IR and EPR investigation of $V_2O_5 – P_2O_5 – CaF_2$ glass system J. Opt. Adv. Mater. **9(3),** 698-701(2007)	82,70
29	A. Măgdaş, *O. Cozar* , I. Ardelean, L. David Infrared spectra of WO3 – PbO – P2O5 glasses J. Opt. Adv. Mater. **9(3),** 729-732(2007)	62,03
30	V. Chiş , M. Venter, C. Lehene, M. Vasilescu, N. Leopold,*O. Cozar* Bis-aniline compounds as potential candidates for molecular electronics: Experimental and DFT investigation on 4,4'-diaminodiphenyloxide J. Opt. Adv. Mater. **9(3),** 788-794(2007)	41,35

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

49	A. Iordache, M. Culea, *O. Cozar* Rapid authentification of natural juices by GC/MS Chemické Listy Journal, **102**, s665-666(2008)	68,30
50	A. Iordache, M. Culea, *O. Cozar* Comparative extraction methods of some biologic active compounds in herbs Chemické Listy Journal, **102**, s667-669(2008)	68,30
51	V.Chiş, M.M.Venter, N.Leopold, *O.Cozar* Raman, surface-enhanced Raman scattering and DFT study of para-nitro-aniline Vibrational Spectroscopy, **48**, 210-241(2008)	135,75
52	O.Cozar, D.A.Măgdaş, N.Vedeanu, I.Ardelean EPR study of some lead-phosphate glasses J.Optoelectrinics Advanced Materials, **10**(11), 3038-3040(2008)	56,25
53	N. Leopold, L. Szabo, A. Pîrnău, M. Aluaş, L.F. Leopold, V. Chiş, *O. Cozar* Raman spectroscopic and DFT theoretical study of 4-(2-pyridylazo) resorcinol and its complexes with zinc(II) and copper(II) J. Molecular Structure, **919**, 94-99(2009)	68,31
54	A.Pîrnău, 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.Pîrnău, N.Leopold, *O.Cozar*, Sz.Orosz Spectroscopic and theoretical study of amplodipine besylate J. Molec.Structure, 924-926, 385-392(2009)	79,70
56	A. Iordache, M. Culea, C. Gherman, *O. Cozar* 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, *O.Cozar* Spectroscopic studies of the inclusion compound of lisinopril with β-cyclodextrin Spectroscopy**, 23,** 191-199(2009)	41,00
58	A.Iordache, M.Culea, *O.Cozar* Characterization of some extracts for therapeutic use by GC/MS Journal of Physics: Conference Series, **182**, 1-5(2009)012027	100,00
TOTAL		**3930,40**

2. Articole stiintifice publicate in ISI proceedings

b	1	C. Cosma, *O. Cozar*, 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. McLanghlin, S. E. Simopanlos, F. Steinhausler Eds), Elsevier, Amsterdam, New York, Tokyo, 2005, p. 699-705	4,00
	2	L. Daraban, Laura Daraban, *O. Cozar*, R. Adam-Rebeles The Use of Isotopic Neutron Sources for some Radionuclides Production in Nuclear and other Domains of Science 5th International Conference on Isotopes (5 ICI), Brussels, International Proceedings, Medimond, F425RO170, 2005, p. 257-26	5,00
	3	M.Culea, E.Culea, *O.Cozar*, 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
TOTAL			**13,00**

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, *O. Cozar*, G. Mureşan Application of Stable Isotopes (^{18}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, *O. Cozar*, 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,*O. Cozar*, 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,*O. Cozar*, I. Fenesan Study of the kinetic energy release in metastable ions cleavage for n-methyl p-substituted arylsulfonamido thiophosphororganic derivates Studia UBB, ser. Physica, PIM 2005, 4	1,67
5	Laura Daraban, *O. Cozar*, 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, *O. Cozar*, 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, *O. Cozar* 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, *O. Cozar*, D. Cenan Solar thermal heat pipe active systems Studia UBB, ser. Physica, PIM 2005, 4	2,00
9	D. Ristoiu, C. Cosma, T. Ristoiu, *O. Cozar*, D. Cenan Design and performance of the active solar collector Studia UBB, ser. Physica, PIM 2005, 4	2,00
10	M. Culea, S. Neamtu, *O. Cozar* Amino acids transmembranar transport study Revista Medico-Chirurgicala	3,33
11	M. Iosin, M. Culea, *O. Cozar*, 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. Bălaş, *O. Cozar* Using stable isotopes to identify geographical origin of wines Studia UBB, ser. Physica	2,50
13	D. A. Măgdaş, *O. Cozar*, I. Ardelean, N. Vedeanu Raman Spectroscopy of lead-phosphate glasses with iron ions Studia UBB, ser. Physica	2,50
14	La. Dărăban, *O. Cozar*, 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, *O. Cozar* Magnetic Field simulation for Mouse® design using Vector Fields™ Opera 3D Studia UBB, ser. Physica	2,00
16	N. Vedeanu, *O. Cozar*, I. Ardelean, D. A. Măgdaş, The structure of CuO-P_2O_5-CaF_2 glass system Studia UBB, ser. Physica	2,50
17	M.Culea, *O.Cozar* Spectroscopic methods for rapid diagnosis Acta electronica	5,00
18	M.Culea, A.Iordache, M.Chiriac, C.Lehene,*O.Cozar* Rapid diagnosis of cirrhosis by isotopic dilution gas chromatography-mass spectrometry Acta electronica	2,00
19	Laura Dărăban, *O.Cozar*, L.Dărăban Production of the medical radioisotope ^{64}Cu at a cyclotron by deuteron induced reactions on euriched ^{64}Ni targets Studia UBB, ser. Physica	3,33
20	A.Iordache, M.Culea, C.Lehene,*O.Cozar* GC/MS analysis of wines Studia UBB, ser.Physica	2,50

21	A.Iordache, C.Mesaros, M.Culea, *O.Cozar* Statistics for cirrhosis diagnosis by GC/MS Studia UBB, ser.Physica	2,50
22	C.Mesaros, A.Iordache, M.Culea, C.Crăciun, *O.Cozar*, R.Fechete, E.Culea Sea Buckthorn Oil Study by GC/MS anf IR Studia UBB, ser.Physica	1,43
23	C.Mesaroş, M.Culea, A.Iordache, *O.Cozar* GC-MS caracterization of the compounds in some Essential Oils Buletin USAMV Agriculture	2,50
24	A.Iordache, C.Mesaroş, *O.Cozar*, M.Culea Determination of theophylline in biological fluids by isotopic dilution nass spectrometry Studia UBB, ser.Physica	2,50
25	L.M.Andronie, S.Cîntă-Pînzaru, N.Peica, N.Leopold, *O.Cozar* SERS investigation of paracetamol adsorbed on Ag island films Studia UBB, ser.Physica	2,00
26	A.Iordache, M.Culea, *O.Cozar* A Study on Trace Metals in Airborne Particulate Matter Using ICP-MS Technique Studia UBB, ser.Physica	3,33
27	C.Mesaroş, M.Culea, A.Iordache, *O.Cozar*, 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 radiaţii. Spectroscopie gama *O. Cozar* Presa Univ. Clujeană, 2007(300 p), ISBN: 978-973-610-520-3	60,00
	E. Hauer, *O. Cozar*, S. Cună, G. Bălaş, C. Nichita Izotopii carbonului şi încălzirea globală Ed. Napoca Star, 2007(120 p), ISBN 978-973-647-541-2	4,80
	V. Chiş, *O. Cozar*, 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
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
	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
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	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.		
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total			**500,00**	

TOTAL **500,00**

nr. articol	**titlu articol**		**punctaj**	**factor impact**
1	M. Culea, O. Cozar, E. Culea PAHs in Cigarette Smoke by Gas Cromatography-mass Spectrometry Indoor and Built Environment 14, 283-292(2005)		10	0,462
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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
	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 – Cotişel, A. Mocanu, N. Leopold, M. Vasilescu, V. Chiş, O. Cozar FT – Raman and NMR investigation of the protein extracted from barley alenvone cells J. Opt. Adv. Mater. 9(3), 637-640(2007)		40	0,827
	5.1	Tomoaia, G., Borzan, C., Crisan, M., Mocanu, A., Horovitz, O., Bobos, L.-D., Tomoaia-Cotisel, 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-Cotisel, 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.		
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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
	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**	
	TOTAL		**140,00**	

2. Alte citari ale lucrarilor listate mai sus

TOTAL

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nr. articol	titlu articol		punctaj	factor impact
1	O.Cozar, I.Ardelean, Gh.Ilonca EPR and magnetic susceptibily studies of the interaction between Cu2+ and Mn2+ ions in x(CuO.MnO) (1-x)[2B2O3.K2O] glasses Solide State Commun 44, 809-813(1982)		20	2,123
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2	I.Ardelean, Gh.Ilonca, O.Cozar, I.Chicinas, Gh. Ciologria Magnetic properties of xCuO(1-x)[2B2O3.PbO] glasses Solide State Commun 43, 707-709(1982)		10	2,123
	2.1	Lakshminarayana, G., Buddhudu, S. Spectral analysis of Cu2+: B2O3-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)[2B2O3.Li2O] glasses Solide State Commun 50, 87-90(1984)		20	2,123
	3.1	Lucacel, R.C., Ardelean, I. The B2O3/SrO ratio influence on the structural and magnetic properties of the CuO-B2O3-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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	4.1	El-Batal, F.H. Gamma ray interaction with copper-doped sodium phosphate glasses (2008) Journal of Materials Science, 43 (3), pp. 1070-1079.		
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5	O.Cozar, I.Ardelean, S.Simon, L.David ESR Studies of Mo5+ ions in potassium-borate and soda-Phosphate glasses Solide State Commun. 85, 461-465(1993)		20	1,764
	5.1	Radha, K.C., Anavekar, R.V., Rao, J.L., Chakradhar, R.P.S. EPR and optical studies of Mo5+ ions in lithium molybdoborate glasses (2008) Applied Magnetic Resonance, 35 (1), pp. 1-13.		
	5.2	Farges, F., Siewert, R., Brown Jr., G.E., Guesdon, A., Morin, G. Structural environments around molybdenum in silicate glasses and melts. I. Influence of composition and oxygen fugacity on the local structure of molybdenum (2006) Canadian Mineralogist, 44 (3), pp. 731-753.		

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	6.3	Kumar, V.R., Rao, J.L., Gopal, N.O. EPR and optical absorption studies of Cr3+ ions in alkaline earth alumino borate glasses (2006) Journal of Materials Science, 41 (7), pp. 2045-2053.		
	6.4	Naga Raju, G., Veeraiah, N., Nagarjuna, G., Satyanarayana, P.V.V. The structural role of chromium ions on the improvement of insulating character of ZnO-ZnF2-B2O3 glass system by means of dielectric, spectroscopic and magnetic properties (2006) Physica B: Condensed Matter, 373 (2), pp. 297-305.		
	6.5	Ardelean, I., Filip, S. EPR and magnetic investigations of chromium ions in TeO2 based glasses (2005) Journal of Optoelectronics and Advanced Materials, 7 (2), pp. 745-752.		
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	8.1	Sechi, M., Azzena, U., Delussu, M.P., Dallocchio, R., Dessì, 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
	9.1	Akdogan, Y., Vogt, C., Bauer, M., Bertagnolli, H., Giurgiu, L., Roduner, E. Platinum species in the pores of NaX, NaY and NaA zeolites studied using EPR, XAS and FTIR spectroscopies (2008) Physical Chemistry Chemical Physics, 10 (20), pp. 2952-2963.		
	9.2	Berthomieu, D., Delahay, G. Recent advances in CuI/IIY: Experiments and modeling (2006) Catalysis Reviews - Science and Engineering, 48 (3), pp. 269-313.		
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
	10.1	Karakus, M., Yilmaz, H. Synthesis and characterization of Ni(II), Zn(II), and Cd(II) complexes with dithiophosphonate derivatives (2006) Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya, 32 (6), pp. 437-443.		
	10.2	Haiduc, I., Mezei, G., Micu-Semeniuc, R., Edelmann, F.T., Fischer, A. Differing coordination modes of (O-alkyl)-p-ethoxyphenyldithiophosphonato ligands in copper(I), silver(I) and gold(I) triphenylphosphine complexes (2006) Zeitschrift fur Anorganische und Allgemeine Chemie, 632 (2), pp. 295-300.		
	10.3	Karakus, M., Yilmaz, H., Bulak, E. Synthesis and characterization of Zn(II) and Cd(II) complexes with bisdithiophosphonates (2005) Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya, 31 (5), pp. 316-321.		
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	11.1	Gil, A., Simon, S., Rodríguez-Santiago, L., Bertrán, J., Sodupe, M. Influence of the side chain in the structure and fragmentation of amino acids radical cations (2007) Journal of Chemical Theory and Computation, 3 (6), pp. 2210-2220.		
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12	S.Cinta, T.Iliescu, S.Astilean, L.David, O.Cozar, W.Kiefer 1,4-Benzodiazepine drugs adsorbtion on the Ag colloidal surface J.Molecular Structure 482(1), 685-688(1999)		30	0,837

	12.1	Mishra, S., Ojha, A.K., Singh, D., Prasad, R.R., Srivastava, S.K., Singh, R.K. Concentration-dependent surface-enhanced Raman scattering and molecular dynamic study of dimethyl formamide (2007) Journal of Raman Spectroscopy, 38 (11), pp. 1454-1460.		
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	12.3	Sackmann, M., Materny, A. Surface enhanced Raman scattering (SERS) - A quantitative analytical tool? (2006) Journal of Raman Spectroscopy, 37 (1-3), pp. 305-310.		
13	S. Canta, E. Vogel, D. Maniu, M. Aluas, T. Iliescu, O.Cozar, W. Kiefer SERS mechanisms of the vitamin PP on different Au and Ag surfaces J. Molec. Structure 482-483, 679-684(1999)		90	0,837
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	13.2	Ojha, A.K., Singh, R.K. Optical absorption spectra of coinage metals (Cu, Ag, Au) nanorods: A theoretical study (2008) Journal of Computational and Theoretical Nanoscience, 5 (11), pp. 2194-2200.		
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	13.4	Ojha, A.K., Singh, R.K. Optical absorption spectra of coinage metals (Cu, Ag, Au) nanorods: A theoretical study (2008) Journal of Computational and Theoretical Nanoscience, 5 (7), pp. 1255-1262.		
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	13.8	Sajan, D., Fischer, A., Joe, I.H., Jayakumar, V.S. Surface-enhanced Raman scattering and the adsorption behavior of (RS)-phenylsuccinic acid (2006) Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 64 (3), pp. 580-585.		
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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 V2O5-P2O5-PbO glasses J. Mater. Science: Mater. In Electronics 11, 401-404(2000)		10	0,638
	14.1	Chakradhar, R.P.S., Ramesh, K.P., Rao, J.L., Ramakrishna, J. Influence of mixed alkali on the spectral properties of vanadyl ions doped xNa2O-(30 - X)K2O-60B2O3 glasses - An EPR and optical study (2005) Materials Research Bulletin, 40 (6), pp. 1028-1043.		
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	15.3	Cai, Q., Lu, B., Zhang, J., Shan, Y. Synthesis, structure and properties of (H2NCH2CH 2NH3)3 {(VO)6 [B10O 16 (OH)6]2} • 11H2O (2008) Journal of Chemical Crystallography, 38 (5), pp. 321-325.		
	15.4	Sindhu, S., Sanghi, S., Rani, S., Agarwal, A., Seth, V.P. Modification of structure and electrical conductivity of cadmium borate glasses in the presence of V2O5 (2008) Materials Chemistry and Physics, 107 (2-3), pp. 236-243.		
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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 xNa2O-(30 - X)K2O-60B2O3 glasses - An EPR and optical study (2005) Materials Research Bulletin, 40 (6), pp. 1028-1043.		
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16	L. David, C. Craciun, O. Cozar, V. Chis, C. Agut, D. Rusu, M. Rusu Spectroscopic studies of some oxygen-bonded copper(II) β-diketonates complexes J. Mol. Struct. 563-564, 573-578(2001)		40	0,849
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	16.2	Uçar, I., Bulut, I., Bulut, A., Karada?, A. Polymeric and monomeric dipicolinate complexes with 4-hydroxymethyl pyridine: Spectral, structural, thermal and electrochemical characterization (2009) Structural Chemistry, 20 (5), pp. 825-838.		
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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
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	17.2	Rao, L.S., Reddy, M.S., Reddy, M.R., Veeraiah, N. Dielectric dispersion in Li2O-MoO3-B2O3 glass system doped with V2O5 (2008) Journal of Alloys and Compounds, 464 (1-2), pp. 472-482.		
	17.3	Mukherjee, S., Pal, A.K. Size-dependent magnetic properties of VO2 nanocrystals dispersed in a silica matrix (2008) Journal of Physics Condensed Matter, 20 (25), art. no. 255202, .		
	17.4	Farah, H. An EPR characterization of vanadium in CaO and Na2O based Al2O3-SiO2 glasses (2008) Journal of Alloys and Compounds, 453 (1-2), pp. 288-291.		

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	17.6	Reddy, B.S., Buddhudu, S. Spectral analysis of Cu2+: B2O3-(TeO 2/CdO/ZnO)-Li2O-AlF3 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 Li2O (2006) Solid State Ionics, 177 (35-36), pp. 3147-3150.		
	17.8	Prakash, P.G., Rao, J.L. VO2+ 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 Na2O based AL2O3-SiO2 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 V4+ ions in 2B2O3·SrO glass matrix Inter. Journal of Modern Physica B 16, 2807-2813(2002)		20	0,604
	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 xNa2O-(30 - X)K2O-60B2O3 glasses - An EPR and optical study (2005) Materials Research Bulletin, 40 (6), pp. 1028-1043.		
total			**650**	

TOTAL **650,00**

4. Distinctii, premii si alte recunoasteri nationale si internationale

1	Premiul ACADEMIEI "DRAGOMIR HURMUZESCU",1983	10,00
2	Titlul de "lector universitar evidentiat", 1984	10,00
TOTAL		**20,00**

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

1	Indrumare lucrari de licenta (numar lucrari sustinute)	75,00
	Indrumare lucrari de disertatie (numar lucrari sustinute)	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
Obţinerea şi caracterizarea structurală a unor noi materiale oxidice - drd. D.A. Magdas
Structura locală şi interacţiunea unor ioni tranziţionali în matrici fosfatice cu aplicaţii optoelectronice - drd.Nicoleta Vedean
Corelări teoretico-experimentale în analiza compuşilor de interes biomedical - drd.Adrian Pîrnău
Efecte izotopice în ciclul global al carbonului - drd.Gabriela Bălaş

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)

Structural and physical properties of some compounds with transitional and rare earth ions - drd.Christian Pelshenke	20,00
TOTAL	**20,00**

7. Membru in comitetul de redactie la reviste ISI

TOTAL

8. Membru in comitetul de redactie la reviste BDI

1	Membru in doua comitete de redactie	10,00
TOTAL		**10,00**

9. Participari la programe/granturi de cercetare finantate din sursa internationala (se mentioneaza si valoarea)

TOTAL

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)

TOTAL

12. Coordonari de programe/granturi finantate din sursa nationala (se mentioneaza si valoarea)

1	Studii de structura si dinamica moleculara asupra unor combinaţii complexe de interes biomedical-Contr.nr.27687/2005, 146.050RON	14,61
2	Studii spectroscopice şi teoretice pe sisteme moleculare complexe de interes biomedical-Contr.IDEI, cod ID-501/2007, 776.558,48RON	77,66
3	Obţinerea şi caracterizarea de noi nanomedicamente–ţintă cu subst. activă de natură naftochinonica-C.Part.Valcea,61-002/2007,163.387,49RON	16,34
4	Met.fizice şi computaţionale perf. în Astrofizica Nucleară şi aplic. pentru nuclee si fasc. radioactive-C.Part.Buc.,cod71-112/2007,33.500RON	3,35
TOTAL		111,95
TOTAL		**223,90**

13. Profesor invitat la universitati de prestigiu, cu titlu oficial

TOTAL

14. Membru in comisii profesionale relevante, cu titlu oficial

TOTAL

15. Conferinte invitate international

TOTAL

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
TOTAL		40,00

TOTAL CRITERIUL II 2578,90

CRITERIUL III -Realizare remarcabila

In ultima perioadă (2005-2009) am dezvoltat un amplu studiu asupra unor ***medicamente noi cu proprietăţi antivirale, antimicrobiene*** (pirazinamida (PZA) şi derivaţi benziliden-tiazolidinici (DTT)) preparate la Facultatea de Farmacie din Cluj-Napoca precum si asupra unor ***medicamente cu proprietati cardiovasculare (dofetilida, amplodipina, deferoxamina)*** utilizând spectroscopia vibraţională, rezonanţa magnetică nucleară, precum şi difracţia de raze X pe monocristale. Prin calcule DFT utilizând funcţionalele de schimb şi corelare B3LYP cu setul de bază 6-31(Gd) şi având în vedere datele experimentale obţinute, au fost ***identificaţi şi optimizaţi structural o serie de conformeri şi tautomeri*** ai acestora, determinate energiile lor totale şi speciile cele mai stabile în soluţii. Rezultatele obtinute au fost publicate in ***10 articole cotate ISI*** (J.Molec.Structure, Chem.Phys., Journal of Optoelectronics and Advanced Materials, Vibrational Spectroscopy) dintre care lucrarea "Experimental and DFT Study of Pyrazinamide", Chem.Phys., 316, 153-163(2005) are peste 12 citari in reviste din strainatate cotate ISI.
Au fost evidentiate de asemenea o serie de ***interactiuni intermoleculare cat si intramoleculare*** cu schimbarea unor tautomeri tiolici in tionici si aparitia unor formatiuni dimere realizate prin punti de hidrogen. Aceste rezultate au facut totodata obiectul si a doua teze de doctorat, Adrian Pirnau - 2007 si Szabo Laslo - 2009.

TOTAL CRITERIUL III

TOTAL PUNCTAJ *3236,85*

Data: 16.03.2010
Certific validarea datelor prezentate

Semnatura,

Decan,
Prof.dr. Onuc Cozar

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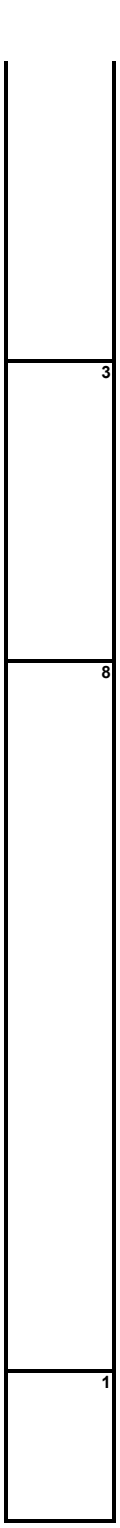
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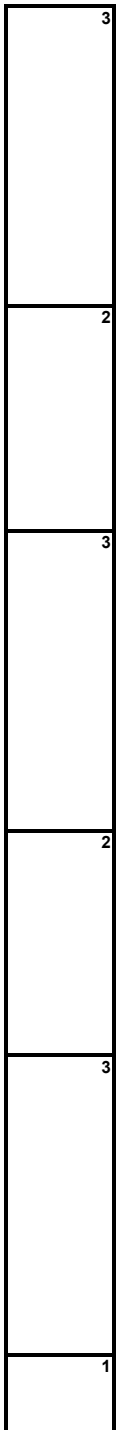
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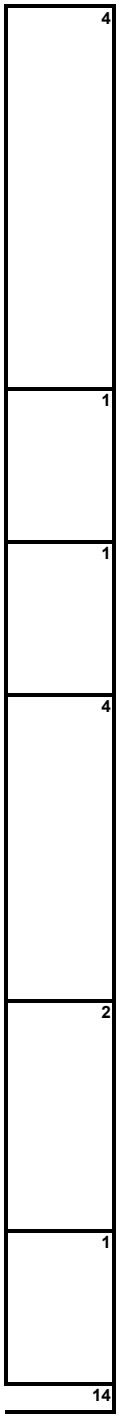
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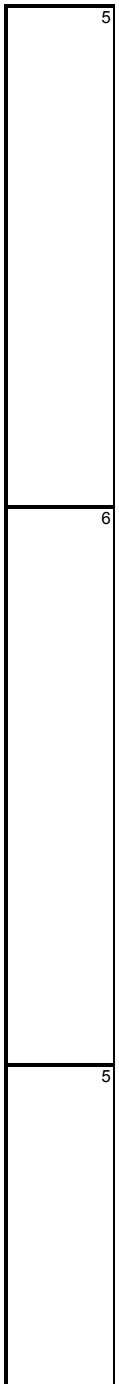
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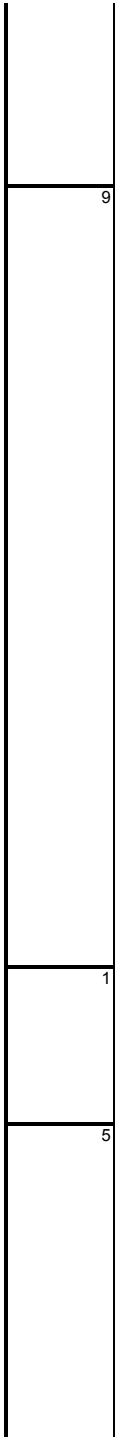
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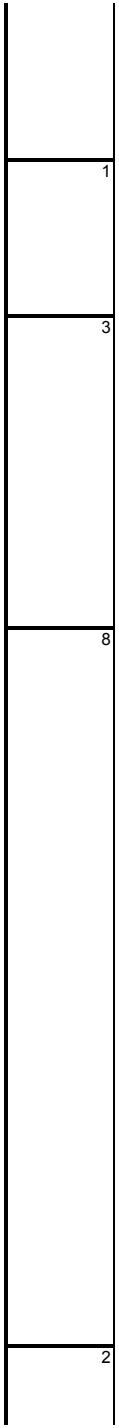
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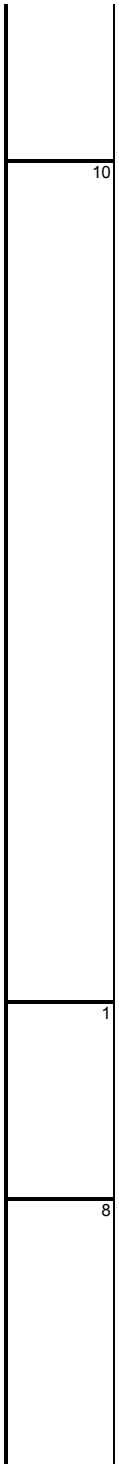
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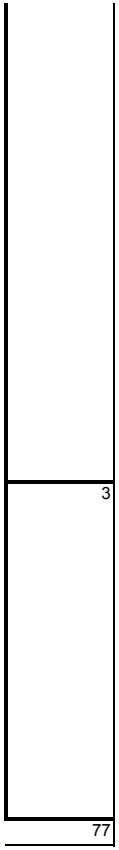
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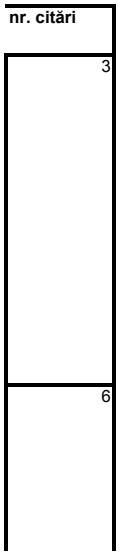
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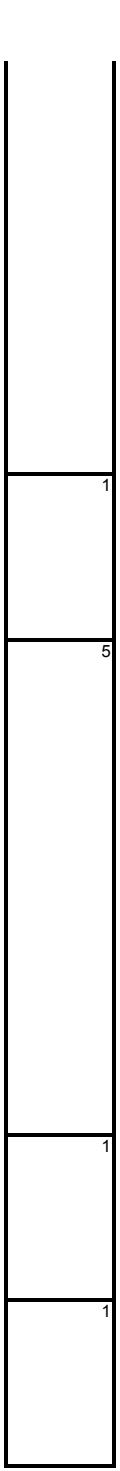
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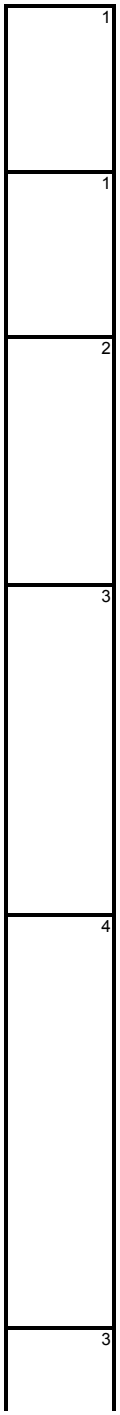
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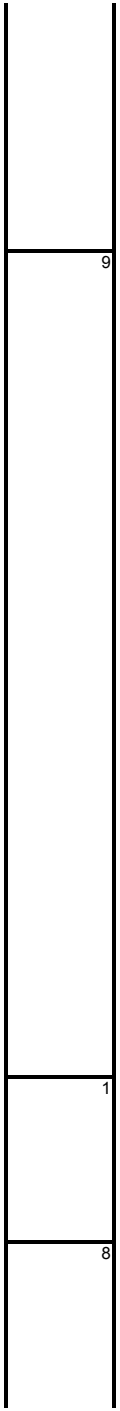
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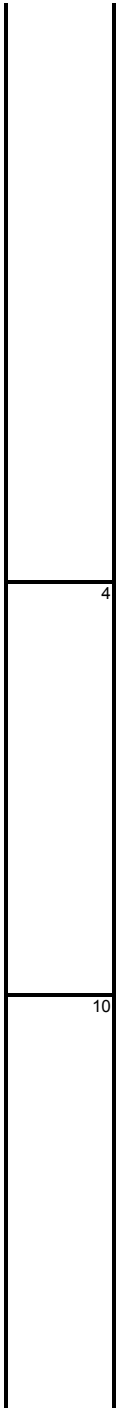
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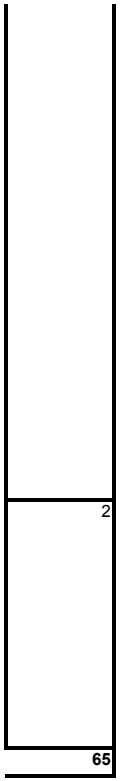
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