

Universitatea Babeş-Bolyai
COMPETITIA EXCELENTEI 2010
Dosar individual

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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 39 , 169-176(2005)	61,76
2	D. A. Magdaş, <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.) 19(10) , 1815-1820(2005)	27,08
3	A.V. Pop, C. Pelshenke, <u>O. Cozar</u> 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, <u>O. Cozar</u> Structural phase diagram for thermal controlled distorsion by Gd ions in the (N _{x-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. Pârnaş, T. Jurcă, M. Vasilescu, S. Simion, <u>O. Cozar</u> , L. David Experimental and DFT Study of Pyrazinamide Chem. Phys. 316 , 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 744-747 , 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 14 , 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 14 , 241-247(2005)	34,65
9	M. Tomoaia-Cotişel, 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. 50(6) , 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 14 , 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 14(5) , 405-410(2005)	27,72
12	<u>O. Cozar</u> , 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, <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 8 , 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 8 , 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 8 , 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 352 , 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 ₄ compound Journal of Optoelectronics and Advanced Materials 8 , 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 8 , 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 8 , 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 41 , 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. 9(6) , 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 ₃ and Fe ₂ O ₃ in lead-phosphate glasses J. Opt. Adv. Mater. 9(4) , 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. 9(4) , 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. 9(4) , 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. 9(3) , 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. 9(3) , 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. 9(3) , 599 – 604(2007)	49,62
28	N. Vedeanu, <u>O. Cozar</u> , I. Ardelean IR and EPR investigation of V ₂ O ₅ – P ₂ O ₅ – CaF ₂ glass system J. Opt. Adv. Mater. 9(3) , 698-701(2007)	82,70
29	A. Măgdaş, <u>O. Cozar</u> , I. Ardelean, L. David Infrared spectra of WO ₃ – PbO – P ₂ O ₅ glasses J. Opt. Adv. Mater. 9(3) , 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. 9(3) , 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. 9(3) , 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. 9(3) , 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 18 , 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. 9(9) , 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 9 , 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 354 , 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 39(3) , 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 10 , 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 10 , 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 10 , 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 2 , 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 2 , 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, 48 , 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, 48 , 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, 48 , 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, 48 , 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, 10(11) , 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, 10 , 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, 102 , 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, 102 , 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, 48 , 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, 10 (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, 919 , 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 β -cyclodextrin Spectroscopy, 23 , 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, 182 , 1-5(2009)012027	100,00
TOTAL		3930,40

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. McLanghlin, 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 th 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
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, <u>O. Cozar</u> , 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, <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® design using Vector Fields™ 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.			
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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.			
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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			

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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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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.			
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	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.			
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	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.			
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	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
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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
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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.			
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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	1
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total		140		14

TOTAL

140,00

2. Alte citari ale lucrarilor listate mai sus

TOTAL

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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 ²⁺ and Mn ²⁺ ions in x(CuO.MnO) (1-x)[2B ₂ O ₃ .K ₂ O] glasses Solide State Commun 44, 809-813(1982)	20	2,123	2
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1.2	Timar, V., Ardelean, I. Structural investigation of MnO-B ₂ O ₃ -PbO-Ag ₂ O glass system by EPR spectroscopy (2008) Journal of Optoelectronics and Advanced Materials, 10 (12), pp. 3212-3216.			
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2.1	Lakshminarayana, G., Buddhudu, S. Spectral analysis of Cu ²⁺ : B ₂ O ₃ -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 ₂ O ₃ .Li ₂ O] glasses Solide State Commun 50, 87-90(1984)	20	2,123	2
3.1	Lucacel, R.C., Ardelean, I. The B ₂ O ₃ /SrO ratio influence on the structural and magnetic properties of the CuO-B ₂ O ₃ -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	O.Cozar, I.Ardelean The local symmetry of Cu ²⁺ ions in Phosphate glasses J.Non-Crystallins Solids 92, 278-281(1987)	30	2,176	3
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4.3	Ardelean, I., Ciceo Lucacel, R. Local structure, valence states and magnetic interactions of copper ions in a 2B ₂ O ₃ .TeO ₂ glass matrix (2005) Physics and Chemistry of Glasses, 46 (5), pp. 491-493.			
5	O.Cozar, I.Ardelean, S.Simon, L.David ESR Studies of Mo ⁵⁺ ions in potassium-borate and soda-Phosphate glasses Solide State Commun. 85, 461-465(1993)	20	1,764	2
5.1	Radha, K.C., Anavekar, R.V., Rao, J.L., Chakradhar, R.P.S. EPR and optical studies of Mo ⁵⁺ ions in lithium molybdo-borate 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 Cr ³⁺ ions in alkaline earth alumino borate glasses (2006) Journal of Materials Science, 41 (7), pp. 2045-2053.			
6.4	Naga Raju, G., Veeraiyah, N., Nagarjuna, G., Satyanarayana, P.V.V. The structural role of chromium ions on the improvement of insulating character of ZnO-ZnF ₂ -B ₂ O ₃ 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 TeO ₂ based glasses (2005) Journal of Optoelectronics and Advanced Materials, 7 (2), pp. 745-752.			
7	I.Ardelean, Gh.Ilonca, V.Simon, O.Cozar, S.Filip, Ioncu V. Magnetic properties of xMnO(1-x)[Bi ₂ O ₃ ·PbO] Glasses Solid State Commun. 98, 651-653(1996)	60	1,446	6
7.1	Timar, V., Ardelean, I. Structural investigation of MnO-B ₂ O ₃ -PbO-Ag ₂ O glass system by EPR spectroscopy (2008) Journal of Optoelectronics and Advanced Materials, 10 (12), pp. 3212-3216.			
7.2	Simon, S., Eniu, D. Spectroscopic characterisation of local structure in Y ₂ O ₃ -B ₂ O ₃ -Bi ₂ O ₃ glasses doped with gadolinium (2007) Journal of Materials Science, 42 (15), pp. 5949-5953.			
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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 Cu/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	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.			
10.2	Haiduc, I., Mezei, G., Micu-Semeniuc, R., Edelman, F.T., Fischer, A. Differing coordination modes of (O-alkyl)-p-ethoxyphenyldithiophosponato ligands in copper(I), silver(I) and gold(I) triphenylphosphine complexes (2006) Zeitschrift für 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 bisdithiophosponates (2005) Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya, 31 (5), pp. 316-321.			
11	V.Chis, M.Brustolon, C.Morari, O.Cozar, L.David Experimental and theoretical structural parameters of the glycine CH ₂ NH ₂ radical J.Molecular Structure 482(1), 283-286(1999)	40	0,837	4
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12	S.Cinta, T.Iliescu, S.Astilean, L.David, O.Cozar, W.Kiefer 1,4-Benzodiazepine drugs adsorption on the Ag colloidal surface J.Molecular Structure 482(1), 685-688(1999)	30	0,837	3

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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	9
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13.9	Zhu, J., Wang, Y., Huang, L. Simulation of the medium dielectric constant dependent optical properties for gold nanosphere (2005) Materials Chemistry and Physics, 93 (2-3), pp. 383-387.			
14	I.Ardelean, O. Cozar, Gh. Ilonca, V. Simon, V. Mih, C. Craciun, S. Simon EPR and magnetic susceptibility studies on V ₂ O ₅ -P ₂ O ₅ -PbO glasses J. Mater. Science: Mater. In Electronics 11, 401-404(2000)	10	0,638	1
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 xNa ₂ O-(30 - X)K ₂ O-60B ₂ O ₃ glasses - An EPR and optical study (2005) Materials Research Bulletin, 40 (6), pp. 1028-1043.			
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
15.1	Som, T., Karmakar, B. Green and red fluorescence upconversion in neodymium-doped low phonon antimony glasses (2009) Journal of Alloys and Compounds, 476 (1-2), pp. 383-389.			

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15.3	Cai, Q., Lu, B., Zhang, J., Shan, Y. Synthesis, structure and properties of $(\text{H}_2\text{NCH}_2\text{CH}_2\text{NH}_2)_3\{(\text{VO})_6[\text{B}_{10}\text{O}_{16}(\text{OH})_6]_2\} \cdot 11\text{H}_2\text{O}$ (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 $\text{xNa}_2\text{O}-(30-\text{x})\text{K}_2\text{O}-60\text{B}_2\text{O}_3$ glasses - An EPR and optical study (2005) Materials Research Bulletin, 40 (6), pp. 1028-1043.			
15.8	Huang, Y., Feng, Q., Yang, Y., Seo, H.J. A study of luminescence properties in the boron-doped lead tungstate (2005) Physics Letters, Section A: General, Atomic and Solid State Physics, 336 (6), pp. 490-497.			
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	4
16.1	Prasad, R.L., Kushwaha, A., Gautam, B.P.S. Mixed ligand complexes of β -diketonates: Synthesis, characterization, and FAB mass spectral analysis (2009) Journal of Coordination Chemistry, 62 (18), pp. 2983-2994.			
16.2	Uçar, I., Bulut, I., Bulut, A., Karadağ, A. Polymeric and monomeric dipicolinate complexes with 4-hydroxymethyl pyridine: Spectral, structural, thermal and electrochemical characterization (2009) Structural Chemistry, 20 (5), pp. 825-838.			
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-hidroxiacetaldeído] (2006) Quimica Nova, 29 (6), pp. 1187-1192.			
16.4	Yuan, L.-H., Wu, Q.-J., Liu, S.-X. (Morpholine- β -N)(salicylaldehyde 4-nitrobenzoyl-hydrazone)- β -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., Veeraiyah, 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.			

17.5	Yasoda, B., Sreekanth Chakradhar, R.P., Rao, J.L., Gopal, N.O. EPR and optical absorption studies of VO ₂ ⁺ 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 ²⁺ : B ₂ O ₃ -(TeO ₂ /CdO/ZnO)-Li ₂ O-AlF ₃ 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 ₂ O (2006) Solid State Ionics, 177 (35-36), pp. 3147-3150.			
17.8	Prakash, P.G., Rao, J.L. VO ₂ ⁺ 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 ₂ O based AL ₂ O ₃ -SiO ₂ 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 ⁴⁺ ions in 2B ₂ O ₃ -SrO glass matrix Inter. Journal of Modern Physica 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 ₂ O-(30 - X)K ₂ O-60B ₂ O ₃ glasses - An EPR and optical study (2005) Materials Research Bulletin, 40 (6), pp. 1028-1043.			
total		650		65

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		
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 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
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

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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