

Universitatea “Babeş-Bolyai”
Competiția Excelenței 2010
Dosar individual

Nume, prenume, grad didactic	DAVID LEONTIN, PROFESOR DR.
Facultatea, catedra	Fizică, Fizică Biomedicală
Domeniul științific	Fizică
Adresa paginii web personale	
Adresa e-mail	leontin.david@phys.ubbcluj.ro

Criteriul I-Output

Punctaj total 1635.38 (0.6x1635.38=981.23)

- | | | |
|---|-------------|--------------|
| 1. Articole științifice publicate în reviste indexate ISI (cu menționare factorului de impact în cazul celor cotate): | 28 articole | 1603.566 pct |
| 3. Articole științifice publicate în reviste indexate în BDI (din lista CNCSIS) și în reviste românești recunoscute de CNCSIS tip B și B ⁺ : | 4 articole | 3.883 pct. |
| 6. Cărți științifice publicate în edituri naționale acreditate | 1 carte | 32 puncte |

Criteriul II-Prestigiu profesional

Punctaj total: 1937.13 (0.3x1937.13=581.14)

- | | | |
|---|-----------------------|------------|
| 1. Citări ale articolelor ISI listate la Criteriul I | 33 citari | 330 pct |
| 3. Citări în perioada 05-09 ale articolelor anterioare anului 2005 | 103 citari | 1030 pct |
| 5. Studenți naționali atrași | | 290 pct |
| Îndrumare lucrări de licență (număr lucrări susținute) | 40 lucrari licenta | 120 pct |
| Îndrumare lucrări de disertație (număr lucrări susținute) | 18 lucrări dizertatie | 72 pct |
| Îndrumare doctoranzi | 13 doctoranzi | 78 pct |
| Teze de doctorat susținute | 2 doctoranzi | 20 pct |
| 10. Participări la programe/granturi finanțate din sursă națională (se menționează și valoarea) | | |
| membru în 6 contracte naționale | | 227.13 pct |
| 16. Membru în comitete de organizare sau științifice ale unor conferințe internaționale | | |
| membru în 3 comitete de organizare | | 60 pct |

III. Realizare remarcabilă

Investigații spectroscopice și magnetice ale complexilor metalici cu aminoacizi

Ionii metalici îndeplinesc în organismele vii funcții importante sau au asupra acestora diferite acțiuni. Participarea ionilor metalici la produsele biologice constă în contribuția lor la formarea și ruperea legăturilor chimice, la transferul de sarcină și de oxigen, la fixarea azotului în fotosinteză, la menținerea balanței osmotice în sistemele multifazice și la reacții enzimatică. Interesul pentru complexii care conțin aminoacizi este datorat potențialului antioxidant și a importanței lor în procesele de creștere.

Au fost sintetizați complecși metalici (Cu, Zn, Fe, Cr, Ni, Co, Mn) având ca ligand aminoacizi (fenilalanină, leucină, metionină, treonină, lizină, glicină) care au fost investigați prin metode fizico-chimice (analiză chimică elementală, absorbția atomică de masă), termice (analiză termo-gavimetrică, analiză chimică diferențială), spectroscopice (spectroscopie FT-IR, UV-VIS, RES, RMN) și magnetice (măsurători de susceptibilitate magnetică) având drept scop determinarea structurii și activității biologice a acestora.

Rezultatele au fost publicate în această perioadă în 8 articole cotate ISI care au fost citate în literatura de specialitate de 15 ori, au fost incluse în două teze de doctorat, trei lucrări de licență și patru lucrări de disertație.

Total punctaj criteriul I și II =981.23+581.14=1562.37

Data: 16.03.2010

Certific validarea datelor prezentate

Sef de catedră,
Prof. dr. Leontin David

Semnătura,

Universitatea “Babeş-Bolyai”
Competiția Excelenței 2010
Dosar individual - anexă

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Criteriul I-Output

Punctaj total 1635.38 (0.6x1635.38=981.23)

1. Articole științifice publicate în reviste indexate ISI

Articole ISI 2005-2009

Total: 1603.566

1. Chis V., Pirnau A., Jurca T., Vasilescu M., Simon S., Cozar O., **David L.**
Experimental and DFT study of pyrazinamide
 Chemical Physics 2005, 316, 153-163
Factor ISI: 2.438 **(30/7)x2.438x10=106.414**

2. Batiu C., Jelic C., Leopold N., Cozar O., **David L.***Spectroscopic investigations of new Cu(II), Co(II), Ni(II) complexes with ?-L-glutamyl amide as ligand*
 Journal of Molecular Structure, 2005, 744-747, 325-330
Factor ISI: 1.20 **(30/5)x1.20x10=72**

3. Craciun C., Rusu D., Pop-Fanea L., Hossu M., Rusu M., **David L.**, *Spectroscopic investigation of several uranium(IV) polyoxometalate complexes*
 Journal of Radioanalytical and Nuclear Chemistry, 2005, 264 (3), 589-594
Factor ISI: 0.460 **(30/6)x0.460x10=23**

4. Batiu C., Panea I., Ghizdavu L., **David L.**, Pellascio S.G., *Divalent transition metal complexes: 4-(4-ethoxy-phenylhydrazono)-1-phenyl- 3-methyl-1H-pyrazolin-5(4H)-one*
 Journal of Thermal Analysis and Calorimetry, 2005, 79 (1), 129-134
Factor ISI: 1.425 **(30/5)x1.425x10=85.5**

5. Magdas D.A., Cozar O., Ardelean I., **David L.** *Spectroscopic studies of some phosphate glasses with molybdenum ions*

- International Journal of Modern Physics B, 2005, 19(10), 1815-1820
Factor ISI: 0,361 **(30/4)x0.361x10=47.325**
6. Rusu D., Craciun C., Rusu M., **David L.**, *Synthesis and physico-chemical study of two sandwich-type heteropolyoxometalates with trinuclear vanadium clusters (V3IV and V2IVVv)*
Revue Roumaine de Chimie, 2005, 20 (2), 87-96
Factor ISI: 0.226 **(30/4)x0.226x10=16.95**
7. O. Cozar, N. Leopold, C. Jelic, V. Chis, **L. David**, A. Mocanu, M. Tomoaia Cotisel
IR, Raman and surface-enhanced Raman study of desferrioxamine B and its Fe(III) complex, ferrioxamine B
Journal of Molecular Structure, 2006, 788, 1-6
Factor ISI: 1.495 **(30/7)x1.495x10=64.071**
8. O. Cozar, V. Chiş, **L. David**, M. Baias
Experimental and density functional theory investigation of some biomedical compounds,
Journal of Optoelectronics and Advanced Materials, 2006, 8, 164 -171
Factor ISI: 1.106 **(30/4)x1.106x10=82.95**
9. **L. David** , D. Rusu, M. Rusu, A. Pătrut , C. Crăciun, *Complexes of the trilacunary Keggin arseno(V)polyoxotungstate with iron (III), cobalt (II) and nickel (II)*, REVUE ROUMAINE DE CHIMIE, 52, 8-9, 2007, p.817 – 821
Factor ISI: 0.262 **(30/5)x0.262x10=65.58**
10. **L. David** , M. Rusu , C. Pasca, M. Hossu , A. Marcu , N. Joo , D. Rusu ,
Synthesis and physical-chemical study of two sandwich-type heteropolyoxometalates with dinuclear vanadium clusters, ACTA CHIMICA SLOVENICA, 54, 4, 2007, p.749 – 754 .
Factor ISI: 1.093 **(30/7)x1.093x10=46.84**
11. M. Rusu, **L. David**, M. Hossu, N. Joo, A. Rosca, D. Rusu, *New heteropolymetalates with Keggin and Dawson structure and with mixed addend atom*, JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS, 9 (3), 2007, p.572 – 576
Factor ISI: 0.827 **(30/6)x0.827x10=41.35**
12. M. Rusu, **L. David**, M Hossu , A. Marcu, O. Baban , D. Rusu, *Spectroscopic and magnetic studies of new vanadyl tungstophosphate and tungstoarsenate with an open Wells-Dawson structures*, JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS, 9 (3), 2007, p.577 – 582
Factor ISI: 0.827 **(30/6)x0.827x10=41.35**
13. M. Rusu, O. Cozar, **L. David**, M. Hossu, A. Ilie, D. Rusu, *Spectroscopic investigation of trinuclear metallic cluster encapsulated in silico-9-wolframic heteropolyanion*, JOURNAL OF OPTOELECTRONICS AND ADVANCED

- MATERIALS, 9 (3), 2007, p.711 – 715 .
Factor ISI: 0.827 **(30/6)x0.827x10=41.35**
14. M. Rusu, O. Cozar, **L. David**, A. Marcu, D. Rusu, A. Stanila , *Spectroscopic studies of copper (II) complexes with some amino acids* , JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS, 9 (3), 2007, p.741 – 746
Factor ISI: 0.827 **(30/6)x0.827x10=41.35**
15. M. Rusu, D. Rusu, O. Cozar, **L. David**, M. Hossu, *Spectroscopic Investigation of Tetranuclear Clusters Encapsulated in Some POLyoxometalates Complexes*, JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS, 9(4), 2007, p.1000 – 1004
Factor ISI: 0.827 **(30/5)x0.827x10=49.62**
16. M. Rusu, **L. David**, A. Marcu, D. Rusu, A. Stănilă, *Spectroscopic Studies of Some Copper(II) Complexes with Amino Acids*, JOURNAL OF MOLECULAR STRUCTURE, 834-836, 2007, p.364 – 368
Factor ISI: 1.486 **(30/5)x1.486x10=89.16**
17. O. Cozar, A. Magdas, I. Ardelean , **L. David**, *Infrared spectra of WO₃ – PbO – P₂O₅ glasses*, JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS, 9(3), 2007, p.729 – 732
Factor ISI: 0.827 **(30/4)x0.827x10=62.025**
18. M. Rusu, D. Rusu, A. Patrut , **L. David**, *Physico-chemical characterization of the sandwich-type complexe of the trilacunary arseno(V)polyoxotungstate with manganese (II)*, REVISTA DE CHIMIE, 58(5), 2007, p.484 – 488
Factor ISI: 0.287 **(30/4)x0.287x10=62.025**
19. **L. David**, C. Tănăselia, T. Frentiu, M. Ursu, E. Cordos, M. Chintoanu, D. Gomoiescu, M. Vlad, M. Paul, *Fast method for determination of Cd, Cu, Pb, Se, and Zn in whole blood by DRC-ICP-MS using the simple dilution procedure* , JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS, 2, 2, 2008, p.99 – 107
Factor ISI: 0.827 **(30/9)x0.827x10= 27.566**
20. **L. David**, A. Marcu, A. Stănila, O. Cozar, *Structural investigations of some metallic complexes with threonine as ligand*, JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS, 10, 4, 2008, p. 830 – 833
Factor ISI: 0.827 **(30/4)x0.827x10=62.025**
21. **L. David** , G. Turdean , A. Patrut, C. Popescu, *Electrochemical behaviour of a new triiron-substituted polyoxomolybdate*, JOURNAL OF APPLIED ELECTROCHEMISTRY, 38, 6, 2008, p.751 – 758.
Factor ISI:1.2 **(30/4)x1.2x10=90**

22. **L. David**, A. Marcu, A. Stanila, M. Rusu, D. Chicea , *Structural investigations of some transitional metals with histidine as ligand*, JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS, 10, 9, 2008, p.2351 – 2354 .
Factor ISI: 0.827 **(30/5)x0.827x10=49.62**
23. **L. David**, M. Hossu, D. Rusu, M. Rusu, *Synthesis and physical-chemical study of sandwich-type heteropolyoxometalate with dinuclear vanadium clusters*, JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS, 10, 9, 2008, p. 2346 – 2350
Factor ISI:0.827 **(30/4)x0.827x10=62.025**
24. **L. David**, M. Hossu, D. Rusu, M. Rusu, O. Cozar , *Spectroscopic study of dinuclear vanadium cluster encapsulated in sandwich-type heteropolyoxometalate*, JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS, 10, 3, 2008, p.697 – 700
Factor ISI: 0.827 **(30/4)x0.827x10=62.025**
25. C. Tănăseilă, M. Miclean, C. Roman, E. Cordoș, **L. David** *Determination of lead isotopic ratio in organic and soil materials using a quadrupole mass spectrometry method with fast inductively coupled plasma*, JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS,2, 5, 2008 p. 299 - 302
Factor ISI: 0.827 **(30/4)x0.827x10=62.025**
26. O. Cozar, M. Bako , L. Dărăban, **L. David**, I. Ardelean , *P2O5-CaO-Li2O glass system- a possible ESR dosimeter*, JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS, 2, 2008, p.249 – 252
Factor ISI: 0.827 **(30/5)x0.827x10=49.62**
27. O. Baban, I. Hauer, D. Rusu, M. Rusu, N. L. Mogonea, **L. David**, *Structural investigations of sandwich-type heteropolyoxometalate with dinuclear vanadium cluster*, Nuclear Instruments & Methods in Physics Research, Section B, 267, 2009, p 422-425
Factor ISI: 0.997 **(30/6)x0.997x10=49.85**
28. A. Stănilă, Cs. Nagy, A. Marcu, D. Cozma, D. Rusu, **L. David**, *Spectroscopic investigations of new metallic complexes with leucine as ligand*, Nuclear Instruments & Methods in Physics Research, Section B, 267, 2009, 419-421
Factor ISI: 0.999 **(30/6)x0.999x10=49.95**

3. Articole științifice publicate în reviste indexate în BDI (din lista CNCSIS) și în reviste românești recunoscute de CNCSIS tip B și B⁺

Total 3.883

1. **David Leontin**, Mogonea Lavinia, Hauer Ioan, Cozar Ionut-Bogdan, Marcu Anca Oana, *Spectroscopic investigation of some UO₂⁺-Polyoxometalate complexes*, STUDIA UNIVERSITATIS BABES BOLYAI. PHYSICA, Categ CNCSIS B+, 2, 2008, P.23 – 31 **5/5=1**

2. Hossu Mihaela Liliana, Rusu Dan-Razvan, Rusu Mariana, Marcu Anca Oana, **David Leontin**, *19. Magnetic Investigation of Tetranuclear Mn(II) Cluster Encapsulated in Sandwich-Type Heteropolyanion*, STUDIA UNIVERSITATIS BABES BOLYAI. PHYSICA, Categ CNCSIS B+, 2, 2006, P.35 – 44

5/5=1

3. Sacalis Carmen-Lucia, Panea Ioan, Pelea Mirela Maria, Marcu Anca Oana, **David Leontin**, *Synthesis and spectroscopic investigation of metal complexes with an azo-dye as ligand*, STUDIA UNIVERSITATIS BABES-BOLYAI. CHEMIA, Categ CNCSIS B+, 52, 2007, P.77 – 89 **5/5=1**

4. Bebu Andreea - Mihaela, Cozar Ionuț - Bogdan, Mogonea Lavinia, Cozma Dorin, Nagy Csilla, **David Leontin**, *Spectroscopic Studies of some Metallic Complexes with Phenylalanine as Ligand*, STUDIA UNIVERSITATIS BABES BOLYAI. PHYSICA, Categ CNCSIS B+, 2, 2009, P.23 – 33

5/6=0.833

6. Cărți științifice publicate în edituri naționale acreditate

Total 32 puncte

1. V. Chiș, O. Cozar, L. David, Simetrie moleculară, EDITURA NAPOCA STAR, CLUJ-NAPOCA, 2007, P. 480

480x20/100/3=32

Criteriul II-Prestigiu profesional

Punctaj total: 1937,13 (0.3x1937.13=581.14)

1. Citări ale articolelor ISI listate la Criteriul I

Total citări: 33

Punctaj total 330

1. Turdean G.L., Patrut A., David L., Popescu I.C. Electrochemical behaviour of a new triiron-substituted polyoxomolybdate, 2008, Journal of Applied Electrochemistry, (6) 751-758

1.1. Hamidi, H., Shams, E., Yadollahi, B., Esfahani, F.K. Fabrication of carbon paste electrode containing [PFeW₁₁O₃₉]⁴⁻ polyoxoanion supported on modified amorphous silica gel and its electrocatalytic activity for H₂O₂ reduction (2009) *Electrochimica Acta*, 54 (12), pp. 3495-3500.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-61849114662&partnerID=40&md5=6a0b2394f7e7641ee54303c74a3bf44b)

[61849114662&partnerID=40&md5=6a0b2394f7e7641ee54303c74a3bf44b](http://www.scopus.com/inward/record.url?eid=2-s2.0-61849114662&partnerID=40&md5=6a0b2394f7e7641ee54303c74a3bf44b)

Document Type: Article

Source: Scopus

2. 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, (SPEC. ISS.) 364-368

2.1. Wu, L., Yan, M., Wang, J.-G., Xia, Z.-L., Qin, X.-R., Yi, D.-L. Synthesis and properties of copper complex with propyl gallate (2009) *Wuhan Ligong Daxue Xuebao/Journal of Wuhan University of Technology*, 31 (23), pp. 35-38.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-75849135152&partnerID=40&md5=119757bd9e0f39767f12751211c8f89a)

[75849135152&partnerID=40&md5=119757bd9e0f39767f12751211c8f89a](http://www.scopus.com/inward/record.url?eid=2-s2.0-75849135152&partnerID=40&md5=119757bd9e0f39767f12751211c8f89a)

Document Type: Article

Source: Scopus

2.2 Pacheco, P.H., Gil, R.A., Smichowski, P., Polla, G., Martinez, L.D.

l-Tyrosine immobilized on multiwalled carbon nanotubes: A new substrate for thallium separation and speciation using stabilized temperature platform furnace-electrothermal atomic absorption spectrometry (2009) *Analytica Chimica Acta*, 656 (1-2), pp. 36-41.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-70449985266&partnerID=40&md5=90860a54becbd08df0b58a4944d0feea)

[70449985266&partnerID=40&md5=90860a54becbd08df0b58a4944d0feea](http://www.scopus.com/inward/record.url?eid=2-s2.0-70449985266&partnerID=40&md5=90860a54becbd08df0b58a4944d0feea)

DOCUMENT TYPE: Article

SOURCE: Scopus

2.3. Kurzak, B., Kamecka, A., Bogusz, K., Jezierska, J., Woźna, A.

Stabilities and coordination modes of methionine in copper(II) mixed-ligand complexes with ethylenediamine, diethylenetriamine or N, N', N'', N'' pentamethyldiethylenetriamine in aqueous solution (2009) *Polyhedron*, 28 (12), pp. 2403-2410.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-67650125561&partnerID=40&md5=fa04eea274a8053545a4b3b93982885c)

[67650125561&partnerID=40&md5=fa04eea274a8053545a4b3b93982885c](http://www.scopus.com/inward/record.url?eid=2-s2.0-67650125561&partnerID=40&md5=fa04eea274a8053545a4b3b93982885c)

Document Type: Article

Source: Scopus

2.4. Wojciechowska, A., Daszkiewicz, M., Bieńko, 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.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-65549137468&partnerID=40&md5=e8e6c8c6e6e4f769445b05ed5990735c)

[65549137468&partnerID=40&md5=e8e6c8c6e6e4f769445b05ed5990735c](http://www.scopus.com/inward/record.url?eid=2-s2.0-65549137468&partnerID=40&md5=e8e6c8c6e6e4f769445b05ed5990735c)

DOCUMENT TYPE: Article

SOURCE: Scopus

2.5 Jastrzab, R., Lomozik, L. Coordination mode in the binary systems of copper(II)/O-phospho-L-serine (2009) *Journal of Coordination Chemistry*, 62 (5), pp. 710-720. Cited 1 time.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-61649087905&partnerID=40&md5=d8cf41b82b9d993552a31b6488708b54)

[61649087905&partnerID=40&md5=d8cf41b82b9d993552a31b6488708b54](http://www.scopus.com/inward/record.url?eid=2-s2.0-61649087905&partnerID=40&md5=d8cf41b82b9d993552a31b6488708b54)

DOCUMENT TYPE: Article

SOURCE: Scopus

2.6 Pacheco, P.H., Olsina, R., Polla, G., Martinez, L.D., Smichowski, P.

Adsorption behaviour of cadmium on L-methionine immobilized on controlled pore glass (2009) *Microchemical Journal*, 91 (2), pp. 159-164. Cited 1 time.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-59849092770&partnerID=40&md5=ec2ac350d3ab534bb7a10b7a03da45ea)

[59849092770&partnerID=40&md5=ec2ac350d3ab534bb7a10b7a03da45ea](http://www.scopus.com/inward/record.url?eid=2-s2.0-59849092770&partnerID=40&md5=ec2ac350d3ab534bb7a10b7a03da45ea)

DOCUMENT TYPE: Article

SOURCE: Scopus

2.7 Sahoo, S.C., Ray, M.

Ferrocene substitution in amino acids strengthens the axial binding in Cu(ii) complexes and separates the hydrophobic and hydrophilic region in the crystals

(2007) *Dalton Transactions*, (44), pp. 5148-5155. Cited 6 times.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-35948998100&partnerID=40&md5=689971acdb72c1f1eab4fe65229986f1)

[35948998100&partnerID=40&md5=689971acdb72c1f1eab4fe65229986f1](http://www.scopus.com/inward/record.url?eid=2-s2.0-35948998100&partnerID=40&md5=689971acdb72c1f1eab4fe65229986f1)

Document Type: Article

Source: Scopus

3. Cozar O., Leopold N., Jelic C., Chis V., David L., Mocanu A., Tomoiaia-Cotisel M. IR, Raman and surface-enhanced Raman study of desferrioxamine B and its Fe(III) complex, ferrioxamine B 2006, Journal of Molecular Structure, (1-3) 1-6

3.1 Aydin, O., Altaş, 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.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-70450206925&partnerID=40&md5=7ef28a497e950c8a9a7505ebf483eb07)

[70450206925&partnerID=40&md5=7ef28a497e950c8a9a7505ebf483eb07](http://www.scopus.com/inward/record.url?eid=2-s2.0-70450206925&partnerID=40&md5=7ef28a497e950c8a9a7505ebf483eb07)

Document Type: Article

Source: Scopus

3.2 Çulha, M., Adigüzel, A., Yazici, M.M., Kahraman, M., Şahin, F., Güllüce, M.

Characterization of thermophilic bacteria using surface-enhanced Raman scattering

(2008) *Applied Spectroscopy*, 62 (11), pp. 1226-1232. Cited 2 times.

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DOCUMENT TYPE: Article

SOURCE: Scopus

23. Cozar O., Ardelean I., Simon S., David L.

**ESR studies of Mo⁵⁺ ions in potassium-borate and soda-phosphate glasses
1993, Solid State Communications, (5) 461-465**

23.1 Radha, K.C., Anavekar, R.V., Rao, J.L., Chakradhar, R.P.S.

EPR and optical studies of Mo⁵⁺ ions in lithium molybdo-borate glasses

(2008) Applied Magnetic Resonance, 35 (1), pp. 1-13.

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DOCUMENT TYPE: Article

SOURCE: Scopus

23.2 Cozar, O., Magdas, D.A., Ardelean, I.

EPR study of molybdenum-lead-phosphate glasses

(2008) Journal of Non-Crystalline Solids, 354 (10-11), pp. 1032-1035. Cited 4 times.

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DOCUMENT TYPE: Article

SOURCE: Scopus

23.3 Cozar, O., Magdas, D.A., Ardelean, I.

Spectroscopic investigation of some lead - Phosphate glasses with tungsten and molybdenum ions

(2007) Journal of Optoelectronics and Advanced Materials, 9 (6), pp. 1730-1735.

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[38549162808&partnerID=40&md5=a4920c5b067cb6fc1d062490ff7813b7](http://www.scopus.com/inward/record.url?eid=2-s2.0-38549162808&partnerID=40&md5=a4920c5b067cb6fc1d062490ff7813b7)

DOCUMENT TYPE: Conference Paper

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23.4 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. Cited 5 times.

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DOCUMENT TYPE: Article

SOURCE: Scopus

5. Studenți naționali atrași: (activități de coordonare științifică și didactică)

Total : 290

- îndrumare lucrări de licență (număr lucrări susținute)

- total lucrări licență : 40, **punctaj : 3x40/1= 120**

- îndrumare lucrări disertație (număr lucrări susținute)

- total lucrări disertație 18, **punctaj: 4x18/1=72**

- doctoranzi

- lista nominală a doctoranzilor înmatriculați, **punctaj: 6x13=78**

1. Grad Anuța
2. Cozma Iustin Dorin
3. Hauer Ioan
4. Mogonea Lavinia
5. Nagy Csilla
6. Gocan Iuliu
7. Tănăsăilă Claudiu
8. Schmutzer Gabriela
9. Bebu Andreea
10. Cozar Ionuț Bogdan
11. Berindean Cătălin
12. Mare Daniela
13. Hubner Maria

- lista nominală a tezelor susținute, **punctaj: 10x2=20**

1. Hossu Mihaela
2. Marcu Oana Anca

10. Participări la programe/granturi de cercetare finanțate din sursă națională

Total: 227.13

1. Proiect PNCDI II 72-186/2008, Materiale magnetice nanocompozite întărite prin schimb-NANOMAT, 2008 – 2011, 580.000 RON; **Punctaj: 580.000/10.000=58**

2. Proiect PNCDI II 22-098/2008, Reducerea emisiilor de gaze cu efect de seră folosind catalizatori metalici suportati. Tehnologie de obtinere, preparare și caracterizare fizico-chimică – REGES, Responsabil partener Institutul National de Cercetare Dezvoltare pentru Tehnologii Izotopice și Moleculare Cluj-Napoca, 2008 – 2011, 200.000 RON.

Punctaj: 200.000/10.000=20

3. Proiect PNCDI II 32-119/2008, Tehnologia de obtinere, caracterizarea structurală și electronică a catalizatorilor metalici suportati cu aplicații directe în protecția mediului – TOCSEM Responsabil partener Institutul National de Cercetare Dezvoltare pentru Tehnologii Izotopice și Moleculare Cluj-Napoca, 2008 – 2011, 200.000 RON.

Punctaj: 200000/10000=20

4. Contract nr. 27687/14.03.2005 Cod CNCSIS: 168, Tema 9, Studii de structură și dinamică moleculară asupra unor combinații complexe de interes biomedical, 52.325 RON.

Punctaj: 52.325/10000=5.23

5. 1.CEEX-Viasan/ 166/2006 Cercetari privind diagnosticare și control utilizand biomarkeri (BioMarkDiag)

Punctaj:898163/10000=89.8163

6.CEEX-MENER/ 176/2006 Cercetari privind obtinerea unor combustibili și materii prime din surse regenerabile (COMBREG)

Punctaj: 100000/10000=10

7.CNCSIS/ 1311/2006 Studii privind controlul, autentificarea și monitorizarea unor nutrienți și contaminanți

Punctaj: 240945/10000=24.09

12. Membru în comitete de organizare sau științifice ale unor conferințe internaționale

Total 60

1. Advanced Spectroscopies on Biomedical and Nanostructured System – NANOSPEC- 1, Cluj-Napoca, 19-22 septembrie 2004;

2. Advanced Spectroscopies on Biomedical and Nanostructured System – NANOSPEC- 2, Cluj-Napoca, 3-6 septembrie 2006;

3. CEPAS (Conference on Elementary Processes in Atomic Systems), Cluj-Napoca, 18-20 iunie 2008.

Punctaj: 20x3=60

III. Realizare remarcabilă

Investigații spectroscopice și magnetice ale complexilor metalici cu aminoacizi

Ionii metalici îndeplinesc în organismele vii funcții importante sau au asupra acestora diferite acțiuni. Participarea ionilor metalici la produsele biologice constă în contribuția lor la formarea și ruperea legăturilor chimice, la transferul de sarcină și de oxigen, la fixarea azotului în fotosinteză, la menținerea balanței osmotice în sistemele multifazice și la reacții enzimatică. Interesul pentru complexii care conțin aminoacizi este datorat potențialului antioxidant și a importanței lor în procesele de creștere.

Au fost sintetizați complecși metalici (Cu, Zn, Fe, Cr, Ni, Co, Mn) având ca ligand aminoacizi (fenilalanină, leucină, metionină, treonină, lizină, glicină) care au fost investigați prin metode fizico-chimice (analiză chimică elementală, absorbția atomică de masă), termice (analiză termo-gravimetrică, analiză chimică diferențială), spectroscopice (spectroscopie FT-IR, UV-VIS, RES, RMN) și magnetice (măsurători de susceptibilitate magnetică) având drept scop determinarea structurii și activității biologice a acestora.

Rezultatele au fost publicate în această perioadă în 8 articole cotate ISI care au fost citate în literatura de specialitate de 15 ori, au fost incluse în două teze de doctorat, trei lucrări de licență și patru lucrări de disertație.

Total punctaj criteriul I și II =981.23+581.14=1562.37

Data: 16.03.2010

Certific validarea datelor prezentate

Semnătura,

Sef de catedră,
Prof. dr. Leontin David