

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

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

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**

4. Alte articole științifice/capitole publicate în reviste /volume cu referenți

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: 2816.96 (0.3x2816.96=845.08)

1. Citări ale articolelor ISI listate la Criteriul I

Total citări: 33

Punctaj total 511.93

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

Factor ISI:1.2

1x10x1.2=12

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

Factor ISI: 1.486

7x10x1.486=104.02

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'', 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 Factor ISI: 1.495 $7 \times 10 \times 1.495 = 104.65$

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.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-57049127033&partnerID=40&md5=a92a516bee8d647fd2b8b6ac9daefc0d)

[57049127033&partnerID=40&md5=a92a516bee8d647fd2b8b6ac9daefc0d](http://www.scopus.com/inward/record.url?eid=2-s2.0-57049127033&partnerID=40&md5=a92a516bee8d647fd2b8b6ac9daefc0d)

Document Type: Article

Source: Scopus

3.3 Roy, E.G., Jiang, C., Wells, M.L., Tripp, C.

Determining subnanomolar iron concentrations in oceanic seawater using a siderophore-modified film analyzed by infrared spectroscopy

(2008) Analytical Chemistry, 80 (12), pp. 4689-4695.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-45249123016&partnerID=40&md5=0fd8d02f23ab29b329ea6eea19054ac3>

Document Type: Article

Source: Scopus

3.4 Lu, N., Zhang, M., Li, H., Gao, Z.

Completely different effects of desferrioxamine on hemin/nitrite/H₂O₂-induced bovine serum albumin nitration and oxidation

(2008) Chemical Research in Toxicology, 21 (6), pp. 1229-1234. Cited 2 times.

<http://www.scopus.com/inward/record.url?eid=2-s2.0-47049099950&partnerID=40&md5=4b32984c9e362fcc50ac76359df96e0a>

Document Type: Article

Source: Scopus

3.5 Kim, Y., Cho, K., Lee, K., Choo, J., Gong, M.-s., Joo, S.-W.

Electric field-induced adsorption change of 1,3,5-benzenetricarboxylic acid on gold, silver, and copper electrode surfaces investigated by surface-enhanced Raman scattering

(2008) Journal of Molecular Structure, 878 (1-3), pp. 155-161.

<http://www.scopus.com/inward/record.url?eid=2-s2.0-41549125829&partnerID=40&md5=1016eccc2329fe0502c9b2ecb30d57a9>

Document Type: Article

Source: Scopus

3.6 Kahraman, M., Tokman, N., Çulha, M.

Silver nanoparticle thin films with nanocavities for surface-enhanced Raman scattering

(2008) ChemPhysChem, 9 (6), pp. 902-910. Cited 4 times.

<http://www.scopus.com/inward/record.url?eid=2-s2.0-42649142931&partnerID=40&md5=87db3cf8d1dccc14dcda538d73aee6d>

Document Type: Article

Source: Scopus

3.7 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. Cited 1 time.

<http://www.scopus.com/inward/record.url?eid=2-s2.0-36849062575&partnerID=40&md5=ef4a582c0795221732364b8f127a81e5>

Document Type: Article

Source: Scopus

4. Cozar O., Chis V., David L., Baias M.

Experimental and density functional theory investigation of some biomedical compounds

2006, Journal of Optoelectronics and Advanced Materials, (1) 164-171

Factor ISI:1.106

2x10x1.106=22.12

4.1 Liu, G., Ma, S., Song, X., Zhang, P., Li, H., Wang, W.

Spectroscopy of several drugs in the terahertz region

(2009) Proceedings of SPIE - The International Society for Optical Engineering, 7385, p. 738527.

<http://www.scopus.com/inward/record.url?eid=2-s2.0-70449646882&partnerID=40&md5=97ab09ab3ed4ca6eae3a5c6019409a6a>

Document Type: Conference Paper

Source: Scopus

Source: Scopus

4.2 Bezerra, E.M., Flores, M.Z.S., Caetano, E.W.S., Freire, V.N., Lemos, V., Cavada, B.S., De Lima Filho, J.L.

Quantum mechanical ab initio calculations of the Raman scattering from psoralens

(2006) Journal of Physics Condensed Matter, 18 (35), art. no. 017, pp. 8325-8336.

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Factor ISI:2.438

8x10x2.438=195.04

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Factor ISI: 1.20

2x10x1.20=24

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Document Type: Article

Source: Scopus

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Spectroscopic investigation of several uranium (IV) polyoxometalate complexes

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Factor ISI: 0.460

1x10x0.460=4.6

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Divalent transition metal complexes: 4-(4-ethoxy-phenylhydrazono)-1-phenyl- 3-methyl-1H-pyrazolin-5(4H)-one

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6x10x1.425=45.5

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Synthesis, spectral and thermal properties of some transition metal(II) complexes with a novel ligand derived from thiobarbituric acid

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SOURCE: Scopus

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Thermal decomposition kinetics of nickel(II) and cobalt(II) azo barbituric acid complexes

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DOCUMENT TYPE: Article

SOURCE: Scopus

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pyrazole: Part 23. Transition metal complexes with pyrazole-based ligands
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DOCUMENT TYPE: Article

SOURCE: Scopus

SOURCE: Scopus

8.5 Szécsényi, K.M., Leovac, V.M., Kovács, A., Pokol, G., Jaćimović, Ž.K.

Transitionmetal complexes with pyrazole-based ligands: Part 21. Thermal decomposition
of copper and cobalt halide complexes with 3,5-dimethyl-1- thiocarboxamidepyrazole
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Total: 1727,9

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Tetranuclear Cu(II) cluster encapsulated in one arsenic(V) heteropolyoxotungstate.

Spectroscopic and magnetic investigation

2004, Acta Chimica Slovenica, (4) 629-640

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1.1 Tomsa, A.-R., Koutsodimou, A., Falaras, P., Bernard, M.-C., Graban, V., Rusu, M. Synthesis and characterization of new rare-earth sandwich-type tungstoarsenates (2006) *Synthesis and Reactivity in Inorganic, Metal-Organic and Nano-Metal Chemistry*, 36 (4), pp. 335-344. Cited 1 time.

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SOURCE: Scopus

2. David L., Craciun C., Chis V., Tetean R.

EPR and HF-EPR study of a trinuclear MnII cluster encapsulated in one sandwich-type heteropolyanion

2002, Solid State Communications, (12) 675-678

Factor ISI: 1.428

3x10x1.428=42.84

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Trinuclear cobalt(II) sandwiched polyoxotungstobismuthate with antennal copper(II)-complex: A new method to combine hetero-transition-metallic ions

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DOCUMENT TYPE: Article

SOURCE: Scopus

2.2 Liu, H., Qin, C., Wei, Y.-G., Xu, L., Gao, G.-G., Li, F.-Y., Qu, X.-S.

Copper-complex-linked polytungsto-bismuthate (-antimonite) chain containing sandwich Cu(II) ions partially modified with imidazole ligand

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2.3 Liu, H., Xu, L., Gao, G., Li, F., Jiang, N.

Sandwich transitional metal complexes with tungstobismuthates and 1-methylimidazole ligands: Syntheses, structures and magnetic properties

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DOCUMENT TYPE: Article

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3. Rusu D., Craciun C., Barra A.-L., David L., Rusu M., Rosu C., Cozar O., Marcu G.

Spectroscopic and electron paramagnetic resonance behavior of trinuclear metallic

clusters

2001, *Journal of the Chemical Society, Dalton Transactions*, (19) 2879-2887

Factor ISI: 2.507

8x10x2.507=200.56

3.1 Xu, X., Zhang, L., Yi, Z., Qi, B., Luo, F.

Synthesis and crystal structure of a sandwich-type transition metal complex with tungstobismutate and triethanolamine

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SOURCE: Scopus

3.2 Liu, H., Liu, Y., Liu, H., Shi, C., Liu, F., Liu, H.

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A new sandwich polyoxometalate constructed from a Zn₆ 12+ hexagon cluster sandwiched by two B- α -[BiW 9O₃₃]⁹⁻

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DOCUMENT TYPE: Article

SOURCE: Scopus

3.4 Liu, H., Qin, C., Wei, Y.-G., Xu, L., Gao, G.-G., Li, F.-Y., Qu, X.-S.

Copper-complex-linked polytungsto-bismuthate (-antimonite) chain containing sandwich Cu(II) ions partially modified with imidazole ligand

(2008) *Inorganic Chemistry*, 47 (10), pp. 4166-4172. Cited 13 times.

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[44349093752&partnerID=40&md5=e4d33a48e7073bd70c08ee978dd3f421](http://www.scopus.com/inward/record.url?eid=2-s2.0-44349093752&partnerID=40&md5=e4d33a48e7073bd70c08ee978dd3f421)

DOCUMENT TYPE: Article

SOURCE: Scopus

3.5 Zhang, Z., Wang, E., Li, Y., Qi, Y., Tan, H.

Synthesis, characterization and crystal structure of a new dimeric tetra-Ni-substituted sandwich tungstogermanate

(2007) *Journal of Molecular Structure*, 843 (1-3), pp. 128-131. Cited 3 times.

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3.6 Wang, J., Pengtao, M., Shen, Y., Niu, J.

A novel polyoxotungstate $[\text{Ni}_4(\text{H}_2\text{O})_2(\alpha\text{-NiW}_9\text{O}_{34})_2]^{16-}$ based on an old structure with a new component

(2007) *Crystal Growth and Design*, 7 (4), pp. 603-605. Cited 14 times.

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DOCUMENT TYPE: Article

SOURCE: Scopus

3.7 Tomsa, A.-R., Koutsodimou, A., Falaras, P., Bernard, M.-C., Rusu, M.

New organotin derivatives of trilacunary Keggin polyanions

(2005) *Synthesis and Reactivity in Inorganic, Metal-Organic and Nano-Metal Chemistry*, 35 (8), pp. 651-659. Cited 1 time.

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DOCUMENT TYPE: Article

SOURCE: Scopus

3.8 Liu, X.-M., Wang, C.-R., Liu, B., Xue, G.-L., Hu, H.-M., Wang, J.-W., Fu, F.

Structure and magnetic properties of pyridine coordinated sandwich-type heteropolyanion $\{[\text{Na}(\text{H}_2\text{O})_2]_3[\text{Ni}(\text{C}_5\text{H}_5\text{N})_3(\text{AsW}_9\text{O}_{33})_2]_9-$

(2005) *Chinese Journal of Chemistry*, 23 (10), pp. 1412-1416. Cited 3 times.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-26044450919&partnerID=40&md5=9df2440dd1ea8dfe970557dba95ae4f3)

[26044450919&partnerID=40&md5=9df2440dd1ea8dfe970557dba95ae4f3](http://www.scopus.com/inward/record.url?eid=2-s2.0-26044450919&partnerID=40&md5=9df2440dd1ea8dfe970557dba95ae4f3)

DOCUMENT TYPE: Article

SOURCE: Scopus

4. Craciun C., David L.

Spectroscopic and magnetic investigation of one sandwich-type uranium(IV)-polyoxometalate with Ge(IV) as heteroatom

2001, *Journal of Alloys and Compounds*, 743-747

Factor ISI: 0.880<1

7x10=70

4.1 Li, S., Zhao, J., Ma, P., Du, J., Niu, J., Wang, J.

Rare sandwich-type polyoxomolybdates constructed from di-/tetra-nuclear transition-metal clusters and trivacant kegginn germanomolybdate fragments

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[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-70350576637&partnerID=40&md5=11ba7f6fb9da241cf1dd925d00c1067f)

[70350576637&partnerID=40&md5=11ba7f6fb9da241cf1dd925d00c1067f](http://www.scopus.com/inward/record.url?eid=2-s2.0-70350576637&partnerID=40&md5=11ba7f6fb9da241cf1dd925d00c1067f)

DOCUMENT TYPE: Article

SOURCE: Scopus

4.2 Alizadeh, M.H., Mohadeszadeh, M.

Sandwich-type uranium-substituted of bismuthotungstate: Synthesis and structure determination of $[\text{Na}(\text{UO}_2)_2(\text{H}_2\text{O})_4(\text{BiW}_9\text{O}_{33})_2]^{13-}$

(2008) *Journal of Cluster Science*, 19 (2), pp. 435-443. Cited 2 times.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-43349101800&partnerID=40&md5=5ffd31442d98c8bbef58d86770f8e837)

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DOCUMENT TYPE: Article

SOURCE: Scopus

4.3 Zhang, Z., Wang, E., Li, Y., An, H., Qi, Y., Xu, L.

Synthesis, characterization, and crystal structures of two 6-cobalt-containing dimeric polyoxoanions: $[\text{Co}_2(\text{H}_2\text{O})_{10}\text{Co}_4(\text{H}_2\text{O})_2(\text{B}-\alpha\text{-XW}_9\text{O}_{34})_2]^{8-}$ (X = Ge and Si)

(2008) *Journal of Molecular Structure*, 872 (2-3), pp. 176-181. Cited 3 times.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-36148957859&partnerID=40&md5=64f7b68818606b4901ee9bd4f32d34b8)

[36148957859&partnerID=40&md5=64f7b68818606b4901ee9bd4f32d34b8](http://www.scopus.com/inward/record.url?eid=2-s2.0-36148957859&partnerID=40&md5=64f7b68818606b4901ee9bd4f32d34b8)

DOCUMENT TYPE: Article

SOURCE: Scopus

4.4 Zhang, Z., Wang, E., Li, Y., Qi, Y., Tan, H.

Synthesis, characterization and crystal structure of a new dimeric tetra-Ni-substituted sandwich tungstogermanate

(2007) *Journal of Molecular Structure*, 843 (1-3), pp. 128-131. Cited 3 times.

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[34548588578&partnerID=40&md5=8359057625ac51a152a114b00992d8b9](http://www.scopus.com/inward/record.url?eid=2-s2.0-34548588578&partnerID=40&md5=8359057625ac51a152a114b00992d8b9)

DOCUMENT TYPE: Article

SOURCE: Scopus

4.5 Chen, Y.-G., Meng, F.-X., Pang, H.-J., Shi, D.-M., Sun, Y.

A novel uranyl complex with dimeric lacunary polyoxoanion: $[(\text{A}-\alpha\text{-SiW}_9\text{O}_{33})_2\text{K}\{\text{UO}_2(\text{H}_2\text{O})\}_2]^{11-}$

(2007) *Journal of Cluster Science*, 18 (2), pp. 396-405. Cited 1 time.

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[34547161970&partnerID=40&md5=45c260f05f31217322c9b6b989b9eeff](http://www.scopus.com/inward/record.url?eid=2-s2.0-34547161970&partnerID=40&md5=45c260f05f31217322c9b6b989b9eeff)

DOCUMENT TYPE: Article

SOURCE: Scopus

4.6 Liu, Y., Shang, J., Xue, G., Hu, H., Fu, F., Wang, J.

A dimeric Fe(III)-substituted α -Keggin Tungstogermanate: $([\alpha\text{-GeFe}_2\text{W}_{10}\text{O}_{38}(\text{OH})_2]^{14-}$

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[34147145346&partnerID=40&md5=f425a6a01dbce643f039e08d1d562b1b](http://www.scopus.com/inward/record.url?eid=2-s2.0-34147145346&partnerID=40&md5=f425a6a01dbce643f039e08d1d562b1b)

DOCUMENT TYPE: Article

SOURCE: Scopus

4.7 Sun, C.-Y., Liu, S.-X., Wang, C.-L., Xie, L.-H., Zhang, C.-D., Gao, B., Su, Z.-M., Jia, H.-Q.

Synthesis, structure and characterization of a new cobalt-containing germanotungstate with open Wells-Dawson structure: $\text{K}_{13}[\{\text{Co}(\text{H}_2\text{O})\}_2(\mu\text{-H}_2\text{O})_2\text{K}(\text{Ge}_2\text{W}_{18}\text{O}_{66})]$

(2006) *Journal of Molecular Structure*, 785 (1-3), pp. 170-175. Cited 7 times.

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[33644537103&partnerID=40&md5=b0adf8e043ef929573aedec665ff49c](http://www.scopus.com/inward/record.url?eid=2-s2.0-33644537103&partnerID=40&md5=b0adf8e043ef929573aedec665ff49c)

DOCUMENT TYPE: Article

SOURCE: Scopus

5. Rusu D., Rosu C., Crciun C., David L., Rusu M., Marcu Gh.

FT-IR, UV-VIS and EPR investigations of multicopper polyoxotungstates with BiIII as heteroatom

2001, *Journal of Molecular Structure*, 427-433

Factor ISI: 0.868<1

4x10=40

5.1 Bi, L.-H., Al-Kadamany, G., Chubarova, E.V., Dickman, M.H., Chen, L., Gopala, D.S., Richards, R.M., Kelta, B., Nadjó, L., Jaensch, H., Mathys, G., Kortz, U.

Organo-ruthenium supported heteropolytungstates: synthesis, structure, electrochemistry, and oxidation catalysis

(2009) *Inorganic Chemistry*, 48 (21), pp. 10068-10077.

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DOCUMENT TYPE: Article

SOURCE: Scopus

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Trinuclear cobalt(II) sandwiched polyoxotungstobismuthate with antennal copper(II)-complex: A new method to combine hetero-transition-metallic ions

(2009) *Inorganic Chemistry Communications*, 12 (1), pp. 1-3. Cited 1 time.

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[57849101218&partnerID=40&md5=5be50455c69907d0d99441bfa981258d](http://www.scopus.com/inward/record.url?eid=2-s2.0-57849101218&partnerID=40&md5=5be50455c69907d0d99441bfa981258d)

DOCUMENT TYPE: Article

SOURCE: Scopus

5.3 Tan, H., Zhang, Z., Liu, D., Qi, Y., Wang, E., Li, Y.

A new sandwich polyoxometalate constructed from a Zn₆ 12+ hexagon cluster sandwiched by two B- α -[BiW₉O₃₃]⁹⁻

(2008) *Journal of Cluster Science*, 19 (3), pp. 543-550.

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[54249135454&partnerID=40&md5=38da466de8d2197487bfd2f61521dbd3](http://www.scopus.com/inward/record.url?eid=2-s2.0-54249135454&partnerID=40&md5=38da466de8d2197487bfd2f61521dbd3)

DOCUMENT TYPE: Article

SOURCE: Scopus

5.4 Liu, H., Qin, C., Wei, Y.-G., Xu, L., Gao, G.-G., Li, F.-Y., Qu, X.-S.

Copper-complex-linked polytungsto-bismuthate (-antimonite) chain containing sandwich Cu(II) ions partially modified with imidazole ligand

(2008) *Inorganic Chemistry*, 47 (10), pp. 4166-4172. Cited 13 times.

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[44349093752&partnerID=40&md5=e4d33a48e7073bd70c08ee978dd3f421](http://www.scopus.com/inward/record.url?eid=2-s2.0-44349093752&partnerID=40&md5=e4d33a48e7073bd70c08ee978dd3f421)

DOCUMENT TYPE: Article

SOURCE: Scopus

6. David L., Craciun C., Cozar O., Chis V., Agut C., Rusu D., Rusu M.

Spectroscopic studies of some oxygen-bonded copper(II) β -diketonate complexes

2001, *Journal of Molecular Structure*, 573-578

Factor ISI: 0.868<1

4x10=40

6.1 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.

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DOCUMENT TYPE: Article

SOURCE: Scopus

6.2 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.

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DOCUMENT TYPE: Article

SOURCE: Scopus

6.3 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-hidroxipropenal]

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<http://www.scopus.com/inward/record.url?eid=2-s2.0-33845719135&partnerID=40&md5=da7fac847fc82e6499bee2f9fe35676e>

DOCUMENT TYPE: Article

SOURCE: Scopus

6.4 Yuan, L.-H., Wu, Q.-J., Liu, S.-X.

(Morpholine-κN)(salicylaldehyde 4-nitrobenzoyl-hydrazone-κ³O,N,O')copper(II)

(2005) *Acta Crystallographica Section E: Structure Reports Online*, 61 (7), pp. m1310-m1312. Cited 2 times.

<http://www.scopus.com/inward/record.url?eid=2-s2.0-32244449182&partnerID=40&md5=5753d6353425b84c5b1fb66b34490832>

DOCUMENT TYPE: Article

SOURCE: Scopus

7. Cozar O., Ardelean I., Bratu I., Simon S., Craciun C., David L., Cefan C.

IR and EPR studies on some lithium-borate glasses with vanadium ions

2001, *Journal of Molecular Structure*, 421-425

Factor ISI : 0.868<1

8x10=80

7.1 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. Cited 7 times.

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DOCUMENT TYPE: Article

SOURCE: Scopus

7.2 Som, T., Karmakar, B.

Infrared-to-red upconversion luminescence in samarium-doped antimony glasses

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<http://www.scopus.com/inward/record.url?eid=2-s2.0-51549117480&partnerID=40&md5=465cf7f69a180b58e5b60793292ed846>

DOCUMENT TYPE: Article

SOURCE: Scopus

7.3 Cai, Q., Lu, B., Zhang, J., Shan, Y.

Synthesis, structure and properties of $(\text{H}_2\text{NCH}_2\text{CH}_2\text{NH}_2)_3 \{(\text{VO})_6 [\text{B}_{10}\text{O}_{16} (\text{OH})_6]_2\} \cdot 11\text{H}_2\text{O}$

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<http://www.scopus.com/inward/record.url?eid=2-s2.0-41849110516&partnerID=40&md5=d0e62801bec562f9fe2072bd65728074>

DOCUMENT TYPE: Article

SOURCE: Scopus

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7.4 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 V_2O_5

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DOCUMENT TYPE: Article

SOURCE: Scopus

SOURCE: Scopus

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Effect of V_2O_5 on structure and electrical properties of zinc borate glasses

(2007) *Journal of Alloys and Compounds*, 428 (1-2), pp. 206-213. Cited 2 times.

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DOCUMENT TYPE: Article

SOURCE: Scopus

SOURCE: Scopus

7.6 Sindhu, S., Sanghi, S., Agarwal, A., Seth, V.P., Kishore, N.

Structural, optical, physical and electrical properties of $\text{V}_2\text{O}_5 \cdot \text{SrO} \cdot \text{B}_2\text{O}_3$ glasses

(2006) *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, 64 (1), pp. 196-204. Cited 3 times.

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DOCUMENT TYPE: Article

SOURCE: Scopus

SOURCE: Scopus

7.7 Chakradhar, R.P.S., Ramesh, K.P., Rao, J.L., Ramakrishna, J.

Influence of mixed alkali on the spectral properties of vanadyl ions doped $x\text{Na}_2\text{O} \cdot (30 - x)\text{K}_2\text{O} \cdot 60\text{B}_2\text{O}_3$ glasses - An EPR and optical study

(2005) *Materials Research Bulletin*, 40 (6), pp. 1028-1043. Cited 2 times.

<http://www.scopus.com/inward/record.url?eid=2-s2.0-18844403393&partnerID=40&md5=834a6936b7782ba199d1f03720d4c297>

DOCUMENT TYPE: Article

SOURCE: Scopus

SOURCE: Scopus

7.8 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. Cited 7 times.

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[14144251272&partnerID=40&md5=a27e8189261d442fafbe0989697f4000](http://www.scopus.com/inward/record.url?eid=2-s2.0-14144251272&partnerID=40&md5=a27e8189261d442fafbe0989697f4000)

DOCUMENT TYPE: Article

SOURCE: Scopus

8. David L., Craciun C., Rusu M., Cozar O., Ilea P., Rusu D.

Spectroscopic and electrochemical investigations of the

K₈[P₂VMo₇W₁₆O₆₂]·31H₂O heteropolyoxometalate

2000, *Polyhedron*, (16-17) 1917-1923

Factor ISI: 1.335

2x10x1.335=26.7

8.1 Tomşa, A.-R., Cioloboc, D., Todea, A.M., Silaghi-Dumitrescu, R., Damian, G., Rusu, M.

Synthesis, spectroscopic and electrochemical characterization of a new chromium (III) substituted dawson polyoxometalate

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[75649083116&partnerID=40&md5=b0317a043fe72529c2b29234a625f759](http://www.scopus.com/inward/record.url?eid=2-s2.0-75649083116&partnerID=40&md5=b0317a043fe72529c2b29234a625f759)

DOCUMENT TYPE: Article

SOURCE: Scopus

8.2 Limoges, B.R., Stanis, R.J., Turner, J.A., Herring, A.M.

Electrocatalyst materials for fuel cells based on the polyoxometalates [PMo(12 - N)V_nO₄₀](3 + n)- (n = 0-3)

(2005) *Electrochimica Acta*, 50 (5), pp. 1169-1179. Cited 28 times.

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[10444234324&partnerID=40&md5=86350cc4267bf4d9b61c51d48a2c9040](http://www.scopus.com/inward/record.url?eid=2-s2.0-10444234324&partnerID=40&md5=86350cc4267bf4d9b61c51d48a2c9040)

DOCUMENT TYPE: Article

SOURCE: Scopus

9. Rusu M., Rusu D., Rosu C., Craciun C., David L., Tomsa A.R., Marcu Gh.

Keggin polyoxotungstoborate with uranium(IV)

2000, *Journal of Radioanalytical and Nuclear Chemistry*, (2) 363-366

Factor ISI: 0.729<1

1x10=10

9.1 Tomsa, A.-R., Koutsodimou, A., Falaras, P., Bernard, M.-C., Rusu, M.

New organotin derivatives of trilacunary Keggin polyanions

(2005) *Synthesis and Reactivity in Inorganic, Metal-Organic and Nano-Metal Chemistry*, 35 (8), pp. 651-659. Cited 1 time.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-27644441475&partnerID=40&md5=325d08ee705cffc09ce4b0bb57e28dfa)

[27644441475&partnerID=40&md5=325d08ee705cffc09ce4b0bb57e28dfa](http://www.scopus.com/inward/record.url?eid=2-s2.0-27644441475&partnerID=40&md5=325d08ee705cffc09ce4b0bb57e28dfa)

DOCUMENT TYPE: Article

SOURCE: Scopus

10. Cozar O., Ardelean I., Simon V., David L., Mih V., Vedean N.
The local structure and interactions between V⁴⁺ ions in soda-phosphate glasses
1999, *Applied Magnetic Resonance*, (4) 529-537
Factor ISI:0.66<1 **3x10=30**

10.1 Ardelean, I., Cozar, O., Vedeanu, N., Rusu, D., Andronache, C.
EPR study of V₂O₅-P₂O₅-Li₂O glass system
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DOCUMENT TYPE: Article

SOURCE: Scopus

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DOCUMENT TYPE: Article

SOURCE: Scopus

10.3 Vedeanu, N., Cozar, O., Ardelean, I., Filip, S.
Spectroscopic investigation on some calcium-phosphate glasses
(2006) *Journal of Optoelectronics and Advanced Materials*, 8 (3), pp. 1135-1139. Cited 5 times.

<http://www.scopus.com/inward/record.url?eid=2-s2.0-33745956789&partnerID=40&md5=95b45483dca17cc35ce3fdd4f90eeb54>

DOCUMENT TYPE: Conference Paper

SOURCE: Scopus

11. Cozar O., Ardelean I., Simon V., David L., Vedean N., Mih V.
EPR studies of Cu²⁺ and V⁴⁺ ions in phosphate glasses
1999, *Applied Magnetic Resonance*, (4) 473-480
Factor ISI : 0.66<1 **1x10=10**

11.1 Vedeanu, N., Cozar, O., Ardelean, I., Lendl, B.
IR and Raman investigation of x(CuO·V₂O₅)(1-x) [P₂O₅·CaF₂] glass system
(2006) *Journal of Optoelectronics and Advanced Materials*, 8 (1), pp. 78-81. Cited 4 times.

<http://www.scopus.com/inward/record.url?eid=2-s2.0-33645998153&partnerID=40&md5=a422db902696eb912ee19f4bfe7385ce>

DOCUMENT TYPE: Conference Paper

SOURCE: Scopus

12. Chis V., Brustolon M., Morari C., Cozar O., David L.
Experimental and theoretical structural parameters of the glycine $\dot{C}H_2-NH_2$ radical
1999, *Journal of Molecular Structure*, 283-286
Factor ISI: 0.807<1 **4x10=40**

12.1 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. Cited 5 times.

<http://www.scopus.com/inward/record.url?eid=2-s2.0-36648998720&partnerID=40&md5=9691fb0f443369f13696f091ff95baac>
DOCUMENT TYPE: Article

SOURCE: Scopus

12.2 Gil, A., Simon, S., Sodupe, M., Bertran, J.
Gas-phase proton-transport self-catalysed isomerisation of glutamine radical cation: The important role of the side-chain
(2007) *Theoretical Chemistry Accounts*, 118 (3), pp. 589-595. Cited 3 times.

<http://www.scopus.com/inward/record.url?eid=2-s2.0-34548449767&partnerID=40&md5=543ea7736f4a19062003fe2062cf1299>
DOCUMENT TYPE: Article

SOURCE: Scopus

12.3 Gil, A., Bertran, J., Sodupe, M.
Effects of ionization on N -glycylglycine peptide: Influence of intramolecular hydrogen bonds

(2006) *Journal of Chemical Physics*, 124 (15), art. no. 154306, . Cited 11 times.

<http://www.scopus.com/inward/record.url?eid=2-s2.0-34547648591&partnerID=40&md5=1e3804902f68fa2aeba785bfcfbf231f7>
DOCUMENT TYPE: Article

SOURCE: Scopus

12.4 Simon, S., Gil, A., Sodupe, M., Bertrán, J.
Structure and fragmentation of glycine, alanine, serine and cysteine radical cations. A theoretical study
(2005) *Journal of Molecular Structure: THEOCHEM*, 727 (1-3 SPEC. ISS.), pp. 191-197. Cited 19 times.

<http://www.scopus.com/inward/record.url?eid=2-s2.0-23644441269&partnerID=40&md5=a83d125aa071af1cd298e0955e255626>
DOCUMENT TYPE: Article

SOURCE: Scopus

13. David L., Rusu M., Cozar O., Rusu D., Todica M., Balan C.
Spectroscopic and magnetic investigations of some transition metal complexes with N-4-methoxyphenyl-N-4-chlorobenzoyl hydrazide as ligand
1999, *Journal of Molecular Structure*, 149-152
Factor ISI: 0.807<1 **1x10=10**

13.1 Sechi, M., Azzena, U., Delussu, M.P., Dallochio, R., Dessi, A., Cosseddu, A., Pala, N., Neamati, N.

Design and synthesis of bis-amide and hydrazide-containing derivatives of malonic acid as potential HIV-1 integrase inhibitors

(2008) *Molecules*, 13 (10), pp. 2442-2461.

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[55249107993&partnerID=40&md5=5de1b96d3fba887a0ccb7db5d48d32bf](http://www.scopus.com/inward/record.url?eid=2-s2.0-55249107993&partnerID=40&md5=5de1b96d3fba887a0ccb7db5d48d32bf)

DOCUMENT TYPE: Article

SOURCE: Scopus

14. Haiduc I., David L., Cozar O., Micu-Semeniuc R., Mezei G., Armenean M. Spectroscopic and magnetic studies of some copper(II) and chromium(III) complexes with dithiophosphonates as ligands

1999, *Journal of Molecular Structure*, 153-157

Factor ISI: 0.807<1

3x10=30

14.1 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.

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[33745315207&partnerID=40&md5=5f6d78b342093e54f1faa08631d6c0dd](http://www.scopus.com/inward/record.url?eid=2-s2.0-33745315207&partnerID=40&md5=5f6d78b342093e54f1faa08631d6c0dd)

DOCUMENT TYPE: Article

SOURCE: Scopus

14.2 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 für Anorganische und Allgemeine Chemie*, 632 (2), pp. 295-300. Cited 5 times.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-31144439830&partnerID=40&md5=2cb61ebf28e6d4dda322c0c8dc0b0a27)

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DOCUMENT TYPE: Article

SOURCE: Scopus

14.3 Karakus, M., Yilmaz, H., Bulak, E.

Synthesis and characterization of Zn(II) and Cd(II) complexes with bisdithiophosphonates

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[18844412725&partnerID=40&md5=016b09c95f51a48706650d5b57d5aed7](http://www.scopus.com/inward/record.url?eid=2-s2.0-18844412725&partnerID=40&md5=016b09c95f51a48706650d5b57d5aed7)

DOCUMENT TYPE: Article

SOURCE: Scopus

15. Cinta S., Iliescu T., Astilean S., David L., Cozar O., Kiefer W.
1,4-Benzodiazepine drags adsorption on the Ag colloidal surface
1999, *Journal of Molecular Structure*, 685-688
Factor ISI:0.807<1 **3x10=30**

15.1 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. Cited 1 time.

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[35948959710&partnerID=40&md5=914e71253c6b3f42fe564425ef164a2f](http://www.scopus.com/inward/record.url?eid=2-s2.0-35948959710&partnerID=40&md5=914e71253c6b3f42fe564425ef164a2f)

DOCUMENT TYPE: Article

SOURCE: Scopus

15.2 Ojha, A.K., Singha, A., Dasgupta, S., Singh, R.K., Roy, A.

pH dependent surface enhanced Raman study of Phe + Ag complex and DFT calculations
for spectral analysis

(2006) *Chemical Physics Letters*, 431 (1-3), pp. 121-126. Cited 6 times.

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[33750335075&partnerID=40&md5=406f7c8b1ccca418388d69a18c2e91cd](http://www.scopus.com/inward/record.url?eid=2-s2.0-33750335075&partnerID=40&md5=406f7c8b1ccca418388d69a18c2e91cd)

DOCUMENT TYPE: Article

SOURCE: Scopus

15.3 Sackmann, M., Materny, A.

Surface enhanced Raman scattering (SERS) - A quantitative analytical tool?

(2006) *Journal of Raman Spectroscopy*, 37 (1-3), pp. 305-310. Cited 28 times.

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[32044454929&partnerID=40&md5=4c50546b0fd4be1c79d9b31e69922a38](http://www.scopus.com/inward/record.url?eid=2-s2.0-32044454929&partnerID=40&md5=4c50546b0fd4be1c79d9b31e69922a38)

DOCUMENT TYPE: Conference Paper

SOURCE: Scopus

**16. Damian G., Miclaus V., Cozar O., Todica M., David L., Chis V., Ristoiu D.,
Farcas S.**

**EPR study of some copper heterocyclic azomethine complexes adsorbed on X and Y
zeolites**

1999, *Journal of Molecular Structure*, 287-289

Factor ISI: 0.807<1

2x10=20

16.1 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. Cited 2 times.

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[43749086723&partnerID=40&md5=630ce72eb6b5fe9beacaea00ccf0fee4](http://www.scopus.com/inward/record.url?eid=2-s2.0-43749086723&partnerID=40&md5=630ce72eb6b5fe9beacaea00ccf0fee4)

DOCUMENT TYPE: Article

SOURCE: Scopus

16.2 Berthomieu, D., Delahay, G.

Recent advances in CuI/IIY: Experiments and modeling

(2006) *Catalysis Reviews - Science and Engineering*, 48 (3), pp. 269-313. Cited 13 times.
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DOCUMENT TYPE: Review
SOURCE: Scopus

17. Damian G., Cozar O., Miclaus V., Paizs Cs., Znamirovski V., Chis V., David L.
ESR study of the dynamics of adsorbed nitroxide radicals on porous surfaces in the
dehydration process
1998, *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, (1-3) 1-6
Factor ISI: 1.401 **1x10x1.401=14**

17.1 Lawton, J.S., Budil, D.E.
Investigation of water and methanol sorption in monovalent- and multivalent-ion-exchanged nafion membranes using electron spin resonance
(2009) *Journal of Physical Chemistry B*, 113 (31), pp. 10679-10685. Cited 2 times.
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DOCUMENT TYPE: Article
SOURCE: Scopus

18. Cozar O., Chis V., David L., Damian G., Barbur I.
ESR investigation of gamma-irradiated aspirin
1997, *Journal of Radioanalytical and Nuclear Chemistry*, (2) 241-244
Factor ISI: 0.408<1 **1x10=10**

18.1 Juárez-Calderón, J.M., Negrón-Mendoza, A., Gómez-Vidales, V., Ramos-Bernal, S.
Study of dosimetric properties of acetylsalicylic acid in pharmaceutical preparations by EPR spectroscopy
(2009) *Journal of Radioanalytical and Nuclear Chemistry*, 280 (2), pp. 245-249.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-65549109843&partnerID=40&md5=1cf068783d8d0509f7beaf2f88253538>
DOCUMENT TYPE: Conference Paper
SOURCE: Scopus

19. Venter M., Haiduc I., David L., Cozar O.
IR and ESR studies on new bis-triazenido cobalt(II) and copper(II) complexes
1997, *Journal of Molecular Structure*, 483-486
Factor ISI: 0.807<1 **2x10=20**

19.1 Belaïd, S., Landreau, A., Djebbar, S., Benali-Baïtich, O., Khan, M.A., Bouet, G.
Synthesis, characterisation and antifungal activity of a series of Cobalt(II) and Nickel(II) complexes with ligands derived from reduced N, N'-o-Phenylenebis(Salicylideneimine)
(2008) *Transition Metal Chemistry*, 33 (4), pp. 511-516. Cited 1 time.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-42149103155&partnerID=40&md5=f0aebd9c185ef67d0863e84aed00a2c8>

DOCUMENT TYPE: Article

SOURCE: Scopus

19.2 Belaïd, S., Landreau, A., Djebbar, S., Benali-Baïtich, O., Khan, M.A., Bouet, G. Synthesis, characterisation and antifungal activity of a series of Cobalt(II) and Nickel(II) complexes with ligands derived from reduced N, N'-o-Phenylenebis(Salicylideneimine) (2008) *Transition Metal Chemistry*, 33 (4), pp. 511-516. Cited 1 time.

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[42149103155&partnerID=40&md5=f0aebd9c185ef67d0863e84aed00a2c8](http://www.scopus.com/inward/record.url?eid=2-s2.0-42149103155&partnerID=40&md5=f0aebd9c185ef67d0863e84aed00a2c8)

DOCUMENT TYPE: Article

SOURCE: Scopus

20. De La Fuente M., Cozar O., David L., Navarro R., Hernanz A., Bratu I. EPR study of the 1:1 complexes of chromium(III) and copper(II) with 5'-GMP and 5'-CMP

1997, *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, (4 PART A) 637-641

Factor ISI: 0.76<1

1x10=10

20.1 Santangelo, M.G., Medina-Molner, A., Schweiger, A., Mitrikas, G., Spingler, B. Structural analysis of Cu(II) ligation to the 5'-GMP nucleotide by pulse EPR spectroscopy

(2007) *Journal of Biological Inorganic Chemistry*, 12 (6), pp. 767-775. Cited 5 times.

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[34547405202&partnerID=40&md5=840d44d372f9bc5981279a50d442a001](http://www.scopus.com/inward/record.url?eid=2-s2.0-34547405202&partnerID=40&md5=840d44d372f9bc5981279a50d442a001)

DOCUMENT TYPE: Article

SOURCE: Scopus

21. Angeloni L., Caneschi A., David L., Fabretti A., Ferraro F., Gatteschi D., Le Lirzin A., Sessoli R.

Crystal structures, magnetic and non-linear optical properties of methoxyphenyl nitronyl-nitroxide radicals

1994, *Journal of Materials Chemistry*, (7) 1047-1053

Factor ISI: 1.924

5x10x1.924=96.2

21.1 Tretyakov, E.V., Ovcharenko, V.I.

The chemistry of nitroxide radicals in the molecular design of magnets

(2009) *Russian Chemical Reviews*, 78 (11), pp. 971-1012.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-76149106151&partnerID=40&md5=37248cba9b6c7018a65450602105cbb6)

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DOCUMENT TYPE: Article

SOURCE: Scopus

21.2 Kurata, T., Koshika, K., Kato, F., Kido, J., Nishide, H.

Triarylamine-combined nitronyl nitroxide and its hole-transporting property

(2007) *Polyhedron*, 26 (9-11), pp. 1776-1780. Cited 4 times.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-34249694159&partnerID=40&md5=735ad859f8eae9e38736a63a347e44be)

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DOCUMENT TYPE: Article

SOURCE: Scopus

21.3 Bogani, L., Cavigli, L., Bernot, K., Sessoli, R., Gurioli, M., Gatteschi, D.
Evidence of intermolecular π -stacking enhancement of second-harmonic generation in a family of single chain magnets

(2006) *Journal of Materials Chemistry*, 16 (26), pp. 2587-2592. Cited 16 times.

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[33745679373&partnerID=40&md5=d9357c0515257badd77924058be37a93](http://www.scopus.com/inward/record.url?eid=2-s2.0-33745679373&partnerID=40&md5=d9357c0515257badd77924058be37a93)

DOCUMENT TYPE: Article

SOURCE: Scopus

21.4 Cavigli, L., Sessoli, R., Gurioli, M., Bogani, L.

Second harmonic generation in a molecular magnetic chain

(2006) *Physica Status Solidi (A) Applications and Materials*, 203 (6), pp. 1402-1408.

Cited 2 times.

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[33646765409&partnerID=40&md5=ce1c8df6701e4d3ca650361d67cbd8fe](http://www.scopus.com/inward/record.url?eid=2-s2.0-33646765409&partnerID=40&md5=ce1c8df6701e4d3ca650361d67cbd8fe)

DOCUMENT TYPE: Conference Paper

SOURCE: Scopus

21.5 Deumal, M., Robb, M.A., Novoa, J.J.

Quantitative analysis of the magnetism of the meta-(methoxy)phenyl nitronyl nitroxide crystal: A bottom-up analysis of a crystal presenting competing ferro and antiferromagnetic interactions

(2005) *Polyhedron*, 24 (16-17), pp. 2368-2376. Cited 1 time.

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[27644594757&partnerID=40&md5=42e58c1d0220c2a1824d630702a623fc](http://www.scopus.com/inward/record.url?eid=2-s2.0-27644594757&partnerID=40&md5=42e58c1d0220c2a1824d630702a623fc)

DOCUMENT TYPE: Conference Paper

SOURCE: Scopus

22. Caneschi A., Chiesi P., David L., Ferraro F., Gatteschi D., Sessoli R.
Crystal structure and magnetic properties of two nitronyl nitroxide biradicals and of their copper(II) complexes

1993, *Inorganic Chemistry*, (8) 1445-1453

Factor ISI: 2.722

32x10x2.722=817.04

22.1 Wang, X.-F., Nie, C.-M., Liao, B.-B., Wang, Y.-F., Peng, J.-N., Zhao, Q.-H., Fang, R.-B.

Syntheses and crystal structures of two nitronyl nitroxide: Biradical and cationradical

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[72249099704&partnerID=40&md5=fde9a6b45d3c67e2c9605be135f5d581](http://www.scopus.com/inward/record.url?eid=2-s2.0-72249099704&partnerID=40&md5=fde9a6b45d3c67e2c9605be135f5d581)

DOCUMENT TYPE: Article

SOURCE: Scopus

22.2 Zhang, X., Wang, S.

Molecular magnetic materials of nitroxide radical-metal complexes

(2009) *Progress in Chemistry*, 21 (12), pp. 2525-2535.

<http://www.scopus.com/inward/record.url?eid=2-s2.0-76349100025&partnerID=40&md5=cac4fe240660b4d8892fadd439fd5623>

DOCUMENT TYPE: Article

SOURCE: Scopus

22.3 Tretyakov, E.V., Ovcharenko, V.I.

The chemistry of nitroxide radicals in the molecular design of magnets

(2009) Russian Chemical Reviews, 78 (11), pp. 971-1012.

<http://www.scopus.com/inward/record.url?eid=2-s2.0-76149106151&partnerID=40&md5=37248cba9b6c7018a65450602105cbb6>

DOCUMENT TYPE: Article

SOURCE: Scopus

22.4 Budnikova, Y.G., Gryaznova, T.V., Kadirov, M.K., Tretyakov, E.V., Kholin, K.V., Ovcharenko, V.I., Sagdeev, R.Z., Sinyashin, O.G.

Electrochemistry of nitronyl and imino nitroxides

(2009) Russian Journal of Physical Chemistry A, 83 (11), pp. 1976-1980.

<http://www.scopus.com/inward/record.url?eid=2-s2.0-70449350828&partnerID=40&md5=5f8e65f8198a3dc1912537e4bf0ac2aa>

DOCUMENT TYPE: Article

SOURCE: Scopus

22.5 Guo, L., Zhang, X.-H., Wang, Y.-X., Wang, S.-P., Yang, S.-T.

Synthesis and crystal structure of a nitronyl nitroxide complex

{[Zn(NIT4Py)(fum)(H₂O)₂]·H₂O} n

(2009) Jiegou Huaxue, 28 (8), pp. 1023-1027.

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DOCUMENT TYPE: Article

SOURCE: Scopus

22.6 Llunell, M., Alemany, P., Moreira, I.D.P.R.

Electronic structure and magnetic properties of potassium ozonide KO₃

(2009) Inorganic Chemistry, 48 (13), pp. 5938-5945.

<http://www.scopus.com/inward/record.url?eid=2-s2.0-67649863331&partnerID=40&md5=2c9c52749d75fd5a84ee925f499bfbf9>

DOCUMENT TYPE: Article

SOURCE: Scopus

22.7 Matsuoka, N., Yoshioka, N.

Electronic structures and magnetic properties of copper(II) complexes with axially coordinated nitronyl nitroxide radicals

(2009) Polyhedron, 28 (9-10), pp. 1875-1879. Cited 1 time.

<http://www.scopus.com/inward/record.url?eid=2-s2.0-67349170775&partnerID=40&md5=4500840274409979994515c536b23598>

DOCUMENT TYPE: Article

SOURCE: Scopus

22.8 Barone, V., Cacelli, I., Ferretti, A., Prampolini, G.

Modified virtual orbitals for CI calculations of energy splitting in organic diradicals

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DOCUMENT TYPE: Article

SOURCE: Scopus

22.9 Tretyakov, E., Tolstikov, S., Mareev, A., Medvedeva, A., Romanenko, G., Stass, D., Bogomyakov, A., Ovcharenko, V.

New cascade syntheses of nitronyl nitroxides and a new synthetic approach to imino nitroxides

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DOCUMENT TYPE: Article

SOURCE: Scopus

SOURCE: Scopus

22.10 Barone, V., Cacelli, I., Ferretti, A.

Magnetic coupling in bis-nitronyl nitroxide radicals: The role of aromatic bridges

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DOCUMENT TYPE: Article

SOURCE: Scopus

SOURCE: Scopus

22.11 Ovcharenko, V.I., Romanenko, G.V., Maryunina, K.Yu., Bogomyakov, A.S., Gorelik, E.V.

Thermally induced magnetic anomalies in solvates of the bis(hexafluoroacetylacetonate)copper(II) complex with pyrazolyl-substituted nitronyl nitroxide

(2008) Inorganic Chemistry, 47 (20), pp. 9537-9552. Cited 4 times.

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DOCUMENT TYPE: Article

SOURCE: Scopus

SOURCE: Scopus

22.12 Gorelik, E.V., Ovcharenko, V.I., Baumgarten, M.

"Hidden" spin-spin interactions in complex multispin solids

(2008) European Journal of Inorganic Chemistry, (18), pp. 2837-2846. Cited 7 times.

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DOCUMENT TYPE: Article

SOURCE: Scopus

SOURCE: Scopus

22.13 Arone, V., Cacelli, I., Ferretti, A., Girlanda, M.

Toward an effective yet reliable many-body computation of magnetic couplings in bisnitronyl nitroxide biradicals

(2008) Journal of Chemical Physics, 128 (17), art. no. 174303, . Cited 2 times.

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DOCUMENT TYPE: Article

SOURCE: Scopus

SOURCE: Scopus

22.14 Fedin, M., Veber, S., Gromov, I., Maryunina, K., Fokin, S., Romanenko, G., Sagdeev, R., Ovcharenko, V., Bagryanskaya, E.
Thermally induced spin transitions in nitroxide-copper(II)-nitroxide spin triads studied by EPR

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[38149063895&partnerID=40&md5=d880dc1e45d55d405b27ec808655ed30](http://www.scopus.com/inward/record.url?eid=2-s2.0-38149063895&partnerID=40&md5=d880dc1e45d55d405b27ec808655ed30)

DOCUMENT TYPE: Article

SOURCE: Scopus

22.15 Wang, Y.-F., Liu, Y.-Y.

Crystal structure of tris(ethylenediamine)nickel(II) diperchlorate 2-(4-pyridyl)-4,4,5,5-tetramethylimidazoline-1-oxyl-3-oxide solvate monohydrate, $[\text{Ni}(\text{C}_2\text{H}_8\text{N}_2)_3][\text{ClO}_4]_2 \cdot \text{C}_{12}\text{H}_{16}\text{N}_3\text{O}_2 \cdot \text{H}_2\text{O}$

(2007) *Zeitschrift für Kristallographie - New Crystal Structures*, 222 (4), pp. 439-441.

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[42149087736&partnerID=40&md5=3685c1f3151540e55da4850bc267f0d0](http://www.scopus.com/inward/record.url?eid=2-s2.0-42149087736&partnerID=40&md5=3685c1f3151540e55da4850bc267f0d0)

DOCUMENT TYPE: Article

SOURCE: Scopus

22.16 Gilroy, J.B., McKinnon, S.D.J., Kennepohl, P., Zsombor, M.S., Ferguson, M.J., Thompson, L.K., Hicks, R.G.

Probing electronic communication in stable benzene-bridged verdazyl diradicals

(2007) *Journal of Organic Chemistry*, 72 (21), pp. 8062-8069. Cited 7 times.

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[35348860149&partnerID=40&md5=dcfbc860d6b7956c04ce76e986f5eb71](http://www.scopus.com/inward/record.url?eid=2-s2.0-35348860149&partnerID=40&md5=dcfbc860d6b7956c04ce76e986f5eb71)

DOCUMENT TYPE: Article

SOURCE: Scopus

22.17 Romanenko, G.V., Tolstikov, S.E., Tretyakov, E.V., Fokin, S.V., Ikorskii, V.N., Ovcharenko, V.I.

Shift of stereochemical nonrigidity from coordination units to polymethylene fragments in heterospin copper(II) hexafluoroacetylacetonate complexes with nitronyl nitroxide biradicals

(2007) *Russian Chemical Bulletin*, 56 (9), pp. 1795-1804.

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[41049117742&partnerID=40&md5=5f8543c298599555f1d545590893dc1c](http://www.scopus.com/inward/record.url?eid=2-s2.0-41049117742&partnerID=40&md5=5f8543c298599555f1d545590893dc1c)

DOCUMENT TYPE: Article

SOURCE: Scopus

22.18 Maekawa, K., Ise, T., Shiomi, D., Sato, K., Takui, T.

Cytosine-substituted nitronyl nitroxide radicals as building blocks for generalized ferrimagnetic system

(2007) *Polyhedron*, 26 (9-11), pp. 2347-2352. Cited 1 time.

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[34249649670&partnerID=40&md5=8df34294048a70beca658a1843083116](http://www.scopus.com/inward/record.url?eid=2-s2.0-34249649670&partnerID=40&md5=8df34294048a70beca658a1843083116)

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SOURCE: Scopus

22.19 Kanzaki, Y., Shiomi, D., Ise, T., Sato, K., Takui, T.

Magnetic interactions in p-phenylene-bis(nitronyl nitroxide) biradicals with large torsion angles

(2007) Polyhedron, 26 (9-11), pp. 1890-1894. Cited 1 time.

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SOURCE: Scopus

22.20 Hayakawa, K., Ise, T., Shiomi, D., Sato, K., Takui, T.

Stable iminonitroxide biradicals: Building blocks for organic heterospin, heteromolecular complexes

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DOCUMENT TYPE: Article

SOURCE: Scopus

22.21 Barone, V., Brustolon, M., Cimino, P., Polimeno, A., Zerbetto, M., Zoleo, A.

Development and validation of an integrated computational approach for the modeling of cw-ESR spectra of free radicals in solution: p-(methylthio)phenyl nitronyl nitroxide in toluene as a case study

(2006) Journal of the American Chemical Society, 128 (49), pp. 15865-15873. Cited 16 times.

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[33845401649&partnerID=40&md5=50787427667db034e360e7faa1358a07](http://www.scopus.com/inward/record.url?eid=2-s2.0-33845401649&partnerID=40&md5=50787427667db034e360e7faa1358a07)

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SOURCE: Scopus

22.22 Rajadurai, C., Enkelmann, V., Ikorskii, V., Ovcharenko, V.I., Baumgarten, M.

Metal-biradical chains from a high-spin ligand and bis(hexafluoroacetylacetonato)copper(II)

(2006) Inorganic Chemistry, 45 (24), pp. 9664-9669. Cited 5 times.

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[33846112679&partnerID=40&md5=43fd9374d357dc227ab4dfc60124dad4](http://www.scopus.com/inward/record.url?eid=2-s2.0-33846112679&partnerID=40&md5=43fd9374d357dc227ab4dfc60124dad4)

DOCUMENT TYPE: Article

SOURCE: Scopus

22.23 Ovcharenko, V.I., Fokin, S.V., Romanenko, G.V., Ikorskii, V.N., Sagdeev, R.Z.,

Yachevskii, D.S., Chizhov, D.L., Charushin, V.N.

Heterospin complexes based on dinuclear CuII triketonate and nitroxides

(2006) Russian Chemical Bulletin, 55 (11), pp. 1904-1908.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-34247115194&partnerID=40&md5=9a7f3d9038cf31aa3c5c228a5b28c883)

[34247115194&partnerID=40&md5=9a7f3d9038cf31aa3c5c228a5b28c883](http://www.scopus.com/inward/record.url?eid=2-s2.0-34247115194&partnerID=40&md5=9a7f3d9038cf31aa3c5c228a5b28c883)

DOCUMENT TYPE: Article

SOURCE: Scopus

22.24 Hayakawa, K., Shiomi, D., Ise, T., Sato, K., Takui, T.

Pyridine-substituted nitronyl nitroxide biradicals: A triplet ($S = 1$) ground state lasting out N-methylation

(2006) Journal of Materials Chemistry, 16 (42), pp. 4146-4154. Cited 6 times.

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DOCUMENT TYPE: Article

SOURCE: Scopus

22.25 Tretyakov, E., Fokin, S., Romanenko, G., Ikorskii, V., Vasilevsky, S., Ovcharenko, V.

2D and 3D Cu(hfac)₂ complexes with nitronyl nitroxide biradicals

(2006) *Inorganic Chemistry*, 45 (9), pp. 3671-3678. Cited 19 times.

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DOCUMENT TYPE: Article

SOURCE: Scopus

SOURCE: Scopus

22.26 Ali, M.E., Datta, S.N.

Broken-symmetry density functional theory investigation on bis-nitronyl nitroxide diradicals: Influence of length and aromaticity of couplers

(2006) *Journal of Physical Chemistry A*, 110 (8), pp. 2776-2784. Cited 24 times.

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SOURCE: Scopus

SOURCE: Scopus

22.27 Luneau, D., Rey, P.

Magnetism of metal-nitroxide compounds involving bis-chelating imidazole and benzimidazole substituted nitronyl nitroxide free radicals

(2005) *Coordination Chemistry Reviews*, 249 (23), pp. 2591-2611. Cited 45 times.

<http://www.scopus.com/inward/record.url?eid=2-s2.0-27844610722&partnerID=40&md5=5c2df8db882ef339fe463e5d6d292478>

DOCUMENT TYPE: Review

SOURCE: Scopus

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22.28 Maryunina, K., Fokin, S., Ovcharenko, V., Romanenko, G., Ikorskii, V.

Solid solutions: An efficient way to control the temperature of spin transition in heterospin crystals MxCu_{1-X}(hfac)₂L (M = Mn, Ni, Co; L = nitronyl nitroxide)

(2005) *Polyhedron*, 24 (16-17), pp. 2094-2101. Cited 5 times.

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DOCUMENT TYPE: Conference Paper

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22.29 Ise, T., Shiomi, D., Sato, K., Takui, T.

Nitronyl nitroxide triradical as a model compound for generalized ferrimagnetism

(2005) *Synthetic Metals*, 154 (1-3), pp. 297-300. Cited 3 times.

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DOCUMENT TYPE: Conference Paper

SOURCE: Scopus

SOURCE: Scopus

22.30 Liu, C.-B., Sun, Y.-M., Zheng, B., Wang, R.-X.

Theoretical study on magneto-structural correlation in axially coordinated complexes of copper(II) with nitronyl nitroxide radical

(2005) Chemical Physics Letters, 411 (4-6), pp. 416-422. Cited 5 times.
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DOCUMENT TYPE: Article

SOURCE: Scopus

22.31 Vyas, S., Ali, M.E., Hossain, E., Patwardhan, S., Datta, S.N.

Theoretical investigation of intramolecular magnetic interaction through an ethylenic coupler

(2005) Journal of Physical Chemistry A, 109 (19), pp. 4213-4215. Cited 3 times.

<http://www.scopus.com/inward/record.url?eid=2-s2.0-19944377206&partnerID=40&md5=25488d0dcffd99df1403d8836426a700>

DOCUMENT TYPE: Article

SOURCE: Scopus

22.32 Matsuda, K.

Photoswitching of intramolecular magnetic interaction using diarylethene photochromic spin couplers

(2005) Bulletin of the Chemical Society of Japan, 78 (3), pp. 383-392. Cited 8 times.

<http://www.scopus.com/inward/record.url?eid=2-s2.0-16844367373&partnerID=40&md5=fa9fca4928e63f6dec3e9f767869df04>

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**

Factor ISI: 1.764

4x10x1.764=70.56

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.

<http://www.scopus.com/inward/record.url?eid=2-s2.0-62649086122&partnerID=40&md5=3c4c2e1c94871170a50d184f077b33ae>

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.

<http://www.scopus.com/inward/record.url?eid=2-s2.0-37349086447&partnerID=40&md5=09f80cbbef54cb03983f36837b0c7b9>

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.

<http://www.scopus.com/inward/record.url?eid=2-s2.0-38549162808&partnerID=40&md5=a4920c5b067cb6fc1d062490ff7813b7>

DOCUMENT TYPE: Conference Paper

SOURCE: Scopus

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.

<http://www.scopus.com/inward/record.url?eid=2-s2.0-33748444710&partnerID=40&md5=6b516f0095657902c2ac6eb10e2e8afb>

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 : $3 \times 40 / 1 = 120$**

- **îndrumare lucrări disertație** (număr lucrări susținute)

- total lucrări disertație 18, **punctaj: $4 \times 18 / 1 = 72$**

- **doctoranzi**

- lista nominală a doctoranzilor înmatriculați, **punctaj: $6 \times 13 = 78$**

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: $10 \times 2 = 20$**

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 întarite 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 sera folosind catalizatori metalici suportati. Tehnologie de obtinere, preparare si caracterizare fizico-chimica – REGES, Responsabil partener Institutul National de Cercetare Dezvoltare pentru Tehnologii Izotopice si 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 structurala si electronica a catalizatorilor metalici suportati cu aplicatii directe in protectia mediului – TOCSEM Responsabil partener Institutul National de Cercetare Dezvoltare pentru Tehnologii Izotopice si 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 structura si dinamica moleculara asupra unor combinatii complexe de interes biomedical , 52.325 RON.

Punctaj: 52.325/10000=5.23

5. 1.CEEX-Viasan/ 166/2006 Cercetari privind diagnosticare si 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 enzimatiche. 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+845.08=1826.316

Data: 16.03.2010

Certific validarea datelor prezentate

Semnătura,

Sef de catedră,
Prof. dr. Leontin David