

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

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

**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 <sup>+</sup> : | 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 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+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**

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

**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 WO<sub>3</sub> – PbO – P<sub>2</sub>O<sub>5</sub> 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<sup>+</sup>**

**Total 3.883**

1. **David Leontin**, Mogonea Lavinia, Hauer Ioan, Cozar Ionut-Bogdan, Marcu Anca Oana, *Spectroscopic investigation of some UO<sub>2</sub><sup>+</sup>-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 [PFeW<sub>11</sub>O<sub>39</sub>]<sup>4-</sup> polyoxoanion supported on modified amorphous silica gel and its electrocatalytic activity for H<sub>2</sub>O<sub>2</sub> 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.

[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-](http://www.scopus.com/inward/record.url?eid=2-s2.0-45249123016&partnerID=40&md5=0fd8d02f23ab29b329ea6eea19054ac3)

[45249123016&partnerID=40&md5=0fd8d02f23ab29b329ea6eea19054ac3](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/H<sub>2</sub>O<sub>2</sub>-induced bovine serum albumin nitration and oxidation

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

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

[47049099950&partnerID=40&md5=4b32984c9e362fcc50ac76359df96e0a](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-](http://www.scopus.com/inward/record.url?eid=2-s2.0-41549125829&partnerID=40&md5=1016eccc2329fe0502c9b2ecb30d57a9)

[41549125829&partnerID=40&md5=1016eccc2329fe0502c9b2ecb30d57a9](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-](http://www.scopus.com/inward/record.url?eid=2-s2.0-42649142931&partnerID=40&md5=87db3cf8d1dccc14dcda538d73aee6d)

[42649142931&partnerID=40&md5=87db3cf8d1dccc14dcda538d73aee6d](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-](http://www.scopus.com/inward/record.url?eid=2-s2.0-36849062575&partnerID=40&md5=ef4a582c0795221732364b8f127a81e5)

[36849062575&partnerID=40&md5=ef4a582c0795221732364b8f127a81e5](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**

**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

**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.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-33747586321&partnerID=40&md5=a5d97418234d6bafea7a1a1125b38772)

[33747586321&partnerID=40&md5=a5d97418234d6bafea7a1a1125b38772](http://www.scopus.com/inward/record.url?eid=2-s2.0-33747586321&partnerID=40&md5=a5d97418234d6bafea7a1a1125b38772)

Document Type: Article

Source: Scopus

**5. Chis V., Pirnau A., Jurca T., Vasilescu M., Simon S., Cozar O., David L. Experimental and DFT study of pyrazinamide 2005, Chemical Physics, (1-3) 153-163**

**5.1** Hazarika, K.K., Baruah, N.C., Deka, R.C.

Molecular structure and reactivity of antituberculosis drug molecules isoniazid, pyrazinamide, and 2-methylheptylisonicotinate: A density functional approach

(2009) Structural Chemistry, 20 (6), pp. 1079-1085.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-70450275823&partnerID=40&md5=3b6912e4761b8417b8cc2f22279250a5)

[70450275823&partnerID=40&md5=3b6912e4761b8417b8cc2f22279250a5](http://www.scopus.com/inward/record.url?eid=2-s2.0-70450275823&partnerID=40&md5=3b6912e4761b8417b8cc2f22279250a5)

Document Type: Article

Source: Scopus

**5.2** Feki, H., Ahmed, A.B., Fourati, N., Abid, Y., Minot, C.

Theoretical studies of molecular structure and vibrational spectra of the asymmetric squaraine [(2-dimethylamino-4-anilino) squaraine]

(2009) Journal of Molecular Structure: THEOCHEM, 895 (1-3), pp. 21-25.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-58249132847&partnerID=40&md5=ee2826b097cbbdcfe46e5d9c6f9abda3)

[58249132847&partnerID=40&md5=ee2826b097cbbdcfe46e5d9c6f9abda3](http://www.scopus.com/inward/record.url?eid=2-s2.0-58249132847&partnerID=40&md5=ee2826b097cbbdcfe46e5d9c6f9abda3)

Document Type: Article

Source: Scopus

**5.3** Tiwary, A.S., Sengupta, P.S., Mukherjee, A.K.

Modeling the ground state geometry and estimating the charge transfer transition energy of the toluene-ICL molecular complex by ab initio and DFT methods

(2008) Journal of Theoretical and Computational Chemistry, 7 (3), pp. 331-346. Cited 1 time.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-46049086002&partnerID=40&md5=5ba9c601c534e4873b9a7cdce97fc2c4)

[46049086002&partnerID=40&md5=5ba9c601c534e4873b9a7cdce97fc2c4](http://www.scopus.com/inward/record.url?eid=2-s2.0-46049086002&partnerID=40&md5=5ba9c601c534e4873b9a7cdce97fc2c4)

Document Type: Article

Source: Scopus

**5.4** Hatzipanayioti, D., Tzeferakos, G., Petropoulos, P.

DFT and experimental investigation of catechol derivatives of benzoic acid and pyridine

(2008) Chemical Physics, 345 (1), pp. 119-129. Cited 3 times.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-40849083380&partnerID=40&md5=eee9ef809359051a9622335ca790a56d)

[40849083380&partnerID=40&md5=eee9ef809359051a9622335ca790a56d](http://www.scopus.com/inward/record.url?eid=2-s2.0-40849083380&partnerID=40&md5=eee9ef809359051a9622335ca790a56d)

Document Type: Article

Source: Scopus

**5.5** Yilmaz, A., Bolukbasi, O., Bakiler, M.

An experimental and theoretical vibrational spectra of isoniazide

(2008) Journal of Molecular Structure, 872 (2-3), pp. 182-189. Cited 3 times.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-36148974315&partnerID=40&md5=12e4f3e1fe59560af12eb419707f04c0)

[36148974315&partnerID=40&md5=12e4f3e1fe59560af12eb419707f04c0](http://www.scopus.com/inward/record.url?eid=2-s2.0-36148974315&partnerID=40&md5=12e4f3e1fe59560af12eb419707f04c0)

Document Type: Article

Source: Scopus

**5.6** Favila, A., Gallo, M., Glossman-Mitnik, D.

CHIH-DFT determination of the molecular structure infrared spectra, UV spectra and chemical reactivity of three antitubercular compounds: Rifampicin, isoniazid and pyrazinamide

(2007) Journal of Molecular Modeling, 13 (4), pp. 505-518. Cited 7 times.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-33947109543&partnerID=40&md5=73f40a0cf33da9129f8af4ef7ee0b66f)

[33947109543&partnerID=40&md5=73f40a0cf33da9129f8af4ef7ee0b66f](http://www.scopus.com/inward/record.url?eid=2-s2.0-33947109543&partnerID=40&md5=73f40a0cf33da9129f8af4ef7ee0b66f)

Document Type: Article

Source: Scopus

**5.7** Hatzipanayioti, D., Karaliota, A., Kamariotaki, M., Aletras, V., Petropouleas, P. Theoretical and spectroscopic investigation of the oxidation and degradation of protocatechuic acid

(2006) Chemical Physics, 325 (2-3), pp. 341-350. Cited 6 times.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-33745069874&partnerID=40&md5=8a5c1d5bf9ec81043ceaac65c8599e5a)

[33745069874&partnerID=40&md5=8a5c1d5bf9ec81043ceaac65c8599e5a](http://www.scopus.com/inward/record.url?eid=2-s2.0-33745069874&partnerID=40&md5=8a5c1d5bf9ec81043ceaac65c8599e5a)

Document Type: Article

Source: Scopus

**5.8** Thirumoorthy, K., Nandi, N. Comparison of the intermolecular energy surfaces of amino acids: Orientation-dependent chiral discrimination

(2006) Journal of Physical Chemistry B, 110 (17), pp. 8840-8849. Cited 11 times.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-33744477096&partnerID=40&md5=33ade17f7372ad22963fdf3067e4efcb)

[33744477096&partnerID=40&md5=33ade17f7372ad22963fdf3067e4efcb](http://www.scopus.com/inward/record.url?eid=2-s2.0-33744477096&partnerID=40&md5=33ade17f7372ad22963fdf3067e4efcb)

Document Type: Article

Source: Scopus

**6. Batiu C., Jelic C., Leopold N., Cozar O., David L.**

**Spectroscopic investigations of new Cu(II), Co(II), Ni(II) complexes with  $\gamma$ -L-glutamyl amide as ligand**

**2005, Journal of Molecular Structure, (SPEC. ISS.) 325-330**

**6.1** Rusu, D., Stanila, A., Marian, I.O., Marian, C.O., Rusu, M., Lucaciu, R.

Synthesis and characterization of some cobalt (II) complexes with amino acids having biological activities

(2009) Revista de Chimie, 60 (9), pp. 939-943.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-71049169689&partnerID=40&md5=69636e59d2d3f760a87c5f6c09e9d478)

[71049169689&partnerID=40&md5=69636e59d2d3f760a87c5f6c09e9d478](http://www.scopus.com/inward/record.url?eid=2-s2.0-71049169689&partnerID=40&md5=69636e59d2d3f760a87c5f6c09e9d478)

Document Type: Article

Source: Scopus

**6.2.** 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

**7.** Craciun C., Rusu D., Pop-Fanea L., Hossu M., Rusu M., David L.

**Spectroscopic investigation of several uranium (IV) polyoxometalate complexes**

**2005, Journal of Radioanalytical and Nuclear Chemistry, (3) 589-594**

**7.1** Hussain, F., Ritchie, C., Gable, R.W., Moubaraki, B., Murray, K.S., Boskovic, C.

Tungstoarsenate(III) polyoxoanions as inorganic ligands for polynuclear copper complexes (2009) Polyhedron, 28 (9-10), pp. 2070-2074. Cited 2 times.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-66149173384&partnerID=40&md5=18d94583346a2da8b0f1846c2051a7c2)

[66149173384&partnerID=40&md5=18d94583346a2da8b0f1846c2051a7c2](http://www.scopus.com/inward/record.url?eid=2-s2.0-66149173384&partnerID=40&md5=18d94583346a2da8b0f1846c2051a7c2)

DOCUMENT TYPE: Article

SOURCE: Scopus

**8.** 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**

**2005, Journal of Thermal Analysis and Calorimetry, (1) 129-134**

**8.1** Li, X., Wu, Y., Gu, D., Gan, F.

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

(2009) Journal of Thermal Analysis and Calorimetry, 98 (2), pp. 387-394.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-70350423186&partnerID=40&md5=182682348b997354a84a019dc1666c68)

[70350423186&partnerID=40&md5=182682348b997354a84a019dc1666c68](http://www.scopus.com/inward/record.url?eid=2-s2.0-70350423186&partnerID=40&md5=182682348b997354a84a019dc1666c68)

DOCUMENT TYPE: Article

SOURCE: Scopus

**8.2** Li, X., Wu, Y., Gu, D., Gan, F.

Thermal decomposition kinetics of nickel(II) and cobalt(II) azo barbituric acid complexes (2009) Thermochimica Acta, 493 (1-2), pp. 85-89.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-67650729683&partnerID=40&md5=fc24db7bd00d4dcdde80aca4332fa058)

[67650729683&partnerID=40&md5=fc24db7bd00d4dcdde80aca4332fa058](http://www.scopus.com/inward/record.url?eid=2-s2.0-67650729683&partnerID=40&md5=fc24db7bd00d4dcdde80aca4332fa058)

DOCUMENT TYPE: Article

SOURCE: Scopus

**8.3** Leovac, V.M., Petković, R., Kovács, A., Pokol, G., Szécsényi, K.M.  
Reactions of divalent transition metal halides with 3,5-dimethyl-1- (hydroxymethyl)-  
pyrazole: Part 23. Transition metal complexes with pyrazole-based ligands  
(2007) Journal of Thermal Analysis and Calorimetry, 89 (1), pp. 267-275. Cited 5 times.  
<http://www.scopus.com/inward/record.url?eid=2-s2.0-36148957892&partnerID=40&md5=3d4c03be0b6fc5d5cd0279df9d6e5d71>

DOCUMENT TYPE: Conference Paper

SOURCE: Scopus

**8.4** Panea, I., Pelea, M., Silberg, I.A.  
Azocoupling products VI.11Part V, see reference [32]. The sensitivity to external factors  
of the UV-vis absorption spectra of the azocoupling product between 1-(4-hydroxy-6-  
methyl-pyrimidin-2-yl)-3-methylpyrazolin-5-one and 4-(N,N-dimethyl)  
aminobenzenediazonium salt  
(2007) Dyes and Pigments, 74 (1), pp. 113-122. Cited 2 times.  
<http://www.scopus.com/inward/record.url?eid=2-s2.0-33751249924&partnerID=40&md5=3b820f1bee832281fe677606e74e0028>

DOCUMENT TYPE: Article

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  
(2006) Journal of Thermal Analysis and Calorimetry, 85 (2), pp. 289-293. Cited 5 times.  
<http://www.scopus.com/inward/record.url?eid=2-s2.0-33748582636&partnerID=40&md5=62cf416a70e8f676ef516a2470d08a81>

DOCUMENT TYPE: Conference Paper

SOURCE: Scopus

**8.6** Carp, O. The influence of the ligands on the thermal behaviour of solid coordination  
compounds (2006) Revue Roumaine de Chimie, 51 (6), pp. 479-489.  
<http://www.scopus.com/inward/record.url?eid=2-s2.0-33846011384&partnerID=40&md5=e520196b7066b6a21ef850ea72e56e6a>

Document Type: Review

Source: Scopus

### **3. Citări în perioada 2005-2009 ale articolelor anterioare anului 2005 103 citări, Total: 1030 pct.**

**1. Rusu D., David L., Craciun C., Pop-Fanea L., Hossu M., Rusu M.  
Tetranuclear Cu(II) cluster encapsulated in one arsenic(V) heteropolyoxotungstate.  
Spectroscopic and magnetic investigation  
2004, Acta Chimica Slovenica, (4) 629-640**

**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.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-33646514276&partnerID=40&md5=a21f8e6bc9e6d1142d2261841863cad8)

[33646514276&partnerID=40&md5=a21f8e6bc9e6d1142d2261841863cad8](http://www.scopus.com/inward/record.url?eid=2-s2.0-33646514276&partnerID=40&md5=a21f8e6bc9e6d1142d2261841863cad8)

DOCUMENT TYPE: Article

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**

#### **2.1 Liu, H., Liu, Y., Liu, H., Shi, C., Liu, F., Liu, H.**

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.

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

[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

#### **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

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

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

[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

#### **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

(2008) *Journal of Molecular Structure*, 878 (1-3), pp. 124-130. Cited 3 times.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-41549110620&partnerID=40&md5=79f3f9e5196b0be5ea7f4367d398b818)

[41549110620&partnerID=40&md5=79f3f9e5196b0be5ea7f4367d398b818](http://www.scopus.com/inward/record.url?eid=2-s2.0-41549110620&partnerID=40&md5=79f3f9e5196b0be5ea7f4367d398b818)

DOCUMENT TYPE: Article

SOURCE: Scopus

## **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**

#### **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  
(2009) Zeitschrift fur Naturforschung - Section B Journal of Chemical Sciences, 64 (7), pp. 821-825.

<http://www.scopus.com/inward/record.url?eid=2-s2.0-67849118715&partnerID=40&md5=3d349ec308c020399b3238c792dcfcdb>

DOCUMENT TYPE: Article

SOURCE: Scopus

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

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.

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

DOCUMENT TYPE: Article

SOURCE: Scopus

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

A new sandwich polyoxometalate constructed from a Zn<sub>6</sub> 12+ hexagon cluster sandwiched by two B- $\alpha$ -[BiW<sub>9</sub>O<sub>33</sub>]<sup>9-</sup>

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

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

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.

<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.

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

DOCUMENT TYPE: Article

SOURCE: Scopus

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

A novel polyoxotungstate [Ni<sub>4</sub>(H<sub>2</sub>O)<sub>2</sub>( $\alpha$ -NiW<sub>9</sub>O<sub>34</sub>)<sub>2</sub>]<sup>16-</sup> based on an old structure with a new component

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

<http://www.scopus.com/inward/record.url?eid=2-s2.0-34247506393&partnerID=40&md5=f29f11d0934a12e1c6e1201a65cfb6de>



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.

[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

**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  
{[Na(H<sub>2</sub>O)<sub>2</sub>]<sub>3</sub>[Ni(C<sub>5</sub>H<sub>5</sub>N)]<sub>3</sub>(AsW<sub>9</sub>O<sub>33</sub>)<sub>2</sub>}<sup>9-</sup>  
(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**

**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 keggin germanomolybdate fragments

(2009) *Inorganic Chemistry*, 48 (20), pp. 9819-9830.

[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 [Na(UO<sub>2</sub>)<sub>2</sub>(H<sub>2</sub>O)<sub>4</sub>(BiW<sub>9</sub>O<sub>33</sub>)<sub>2</sub>]<sub>13</sub>-

(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)

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

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: [Co<sub>2</sub>(H<sub>2</sub>O)<sub>10</sub>Co<sub>4</sub>(H<sub>2</sub>O)<sub>2</sub>(B- $\alpha$ -XW<sub>9</sub>O<sub>34</sub>)<sub>2</sub>]<sub>8</sub>- (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.

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

[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: [(A- $\alpha$ -SiW<sub>9</sub>O<sub>33</sub>)<sub>2</sub>K{UO<sub>2</sub>(H<sub>2</sub>O)}<sub>2</sub>]<sub>11</sub>-

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

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

[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  $\alpha$ -Keggin Tungstogermanate: ( $[\alpha$ -GeFe<sub>2</sub>W<sub>10</sub>O<sub>38</sub>(OH)]<sub>2</sub>)<sub>14</sub>-

(2007) *Journal of Cluster Science*, 18 (1), pp. 205-216. Cited 3 times.

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

[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: K<sub>13</sub>[{Co(H<sub>2</sub>O)}( $\mu$ -H<sub>2</sub>O)<sub>2</sub>K(Ge<sub>2</sub>W<sub>18</sub>O<sub>66</sub>)]

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

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

[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**

**5.1** Bi, L.-H., Al-Kadamany, G., Chubarova, E.V., Dickman, M.H., Chen, L., Gopala, D.S., Richards, R.M., Kelta, B., Nadjo, 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.

<http://www.scopus.com/inward/record.url?eid=2-s2.0-70350455766&partnerID=40&md5=6d91baefbd320592cda01344d73983c5>

DOCUMENT TYPE: Article

SOURCE: Scopus

**5.2** Liu, H., Liu, Y., Liu, H., Shi, C., Liu, F., Liu, H.

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.

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

DOCUMENT TYPE: Article

SOURCE: Scopus

SOURCE: Scopus

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

A new sandwich polyoxometalate constructed from a Zn<sub>6</sub> 12+ hexagon cluster sandwiched by two B- $\alpha$ -[BiW<sub>9</sub>O<sub>33</sub>]<sup>9-</sup>

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

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

DOCUMENT TYPE: Article

SOURCE: Scopus

SOURCE: Scopus

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

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

<http://www.scopus.com/inward/record.url?eid=2-s2.0-44349093752&partnerID=40&md5=e4d33a48e7073bd70c08ee978dd3f421>

DOCUMENT TYPE: Article

SOURCE: Scopus

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)  $\beta$ -diketonate complexes 2001, *Journal of Molecular Structure*, 573-578**

**6.1** Prasad, R.L., Kushwaha, A., Gautam, B.P.S.

Mixed ligand complexes of  $\beta$ -diketonates: Synthesis, characterization, and FAB mass spectral analysis

(2009) *Journal of Coordination Chemistry*, 62 (18), pp. 2983-2994.

<http://www.scopus.com/inward/record.url?eid=2-s2.0-69949102073&partnerID=40&md5=8da17c2aee8a704ee3af316187b07546>

DOCUMENT TYPE: Article

SOURCE: Scopus

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.

<http://www.scopus.com/inward/record.url?eid=2-s2.0-70349854760&partnerID=40&md5=80cdc15ae8ee09da86a6da9f9412468d>

DOCUMENT TYPE: Article

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]

(2006) *Quimica Nova*, 29 (6), pp. 1187-1192.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-33845719135&partnerID=40&md5=da7fac847fc82e6499bee2f9fe35676e)

[33845719135&partnerID=40&md5=da7fac847fc82e6499bee2f9fe35676e](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- $\kappa$ N)(salicylaldehyde 4-nitrobenzoyl-hydrazone- $\kappa$ 3O,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-](http://www.scopus.com/inward/record.url?eid=2-s2.0-32244449182&partnerID=40&md5=5753d6353425b84c5b1fb66b34490832)

[32244449182&partnerID=40&md5=5753d6353425b84c5b1fb66b34490832](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**

**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.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-64749084663&partnerID=40&md5=0db21ebd0b78853223d0c5c41dc92b0d)

[64749084663&partnerID=40&md5=0db21ebd0b78853223d0c5c41dc92b0d](http://www.scopus.com/inward/record.url?eid=2-s2.0-64749084663&partnerID=40&md5=0db21ebd0b78853223d0c5c41dc92b0d)

DOCUMENT TYPE: Article

SOURCE: Scopus

**7.2** Som, T., Karmakar, B.

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

(2008) *Journal of Luminescence*, 128 (12), pp. 1989-1996. Cited 5 times.

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

[51549117480&partnerID=40&md5=465cf7f69a180b58e5b60793292ed846](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  $(\text{H}_2\text{NCH}_2\text{CH}_2\text{NH}_2)_3 \{(\text{VO})_6 [\text{B}_{10}\text{O}_{16}(\text{OH})_6]_2\} \cdot 11\text{H}_2\text{O}$

(2008) *Journal of Chemical Crystallography*, 38 (5), pp. 321-325.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-41849110516&partnerID=40&md5=d0e62801bec562f9fe2072bd65728074)

[41849110516&partnerID=40&md5=d0e62801bec562f9fe2072bd65728074](http://www.scopus.com/inward/record.url?eid=2-s2.0-41849110516&partnerID=40&md5=d0e62801bec562f9fe2072bd65728074)

DOCUMENT TYPE: Article

SOURCE: Scopus

**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<sub>2</sub>O<sub>5</sub>

(2008) *Materials Chemistry and Physics*, 107 (2-3), pp. 236-243.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-36849092801&partnerID=40&md5=9b2633a5bf5912ee853e813e8729d86b)

[36849092801&partnerID=40&md5=9b2633a5bf5912ee853e813e8729d86b](http://www.scopus.com/inward/record.url?eid=2-s2.0-36849092801&partnerID=40&md5=9b2633a5bf5912ee853e813e8729d86b)

DOCUMENT TYPE: Article

SOURCE: Scopus

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

Effect of V<sub>2</sub>O<sub>5</sub> on structure and electrical properties of zinc borate glasses

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

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-33845703549&partnerID=40&md5=b759ea6ef1f6e8fb6a79f5aff921b1cb)

[33845703549&partnerID=40&md5=b759ea6ef1f6e8fb6a79f5aff921b1cb](http://www.scopus.com/inward/record.url?eid=2-s2.0-33845703549&partnerID=40&md5=b759ea6ef1f6e8fb6a79f5aff921b1cb)

DOCUMENT TYPE: Article

SOURCE: Scopus

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

Structural, optical, physical and electrical properties of V<sub>2</sub>O<sub>5</sub>·SrO·B<sub>2</sub>O<sub>3</sub> glasses

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

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-33645975850&partnerID=40&md5=601ca50f5749376868b12b9a49a07356)

[33645975850&partnerID=40&md5=601ca50f5749376868b12b9a49a07356](http://www.scopus.com/inward/record.url?eid=2-s2.0-33645975850&partnerID=40&md5=601ca50f5749376868b12b9a49a07356)

DOCUMENT TYPE: Article

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 xNa<sub>2</sub>O-(30 - X)K<sub>2</sub>O-60B<sub>2</sub>O<sub>3</sub> glasses - An EPR and optical study

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

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

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

DOCUMENT TYPE: Article

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.

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

[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**

**K<sub>8</sub>[P<sub>2</sub>VMoW<sub>16</sub>O<sub>62</sub>]·31H<sub>2</sub>O heteropolyoxometalate**

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

**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

(2009) *Studia Universitatis Babeş-Bolyai Chemia*, 4 (1), pp. 95-105.

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

[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<sub>n</sub>O<sub>40</sub>](3 + n)- (n = 0-3)

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

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

[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**

**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 V<sup>4+</sup> ions in soda-phosphate glasses**

**1999, *Applied Magnetic Resonance*, (4) 529-537**

**10.1** Ardelean, I., Cozar, O., Vedeanu, N., Rusu, D., Andronache, C.

EPR study of V<sub>2</sub>O<sub>5</sub>-P<sub>2</sub>O<sub>5</sub>-Li<sub>2</sub>O glass system

(2007) *Journal of Materials Science: Materials in Electronics*, 18 (9), pp. 963-966. Cited 1 time.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-34347344086&partnerID=40&md5=272374d6249e31c8c74d2b803ad59f32)

[34347344086&partnerID=40&md5=272374d6249e31c8c74d2b803ad59f32](http://www.scopus.com/inward/record.url?eid=2-s2.0-34347344086&partnerID=40&md5=272374d6249e31c8c74d2b803ad59f32)

DOCUMENT TYPE: Article

SOURCE: Scopus

**10.2** Vedeanu, N., Cozar, O., Ardelean, I.

IR and EPR investigations of v<sub>2</sub>O<sub>5</sub> - P<sub>2</sub>O<sub>5</sub> - CaF<sub>2</sub> glass system

(2007) *Journal of Optoelectronics and Advanced Materials*, 9 (3), pp. 698-701. Cited 1 time.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-38549114051&partnerID=40&md5=567ff8060b3f0739e3bfa3e36c590aac)

[38549114051&partnerID=40&md5=567ff8060b3f0739e3bfa3e36c590aac](http://www.scopus.com/inward/record.url?eid=2-s2.0-38549114051&partnerID=40&md5=567ff8060b3f0739e3bfa3e36c590aac)

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

[33745956789&partnerID=40&md5=95b45483dca17cc35ce3fdd4f90eeb54](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 Cu<sup>2+</sup> and V<sup>4+</sup> ions in phosphate glasses**

**1999, *Applied Magnetic Resonance*, (4) 473-480**

**11.1** Vedeanu, N., Cozar, O., Ardelean, I., Lendl, B.

IR and Raman investigation of x(CuO·V<sub>2</sub>O<sub>5</sub>)(1-x) [P<sub>2</sub>O<sub>5</sub>·CaF<sub>2</sub>] 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-](http://www.scopus.com/inward/record.url?eid=2-s2.0-33645998153&partnerID=40&md5=a422db902696eb912ee19f4bfe7385ce)

[33645998153&partnerID=40&md5=a422db902696eb912ee19f4bfe7385ce](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**

**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-](http://www.scopus.com/inward/record.url?eid=2-s2.0-36648998720&partnerID=40&md5=9691fb0f443369f13696f091ff95baac)

[36648998720&partnerID=40&md5=9691fb0f443369f13696f091ff95baac](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-](http://www.scopus.com/inward/record.url?eid=2-s2.0-34548449767&partnerID=40&md5=543ea7736f4a19062003fe2062cf1299)

[34548449767&partnerID=40&md5=543ea7736f4a19062003fe2062cf1299](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=1e3804902f68fa2aeba785bfcfb231f7>

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**

**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.

<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**

**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.

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

DOCUMENT TYPE: Article

SOURCE: Scopus

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-s2.0-31144439830&partnerID=40&md5=2cb61ebf28e6d4dda322c0c8dc0b0a27>

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

(2005) Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya, 31 (5), pp. 316-321. Cited 2 times.

<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 drugs adsorption on the Ag colloidal surface**  
**1999, *Journal of Molecular Structure*, 685-688**

**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.

<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.

<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.

<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**

**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.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-43749086723&partnerID=40&md5=630ce72eb6b5fe9beacaea0ccf0fee4)

[43749086723&partnerID=40&md5=630ce72eb6b5fe9beacaea0ccf0fee4](http://www.scopus.com/inward/record.url?eid=2-s2.0-43749086723&partnerID=40&md5=630ce72eb6b5fe9beacaea0ccf0fee4)

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.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-33748079824&partnerID=40&md5=c7cfca52df82570bd43d20265ef64cc3)

[33748079824&partnerID=40&md5=c7cfca52df82570bd43d20265ef64cc3](http://www.scopus.com/inward/record.url?eid=2-s2.0-33748079824&partnerID=40&md5=c7cfca52df82570bd43d20265ef64cc3)

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**

**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.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-68149169565&partnerID=40&md5=be4991b6371016e9c917800c5d863701)

[68149169565&partnerID=40&md5=be4991b6371016e9c917800c5d863701](http://www.scopus.com/inward/record.url?eid=2-s2.0-68149169565&partnerID=40&md5=be4991b6371016e9c917800c5d863701)

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**

**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-](http://www.scopus.com/inward/record.url?eid=2-s2.0-65549109843&partnerID=40&md5=1cf068783d8d0509f7beaf2f88253538)

[65549109843&partnerID=40&md5=1cf068783d8d0509f7beaf2f88253538](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**

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

[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

**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.

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

[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**

**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.

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

[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**

**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-s2.0-76149106151&partnerID=40&md5=37248cba9b6c7018a65450602105cbb6>

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-s2.0-34249694159&partnerID=40&md5=735ad859f8eae9e38736a63a347e44be>

DOCUMENT TYPE: Article

SOURCE: Scopus

**21.3** Bogani, L., Cavigli, L., Bernot, K., Sessoli, R., Gurioli, M., Gatteschi, D.  
Evidence of intermolecular  $\pi$ -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.

<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.

<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.

<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**

**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  
(2009) *Chinese Journal of Inorganic Chemistry*, 25 (12), pp. 2137-2142.

<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

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

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

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

$\{[\text{Zn}(\text{NIT4Py})(\text{fum})(\text{H}_2\text{O})_2] \cdot \text{H}_2\text{O}\}_n$

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

<http://www.scopus.com/inward/record.url?eid=2-s2.0-70349436900&partnerID=40&md5=faefca1d3beacf4cddc04da9b2d1766a>

DOCUMENT TYPE: Article

SOURCE: Scopus

SOURCE: Scopus

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

Electronic structure and magnetic properties of potassium ozonide KO<sub>3</sub>

(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

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 (2009) *Physical Chemistry Chemical Physics*, 11 (20), pp. 3854-3860. Cited 2 times.

<http://www.scopus.com/inward/record.url?eid=2-s2.0-65649148222&partnerID=40&md5=4f5f7dc391a742e5720c89741baa0af9>

DOCUMENT TYPE: Article

SOURCE: Scopus

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

(2009) *European Journal of Organic Chemistry*, (15), pp. 2548-2561.

<http://www.scopus.com/inward/record.url?eid=2-s2.0-66149098171&partnerID=40&md5=9dcc351cb8bbd59e6dadcd0f0c32893e>

DOCUMENT TYPE: Article

SOURCE: Scopus

SOURCE: Scopus

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

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

(2009) *Journal of Chemical Physics*, 130 (9), art. no. 094306, .

<http://www.scopus.com/inward/record.url?eid=2-s2.0-62249160767&partnerID=40&md5=35dbf0cbf21a84f61bee7fc5097f5ff2>

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.

<http://www.scopus.com/inward/record.url?eid=2-s2.0-55249110425&partnerID=40&md5=e99a3431320c111aa4ba263f34237609>

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.

<http://www.scopus.com/inward/record.url?eid=2-s2.0-53249090353&partnerID=40&md5=5c68c5d99c36b9ab7b1b2cfc111ac63b>

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.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-43149094216&partnerID=40&md5=c131cd908da69353f43fbdc61c4af06a)

[43149094216&partnerID=40&md5=c131cd908da69353f43fbdc61c4af06a](http://www.scopus.com/inward/record.url?eid=2-s2.0-43149094216&partnerID=40&md5=c131cd908da69353f43fbdc61c4af06a)

DOCUMENT TYPE: Article

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

(2007) *Inorganic Chemistry*, 46 (26), pp. 11405-11415. Cited 7 times.

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

[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.

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

[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.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-35348860149&partnerID=40&md5=dcf860d6b7956c04ce76e986f5eb71)

[35348860149&partnerID=40&md5=dcf860d6b7956c04ce76e986f5eb71](http://www.scopus.com/inward/record.url?eid=2-s2.0-35348860149&partnerID=40&md5=dcf860d6b7956c04ce76e986f5eb71)

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.

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

[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.

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

34249649670&partnerID=40&md5=8df34294048a70beca658a1843083116

DOCUMENT TYPE: Article

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.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-34249651382&partnerID=40&md5=b073b4a791b8fa57b384b89497a63f23)

34249651382&partnerID=40&md5=b073b4a791b8fa57b384b89497a63f23

DOCUMENT TYPE: Article

SOURCE: Scopus

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

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

(2007) Polyhedron, 26 (9-11), pp. 1885-1889. Cited 1 time.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-34249706403&partnerID=40&md5=6b92511eb68fef7f2aa7da7c72ffe1cc)

34249706403&partnerID=40&md5=6b92511eb68fef7f2aa7da7c72ffe1cc

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.

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

33845401649&partnerID=40&md5=50787427667db034e360e7faa1358a07

DOCUMENT TYPE: Article

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.

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

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

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.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-33750369421&partnerID=40&md5=fbff194d5ce048b38fb31bdf6b27e1d6)

[33750369421&partnerID=40&md5=fbff194d5ce048b38fb31bdf6b27e1d6](http://www.scopus.com/inward/record.url?eid=2-s2.0-33750369421&partnerID=40&md5=fbff194d5ce048b38fb31bdf6b27e1d6)

DOCUMENT TYPE: Article

SOURCE: Scopus

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

2D and 3D  $\text{Cu}(\text{hfac})_2$  complexes with nitronyl nitroxide biradicals

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

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-33646427741&partnerID=40&md5=3507d944796f230201b3dd0830b60095)

[33646427741&partnerID=40&md5=3507d944796f230201b3dd0830b60095](http://www.scopus.com/inward/record.url?eid=2-s2.0-33646427741&partnerID=40&md5=3507d944796f230201b3dd0830b60095)

DOCUMENT TYPE: Article

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.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-33644930303&partnerID=40&md5=c1720eda498d3a2790c7a357a37f3c80)

[33644930303&partnerID=40&md5=c1720eda498d3a2790c7a357a37f3c80](http://www.scopus.com/inward/record.url?eid=2-s2.0-33644930303&partnerID=40&md5=c1720eda498d3a2790c7a357a37f3c80)

DOCUMENT TYPE: Article

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

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

DOCUMENT TYPE: Review

SOURCE: Scopus

**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  $\text{MxCu}_1 - \text{X}(\text{hfac})_2\text{L}$  ( $\text{M} = \text{Mn}, \text{Ni}, \text{Co}$ ;  $\text{L} = \text{nitronyl nitroxide}$ )

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

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-27644439564&partnerID=40&md5=64faf96c81becd30fa0fbcf63b27b1b4)

[27644439564&partnerID=40&md5=64faf96c81becd30fa0fbcf63b27b1b4](http://www.scopus.com/inward/record.url?eid=2-s2.0-27644439564&partnerID=40&md5=64faf96c81becd30fa0fbcf63b27b1b4)

DOCUMENT TYPE: Conference Paper

SOURCE: Scopus

**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.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-24644482737&partnerID=40&md5=c1ec39170756725af750b133bab70930)

[24644482737&partnerID=40&md5=c1ec39170756725af750b133bab70930](http://www.scopus.com/inward/record.url?eid=2-s2.0-24644482737&partnerID=40&md5=c1ec39170756725af750b133bab70930)

DOCUMENT TYPE: Conference Paper

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.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-22944450317&partnerID=40&md5=b890e702dd432ee4ba545af87c9e8fae)

[22944450317&partnerID=40&md5=b890e702dd432ee4ba545af87c9e8fae](http://www.scopus.com/inward/record.url?eid=2-s2.0-22944450317&partnerID=40&md5=b890e702dd432ee4ba545af87c9e8fae)

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

[19944377206&partnerID=40&md5=25488d0dcffd99df1403d8836426a700](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-](http://www.scopus.com/inward/record.url?eid=2-s2.0-16844367373&partnerID=40&md5=fa9fca4928e63f6dec3e9f767869df04)

[16844367373&partnerID=40&md5=fa9fca4928e63f6dec3e9f767869df04](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 Mo<sup>5+</sup> 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 Mo<sup>5+</sup> 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-](http://www.scopus.com/inward/record.url?eid=2-s2.0-62649086122&partnerID=40&md5=3c4c2e1c94871170a50d184f077b33ae)

[62649086122&partnerID=40&md5=3c4c2e1c94871170a50d184f077b33ae](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-](http://www.scopus.com/inward/record.url?eid=2-s2.0-37349086447&partnerID=40&md5=09f80cbbef54cb03983f36837b0c7b9)

[37349086447&partnerID=40&md5=09f80cbbef54cb03983f36837b0c7b9](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-](http://www.scopus.com/inward/record.url?eid=2-s2.0-38549162808&partnerID=40&md5=a4920c5b067cb6fc1d062490ff7813b7)

[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

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

[33748444710&partnerID=40&md5=6b516f0095657902c2ac6eb10e2e8afb](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: 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

Semnătura,

**Certific validarea datelor prezentate**

Sef de catedră,  
Prof. dr. Leontin David