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Homepage:

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| **$BeI_2$**<br>$BeI_2$ | **Beryllium diiodide**<br>Structure by GED/MS and QC (CCSD(T))<br>*S. A. Shlykov, Yu. A. Zhabanov, A. V. Zakharov, G. V. Girichev, N. I. Giricheva*<br>Manuscript in preparation |
| **$Br_3Lu$**<br>$LuBr_3$ | **Lutetium tribromide**<br>Structure by GED/MS and QC<br>*N. I. Giricheva, S. A. Shlykov, G. V. Girichev, E. V. Chernova and E. Lapykina*<br>Zh. Strukt. Khim. **50**(2) (2009) 243-250 |
| **$Br_3Y$**<br>$YBr_3$ | **Yttrium tribromide**<br>Structure by GED/MS and QC<br>*N. I. Giricheva, S. A. Shlykov, G. V. Girichev, H. Oberhammer*<br>Manuscript in preparation |
| **$Br_3Yb$**<br>$YbBr_3$ | **Ytterbium tribromide**<br>Structure by GED/MS and QC<br>*N. I. Giricheva, S. A. Shlykov, G. V. Girichev, H. Oberhammer, A. V. Bardina, S. N. Ivanov, K. S. Krasnov*<br>Manuscript in preparation |
| **$Br_4La^-$**<br>$LaBr_4^-$ | **Lanthanum tetrabromide anion**<br>Mass-spectrometric study of vapors and structure by DFT calculation<br>*M. F. Butman, V. V. Sliznev, L S. Kudin, D. A. Ivanov, V. B. Motalov, K. V. Cramer*<br>Zh. Fiz. Khim. **82**(5) (2008) 885-890 |
| **$CCl_4$** | **Carbon tetrachloride**<br>Structure by GED and CCSD(T) calculations<br>*A. V. Zakharov, Yu. A. Zhabanov*<br>J. Mol. Struct., accepted |
| **$CN_2OS_2$**<br>$S_2N_2OC$ | **5-Oxo-1,3,2,4-dithiadiazole (Roesky's ketone)**<br>Rotational spectrum, rotational constants<br>*F. Blockhuys, K. Tersago, S. A. Shlykov, A. Konrad, D. Christen*<br>J. Mol. Struct, accepted |
| **$C_4Br_4S$**<br>$C_4Br_4S$ | **Tetrabromothiophene**<br>Structure by GED/MS and QC<br>*S. A. Shlykov, F. Blockhuys, Yu. Zhabanov*<br>Proc. IV All-Russ. School Quant. Chem., Ivanovo, (2009) 288-291 |
| **$C_4Br_4Se$**<br>$C_4Br_4Se$ | **Tetrabromoselenophene**<br>Structure by GED/MS and QC<br>*S. A. Shlykov, F. Blockhuys, Yu. Zhabanov*<br>Proc. IV All-Russ. School Quant. Chem., Ivanovo, (2009) 288-291 |
| **$C_4H_3FN_2O_2$** | **5-Fluorouracil**<br>Structure by GED/MS and QC<br>*V. A. Naumov, S. A. Shlykov, A. V. Potanin*<br>Russ. J. Gen Chem. **79**(3) (2009) 475–481 |

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| **$C_4H_5ClO_2$**<br>$C_4H_5O_2Cl$ | **1-Chloro-1,3-butanedione**<br>Tautomeric and conformational properties by ab initio study<br>*N. V. Belova, H. Oberhammer, G. V. Girichev , S. A. Shlykov*<br>J. Phys. Chem. A. **112**(14) (2008) 3209-3214 |
| **$C_4H_5FO_2$**<br>$H_3C\text{-}C(O)\text{-}CH_2\text{-}C(O)\text{-}F$ | **Acetoacetyl fluoride**<br>Tautomeric and conformational properties by GED, IR(gas), Raman (liquid and solid), NMR spectroscopy and QC study; the geometric structure of the enol tautomer by GED and quantum chemical calculations in the gas phase and by X-ray in the crystal.<br>*N. V.Belova, H. Oberhammer, X. Zeng, M. Gerken, H. Willner, R. Berger, S.A. Hayes, and N. W. Mitzel*<br>Phys. Chem. Chem. Phys., submitted |
| **$C_5H_4FNO_4S$**<br>$C_5H_4SO_4NF$ | **2-Nitrobenzenesulfonyl fluoride**<br>Structure by GED/MS and QC<br>*V. M. Petrov, G. V. Girichev, H. Oberhammer, V. N. Petrova, N. I. Giricheva, A. V. Bardina, S. N. Ivanov*<br>J. Mol. Struct, accepted |
| **$C_6H_4ClNO_4S$**<br>$2\text{-}NO_2\text{-}C_6H_4\text{-}SO_2Cl$ | **2-Nitrobenzenesulfony chloride**<br>Structure by GED/MS and QC<br>*V. M. Petrov, H. Oberhammer, N. I. Giricheva, G. V. Girichev, V. N. Petrova, S. N. Ivanov*<br>Manuscript complete |
| **$C_6H_4ClNO_4S$**<br>$4\text{-}NO_2\text{-}C_6H_4\text{-}SO_2Cl$ | **4-Nitrobenzenesulfonyl chloride**<br>Structure by GED/MS and QC<br>*V. M.Petrov, V. N.Petrova, G. V.Girichev, N. I. Giricheva, H. Oberhammer,*<br>Zh. Strukt. Khim. **50**(5) (2009) 865-874 |
| **$C_6H_5NO_5S$**<br>$C_6H_5SO_5N$ | **3-Nitrobenzenesulfonic acid**<br>Structure by GED/MS and QC<br>*N. I. Giricheva, G. V. Girichev, Yu. S. Medvedeva, A. V. Bardina, V. M. Petrov, S. N. Ivanov*<br>Manuscript in preparation |
| **$C_6H_5NO_5S$**<br>$C_6H_5SO_5N$ | **2-Nitrobenzenesulfonic acid**<br>Structure by GED/MS and QC<br>*V. M. Petrov, N. I. Giricheva, V. N. Petrova, G. V. Girichev, S. N. Ivanov*<br>Zh. Strukt. Khim., submitted |
| **$C_6H_{13}FSi$**<br>$C_5H_{10}SiFCH_3$ | **1-Fluoro-1-methyl-1-silacyclohexane**<br>Structure and conformations by GED/MS, NMR and QC calculations<br>*S. Y. Wallevik, R. Bjornsson, A. Kvaran, S. Jonsdottir, G. V. Girichev, N. I. Giricheva, K. Hassler, I. Arnason*<br>J. Mol. Struct, accepted |
| **$C_7H_5F_3S$**<br>$C_6H_5SCF_3$ | **Trifluoromethylphenyl sulfide**<br>Structure by GED/MS and QC<br>*I. F. Shishkov, L. V. Khristenko, A. N. Rykov, L. V. Vilkov, N. I. Giricheva, S. A. Shlykov, G. V. Girichev, H. Oberhammer*<br>J. Mol. Struct. **876** (2008) 147–153 |
| **$C_7H_{13}F_3Si$**<br>$C_7H_{13}F_3Si$ | **1-Methyl-1-trifluormethyl-1-silacyclohexane**<br>Structure and conformations by GED/MS, NMR and QC calculations<br>*S. Y. Wallevik, R. Bjornsson, A. Kvaran, S. Jonsdottir, G. V. Girichev, N. I. Giricheva, K. Hassler, I. Arnason*<br>J. Mol. Struct, accepted |
| **$C_{10}Cl_{10}Fe$**<br>$C_{10}Cl_{10}Fe$ | **Decachloroferrocene**<br>Structure by GED/MS and QC calculations<br>*L. Phillips, M. K. Cooper, A. Haaland, S. Samdal, N. I. Giricheva, G. V. Girichev* |

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| | Dalton. Trans., submitted |
| **$C_{10}H_{14}O_4Zn$**<br>$ZnO_4C_{10}H_{14}$ | **Zinc acetylacetonate**<br>Structure by GED and DFT calculations; vibrational frequencies by DFT calculations<br>*E. V. Antina, N. V. Belova, M. B. Berezin, G. V. Girichev, N. I. Giricheva, A. V. Zakharov, A. A. Petrova, and S. A. Shlykov*<br>Zh. Strukt. Khim. **50**(6) (2009) 1084 – 1094 |
| **$C_{10}H_{18}Cu_2O_4$** | **Copper pivalate dimer**<br>Structure by GED/MS and QC<br>*G. V. Girichev, O. A. Pimenov, S. A. Shlykov, A. V. Zakharov*<br>Proc. IV All-Russ. School Quant. Chem., Ivanovo, (2009) 302-305 |
| **$C_{12}H_{18}CuN_2O_2$**<br>$C_{12}H_{18}N_2O_2Cu$ | **N,N'-Ethylene-bis(acetylacetoneiminato)copper(II)**<br>Structure and conformations by GED/MS and QC calculations<br>*G. V. Girichev, N. I. Giricheva, N. P. Kuzmina, Yu. S. Medvedeva, A.Yu. Rogachev*<br>Zh. Strukt. Khim. **49**(5) (2008) 871 – 882 |
| **$C_{12}H_{18}N_2NiO_2$**<br>$C_{12}H_{18}N_2O_2Ni$ | **N,N'-Ethylene-bis(acetylacetoneiminato)nickel(II)**<br>Structure and conformations by GED/MS and QC calculations<br>*G. V. Girichev, N. I. Giricheva, N. P. Kuzmina, Yu. S. Medvedeva, A.Yu. Rogachev*<br>Zh. Strukt. Khim. **49**(5) (2008) 871 – 882 |
| **$C_{12}H_{18}N_2O_2Zn$**<br>$ZnC_{12}H_{18}N_2O_2$ | **N,N'-Ethylene-bis(acetylacetoneiminato)zinc**<br>Structure by GED/MS and QC<br>*G. V. Girichev, N. I. Giricheva, E. D. Pelevina, N. V. Tverdova, N. P. Kuz'mina, O. V. Kotova*<br>Zh. Strukt. Khim. **51**(1) (2010) 29-37 |
| **$C_{12}H_{18}N_2O_2Zn$**<br>$ZnO_2N_2C_{12}H_{18}$ | **N,N'-Ethylene-bis(acetylacetoneiminato)zinc**<br>Structure by GED/MS and QC<br>*G. V. Girichev, N. I. Giricheva, E. D.Pelevina, N. V. Tverdova, N. P. Kuz'mina, O. V. Kotova,*<br>Zh. Strukt. Khim. **51**(1) (2010) 29-37 |
| **$C_{14}H_{16}N_2O_2Zn$**<br>$ZnC_{14}H_{16}N_2O_2$ | **N,N-Bis(salicylidene)ethylenediaminozinc**<br>Structure by GED/MS and QC<br>*G. V. Girichev, N. I. Giricheva, A. O. Symakov, N. V. Tverdova, N. P. Kuz'mina, O. V. Kotova*<br>Zh. Strukt. Khim. **51**(2) (2010) 38 – 46 |
| **$C_{15}H_3F_8O_6Sm$**<br>$SmC_{15}F_{18}O_6H_3$ | **Tris(hexafluoroacetylacetonato)samarium**<br>Structure by GED/MS and QC<br>*N. V. Tverdova, G. V. Girichev, S. A.Shlykov, V. V. Rybkin, N. P. Kuz'mina, O. V. Kotova*<br>Manuscript complete |
| **$C_{15}H_3F_{18}LaO_6$**<br>$LaC_{15}F_{18}O_6H_3$ | **Tris(hexafluoroacetylacetonato)lanthanum**<br>Structure by GED/MS and QC<br>*N. V. Tverdova, G. V. Girichev, S. A.Shlykov, V. V. Rybkin, N. P. Kuz'mina, O. V. Kotova*<br>Manuscript complete |
| **$C_{15}H_3F_{18}NdO_6$**<br>$NdC_{15}F_{18}O_6H_3$ | **Tris(hexafluoroacetylacetonato)neodymium**<br>Structure by GED/MS and QC<br>*N. V. Tverdova, G. V. Girichev, S. A.Shlykov, V. V. Rybkin, N. P. Kuz'mina, O. V. Kotova*<br>Manuscript complete |
| **$C_{15}H_{12}O_2$**<br>$C_6H_5$-C(O)-$CH_2$-C(O)-$C_6H_5$ | **Dibenzoylmethane**<br>Tautomeric and conformational properties by GED and QC study -<br>*N.V. Belova, H. Oberhammer, G. V. Girichev*<br>Manuscript complete |
| | **N,N-Bis(salicylidene)ethylenediaminocopper(II)** |

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| **$C_{16}H_{14}CuN_2O_2$**<br>$CuC_{16}H_{14}N_2O_2$ | Structure and conformations by GED/MS and QC calculations<br>*N. I. Giricheva, G. V. Girichev, N. P. Kuzmina, Yu. S. Medvedeva, A.Yu. Rogachev.*<br>Zh. Strukt. Khim. **50**(1) (2009) 58-65 |
| **$C_{16}H_{16}N_2O_2$**<br>$C_{16}H_{16}N_2O_2$ | **N,N-Bis(salicylidene)ethylenediamine**<br>Structure by DFT calculations<br>*V. V. Sliznev, G. V. Girichev*<br>Zh. Strukt. Khim. , submitted |
| **$C_{18}H_{18}N_2O_4Zn$**<br>$H_{18}C_{18}O_4N_2Zn$ | **N,N-Bis(3-methoxysalicylidene)ethylenediaminozinc**<br>Structure, IR spectra by QC<br>*N. V. Tverdova, G. V. Girichev, N. P. Kuzmina, O. V. Kotova*<br>Manuscript complete |
| **$C_{20}H_{14}CuN_2O_2$**<br>$CuH_{14}C_{20}O_2N_2$ | **N,N-(o-Phenylen)-bis(salicylidenediamino)copper**<br>Structure by GED/MS and QC<br>*G. V. Girichev, N. I. Giricheva, E. D. Pelevina, N. V. Tverdova, N. P. Kuz'mina, O. V. Kotova*<br>Manuscript in preparation |
| **$C_{20}H_{14}N_2NiO_2$**<br>$NiH_{14}C_{20}O_2N_2$ | **N,N-(o-Phenylen)-bis(salicylidenediamino)nickel**<br>Structure by GED/MS and QC<br>*G. V. Girichev, N. I. Giricheva, E. D. Pelevina, N. V. Tverdova, N. P. Kuz'mina, O. V. Kotova*<br>Manuscript in preparation |
| **$C_{20}H_{14}N_2O_2Zn$**<br>$ZnH_{14}C_{20}O_2N_2$ | **N,N-(o-Phenylen)-bis(salicylidenediamino)zinc**<br>Structure by GED/MS and QC<br>*G. V. Girichev, N. I.Giricheva, N. V. Tverdova, E. D. Pelevina, N. P. Kuzmina, O. V. Kotova*<br>J. Mol. Struct. (2010), doi:10.1016/j.molstruc.2010.02.023. |
| **$C_{22}H_{18}N_2O_4Zn$**<br>$H_{18}C_{22}O_4N_2Zn$ | **N,N-(o-Phenylen)-bis(3-methoxysalicylidenediamino)zinc**<br>Structure, IR spectra by QC<br>*N. V. Tverdova, G. V. Girichev, N. P. Kuzmina, O. V. Kotova*<br>Manuscript complete |
| **$C_{28}H_{28}CuN_4$**<br>$C_{28}H_{28}N_4Cu$ | **Octamethylporphyrin copper(II)**<br>Structure by GED/MS and QC<br>*G. V.Girichev, N. I. Giricheva, O. A. Golubchikov, Y. V. Minenkov, A. S. Semeikin, S. A. Shlykov*<br>J. Mol. Struct, accepted |
| **$C_{28}H_{28}N_4Ni$**<br>$C_{28}H_{28}N_4Ni$ | **Nickeloctamethylporphyrine**<br>Structure, ruffling effect and conformations by GED/MS and QC calculations<br>*G. V. Girichev, N.I.Giricheva, O. A. Golubchikov, Yu. V. Minenkov, A. S. Semeikin, S. A. Shlykov.*<br>Manuscript in preparation |
| **$C_{32}H_{16}CuN_8$**<br>$C_{32}H_{16}CuN_8$ | **Copperphthalocyanine**<br>Structure by GED/MS and QC calculations<br>*G. V. Girichev, N.I.Giricheva, O. A. Golubchikov, Yu. V. Minenkov, A. S. Semeikin, S. A. Shlykov*<br>Manuscript in preparation |
| **$C_{32}H_{16}N_8OTi$**<br>$TiOC_{32}H_{16}N_8$ | **Oxotitaniumphthalocyanine**<br>Structure by GED/MS and QC<br>*A. V. Zakharov, S. A. Shlykov, Yu. A. Zhabanov, G. V. Girichev*<br>Phys. Chem. Chem. Phys. (2009) 3472-3477 |
| **$C_{42}H_{39}N_{15}S_3$** | **Trithiadiazoletri(5-tert-butylisoindole)macrocycle**<br>Structures by GED experiment and DFT calculations<br>*A. V. Zakharov, S. A. Shlykov, E. A. Danilova, A. V. Krasnov, M. K. Islyaikin, G. V. Girichev* |

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| | Phys. Chem. Chem. Phys. **11** (2009) 8570-8579 |
| **$C_{42}H_{39}N_{15}S_3$**<br>$S_3C_{42}H_{39}N_{15}$ | Structure by GED/MS and QC<br>*V. Zakharov, S. A. Shlykov, E. A. Danilova, A. V. Krasnov, M. K. Islyaikin, G. V. Girichev*<br>Phys. Chem. Chem. Phys. **11** (2009) 8570 - 8579 |
| **$Cl_3Er$**<br>$ErCl_3$ | **Erbium trichloride**<br>Structure by GED/MS and QC<br>*N. I. Giricheva, S. A. Shlykov, G. V. Girichev, E. V. Chernova and E. Lapykina*<br>Zh. Strukt. Khim. **50**(2) (2009) 251-261 |
| **$Cl_3Yb$**<br>$YbCl_3$ | **Ytterbium trichloride**<br>Structure by GED/MS and QC<br>*N. I. Giricheva, S. A. Shlykov, G. V. Girichev, E. V. Chernova and E. Lapykina*<br>Zh. Strukt. Khim. **50**(2) (2009) 251-261 |
| **$Cl_4Te$**<br>$TeCl_4$ | **Tellurium tetrachloride**<br>Structure by GED/MS and QC<br>*S. A. Shlykov, N. I. Giricheva, A. V. Titov, M. Szwak, D. Lentz G. V. Girichev*<br>Dalton Trans. **39** (2010) 3245–3255 |
| **$DyI_3$**<br>$DyI_3$ | **Dysprosium triiodide**<br>Structure and nuclear dynamics by GED/MS and QC<br>*S. A. Shlykov, N. I. Giricheva, E. A. Lapykina, G. V. Girichev, H. Oberhammer*<br>J. Mol. Struct, accepted |
| **$ErI_3$**<br>$ErI_3$ | **Erbium triiodide**<br>Structure and nuclear dynamics by GED/MS and QC<br>*S. A. Shlykov, N. I. Giricheva, E. A. Lapykina, G. V. Girichev, H. Oberhammer*<br>J. Mol. Struct, accepted |
| **$F_4Te$**<br>$TeF_4$ | **Tellurium tetrafluoride**<br>Structure by GED/MS and QC<br>*S. A. Shlykov, N. I. Giricheva, A. V. Titov, M. Szwak, D. Lentz G. V. Girichev*<br>Dalton Trans. **39** (2010) 3245–3255 |
| **$GdI_3$**<br>$GdI_3$ | **Gadolinium triiodide**<br>Structure and nuclear dynamics by GED/MS and QC<br>*S. A. Shlykov, N. I. Giricheva, E. A. Lapykina, G. V. Girichev, H. Oberhammer*<br>Manuscript in preparation |
| **$HoI_3$**<br>$HoI_3$ | **Holmium triiodide**<br>Structure and nuclear dynamics by GED/MS and QC<br>*S. A. Shlykov, N. I. Giricheva, E. A. Lapykina, G. V. Girichev, H. Oberhammer*<br>J. Mol. Struct, accepted |
| **$I_2Te$**<br>$TeI_2$ | **Tellurium diiodide**<br>Structure by GED/MS and QC<br>*S. A. Shlykov, N. I. Giricheva, G. V. Girichev, H. Oberhammer and A. V. Titov*<br>Eur. J. Inorg. Chem. **33** (2008) 5220 – 5227 |
| **$I_3Pr$**<br>$PrI_3$ | **Praseodymium triiodide**<br>Structure and nuclear dynamics by GED/MS and QC<br>*S. A. Shlykov, N. I. Giricheva, E. A. Lapykina, G. V. Girichev, H. Oberhammer*<br>Manuscript in preparation |
| | **Terbium triiodide** |

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| **$I_3Tb$**<br>$TbI_3$ | Structure and nuclear dynamics by GED/MS and QC<br>*S. A. Shlykov, N. I. Giricheva, E. A. Lapykina, G. V. Girichev, H. Oberhammer*<br>J. Mol. Struct, accepted |
| **$O_6Sb_4$**<br>$Sb_4O_6$ | **Antimony(III) oxide**<br>Structure by GED/MS and QC<br>*S. L. Masters, G. V. Girichev, S. A. Shylkov*<br>Dalton.Trans., submitted |
| | **Dihalogenated porphyrins and phthalocyanines of titanium**<br>Structures by DFT calculations<br>*A. V. Zakharov*<br>Mol. Phys. **107** (2009) 2493-2501 |
| | **Hemiporphyrazines**<br>Structres, vibrational spectra and electronic spectra by DFT calculations<br>*A. V. Zakharov, M. G. Stryapan, M. K. Islyaikin*<br>J. Mol. Struct.: THEOCHEM **906** (2009) 56-62 |
| | **Thiadiazole-containing expanded heteroazaporphyrinoids**<br>Structures by DFT calculations<br>*A. V. Zakharov, S. A. Shlykov, E. A. Danilova, A. V. Krasnov, M. K. Islyaikin, G. V. Girichev*<br>Phys. Chem. Chem. Phys. **11** (2009) 8570-8579 |
| | **Lanthanum bromine system**<br>Mass-spectrometric study of vapors and structure by DFT calculation<br>*D. A. Ivanov, V. V. Sliznev, L. S. Kudin, M. F. Butman*<br>Izv. Vys. Uch. Zav. Khim. Khim. Tekhnol. **51**(3) (2008) 23-26 |
| | **Neodymium, erbium, ytterbium and lutetium dipivaloylmethanates**<br>Mass-spectrometric study of overheated vapors<br>*G. V. Girichev, N. V. Belova, N. K. Chang, S. A. Shlykov, N. P. Kuzmina*<br>Zh. Neorg. Khim. , submitted |
| | **N,N'-Ethylene-bis(acetylacetoneiminato)complexes of copper, nickel and zinc**<br>Mass-spectrometric study of vapors<br>*G. V. Girichev, N. V. Tverdova, N. P. Kuz'mina, A. O. Symakov, O. V. Kotova*<br>Russ. J. Inorg. Chem. **54**(12) (2009) 1–6 |
| | **Tris(hexafluoroacetylacetonato)ytterbium**<br>Mass-spectrometric study of vapors<br>*G. V. Girichev, V. V. Rybkin, V.V. Tunina, A.V. Krasnov, N. V. Tverdova, N. P. Kuz'mina, I. G. Zaitseva*<br>Russ. J. Inorg. Chem., submitted |
| | **Chalcogen tetrahalides**<br>Structure and conformations by QC<br>*H. Oberhammer, S. A. Shlykov*<br>Dalton Trans. **39** (2010) 2838 - 2841 |
| | **Copper and scandium acetylacetonate derivatives**<br>Internal rotation of CX3 substituents by QC study<br>*N. V. Belova, G. V.Girichev, H. Oberhammer*<br>Zh. Strukt. Khim. , submitted |
| | **Aluminium, gallium and indium dipivaloylmethanates**<br>Structure by DFT calculations<br>*N. V. Belova, T. A. Zhukova, G. V. Girichev*<br>Materials of IV Seminar for young scientists "Quantum-chemical calculations: structure and reactivity of organic and inorganic molecules", Ivanovo, (2009) 115-117 |

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| | **Cobalt, iron and manganese dipivaloylmethanates**<br>Molecular structure and electronic states by QC<br>*N. V. Belova, V. V. Sliznev, G. V. Girichev*<br>Zh. Strukt. Khim. , accepted |
| | **N,N-Bis(salicylidene)ethylenediamino complexes of copper, nickel and zinc**<br>Mass-spectrometric study of vapors<br>*N. V. Tverdova, G. V. Girichev, S. A.Shlykov, V. V. Rybkin, N. P. Kuz'mina, O. V. Kotova*<br>Russ. J. Inorg. Chem., submitted |
| | **N,N'-Ethylene-bis(acetylacetoiminato) and N,N-bis(salicylidene)ethylenediamino complexes with copper, nickel and zinc**<br>Structure, IR spectra by QC<br>*N. V. Tverdova, N. I. Giricheva, G. V. Girichev, N. P. Kuz'mina, O. V. Kotova, A. V. Zakharov*<br>Russ. J. Phys. Chem. A **83**(13) (2009) 61–71 |
| | **Carbonyl compourds**<br>Tautomeric and conformational properties by DFT calculation (NBO analysis).<br>*N. V.Belova, V. V.Sliznev, H. Oberhammer, G. V.Girichev*<br>J. Mol. Struct., doi:10.1016/j.molstruc.2010.02.070 |
| | **Diselenium dichloride and dibromide**<br>Structure by QC<br>*S. A. Shlykov*<br>Proc. IV All-Russ. School Quant. Chem., Ivanovo, (2009) 291-295 |