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Be₂	Beryllium diiodide Structure by GED/MS and QC (CCSD(T)) <i>S. A. Shlykov, Yu. A. Zhabanov, A. V. Zakharov, G. V. Girichev, and N. I. Giricheva</i> Manuscript completed
C₄HF₁₀OP (C ₂ F ₅) ₂ POH	Hydroxo-bis(pentafluoroethyl)phosphane Structure by GED and QC <i>A. V. Zakharov, N. Allefeld, J. Bader, B. Kurscheid, S. Steinhauer, B. Hoge, Yu. V. Vishnevskiy, B. Neumann, H.-G. Stammler, R. J. F. Berger, and N. W. Mitzel</i> Eur. J. Inorg. Chem., 19 (2013), 3392
C₄HF₁₀P (C ₂ F ₅) ₂ PH	Bis(pentafluoroethyl)phosphane Structure by GED and QC <i>A. V. Zakharov, N. Allefeld, J. Bader, B. Kurscheid, S. Steinhauer, B. Hoge, Yu. V. Vishnevskiy, B. Neumann, H.-G. Stammler, R. J. F. Berger, and N. W. Mitzel</i> Eur. J. Inorg. Chem., 19 (2013), 3392
C₄N₄S	1,2,5-Thiadiazole-3,4-dicarbonitrile Structure by GED/MS and QC <i>G. V. Girichev, N. I. Giricheva, and N. V. Tverdova</i> Manuscript in preparation
C₅H₈O₂ CH ₃ C(O)CH ₂ C(O)CH ₃	Acetylacetone Structure by GED/MS and QC <i>N. V. Belova, N. H. Trang, G. V. Girichev, and H. Oberhammer</i> J.Org.Chem., in press
	3-Methyl-1-oxo-3-silacyclohexane

C₅H₁₂OSi	Structure by QC <i>D. Yu. Osadchiy and S. A. Shlykov</i> ibid, p.113-116
C₆H₅NO₅S 3-NO ₂ C ₆ H ₄ SO ₃ H	3-Nitrobenzenesulfonic acid Structure by GED/MS and QC <i>N. I. Giricheva, G. V. Girichev, M. S. Fedorov, and S. N. Ivanov</i> J. Struct. Chem., 24 (2013), 807
C₆H₁₅NSi	1,3-Dimethyl-3-silapiperidine Structure by GED/MS, QC, NMR, IR and Raman <i>B. A. Shainyan, S. V. Kirpichenko, E. Kleinpeter, S. A. Shlykov, D. Yu. Osadchiy, N. N. Chipanina, and L. P. Oznobikhina</i> J. Org. Chem., 78 (2013), 3939
C₇H₇NO₅S	4-Nitrobenzenesulfonic acid methyl ester Structure by GED/MS and QC <i>M. S. Fedorov, N. I. Giricheva, G. V. Girichev, and S. N. Ivanov</i> J. Mol. Struct., in press
C₇H₇NO₅S	2-Nitrobenzenesulfonic acid methyl ester Structure by GED/MS and QC <i>M. S. Fedorov, N. I. Giricheva, G. V. Girichev, and S. N. Ivanov</i> J. Struct. Chem., in press
C₇H₈O₃S	4-Methylbenzenesulfonic acid Structure by GED/MS and QC <i>N. I. Giricheva, G. V. Girichev, M. S. Fedorov, and S. N. Ivanov</i> J. Struct. Chem., 24 (2013), 807
C₈H₆N₂O₂	3-Aminophthalimide Structure by GED/MS and QC <i>G. V. Girichev, N. I. Giricheva, M. K. Islyaikin, and D. S. Savelyev</i> Manuscript in preparation
C₁₀H₆Cl₂O₄S₂	1,5-Naphthalene disulfonyl dichloride IR spectrum <i>N. I. Giricheva, G. V. Girichev, D. Christen, S. N. Ivanov, V. M. Petrov, and V. N. Petrova</i> Manuscript in preparation
C₁₀H₆Cl₂O₄S₂	1,5-Naphthalene disulfonyl dichloride MS study <i>N. I. Giricheva, G. V. Girichev, H. Oberhammer, V. M. Petrov, and V. N. Petrova</i> Manuscript in preparation
C₁₀H₆Cl₂O₄S₂	1,5-Naphthalene disulfonyl dichloride Structure by GED/MS and QC <i>N. I. Giricheva, G. V. Girichev, M. Dakkouri, S. N. Ivanov, V. M. Petrov, and V. N. Petrova</i> Manuscript in preparation
C₁₀H₇ClO₂S	β-Naphthalene sulfonyl chloride IR spectrum <i>N. I. Giricheva, G. V. Girichev, D. Christen, S. N. Ivanov, V. M. Petrov, and V. N. Petrova</i> Manuscript in preparation
C₁₀H₇ClO₂S	α-Naphthalene sulfonyl chloride IR spectrum <i>N. I. Giricheva, G. V. Girichev, D. Christen, S. N. Ivanov, V. M. Petrov, and V. N. Petrova</i> Manuscript in preparation
C₁₀H₇ClO₂S	β-Naphthalene sulfonyl chloride MS study

	<i>N. I. Giricheva, G. V. Girichev, H. Oberhammer, V. M. Petrov, and V. N. Petrova</i> Manuscript in preparation
C₁₀H₇ClO₂S	α-Naphthalene sulfonyl chloride MS study <i>N. I. Giricheva, G. V. Girichev, H. Oberhammer, V. M. Petrov, and V. N. Petrova</i> Manuscript in preparation
C₁₀H₇ClO₂S	β-Naphthalene sulfonyl chloride Structure by GED/MS and QC <i>N. I. Giricheva, V. M. Petrov, H. Oberhammer, G. V. Girichev, V. N. Petrova, S. N. Ivanov, and M. Dakkouri</i> J. Mol. Struct., 1042 (2013), 66
C₁₀H₇ClO₂S	α-Naphthalene sulfonyl chloride Structure by GED/MS and QC <i>N. I. Giricheva, V. M. Petrov, H. Oberhammer, G. V. Girichev, V. N. Petrova, S. N. Ivanov, and M. Dakkouri</i> Struct. Chem., 24 (2013), 819
C₁₀H₇FO₂S	β-Naphthalene sulfonyl fluoride Structure by GED/MS and QC <i>N. I. Giricheva, V. M. Petrov, H. Oberhammer, G. V. Girichev, V. N. Petrova, S. N. Ivanov, and M. Dakkouri</i> J. Mol. Struct., 1042 (2013), 66
C₁₀H₉NO₂S	α-Naphthalene sulfonamide IR spectrum <i>N. I. Giricheva, G. V. Girichev, D. Christen, S. N. Ivanov, V. M. Petrov, and V. N. Petrova</i> Manuscript in preparation
C₁₀H₉NO₂S	β-Naphthalene sulfonamide IR spectrum <i>N. I. Giricheva, G. V. Girichev, D. Christen, S. N. Ivanov, V. M. Petrov, and V. N. Petrova</i> Manuscript in preparation
C₁₀H₉NO₂S	α-Naphthalene sulfonamide MS study <i>N. I. Giricheva, G. V. Girichev, H. Oberhammer, V. M. Petrov, and V. N. Petrova</i> Manuscript in preparation
C₁₀H₉NO₂S	β-Naphthalene sulfonamide MS study <i>N. I. Giricheva, G. V. Girichev, H. Oberhammer, V. M. Petrov, and V. N. Petrova</i> Manuscript in preparation
C₁₀H₉NO₂S	α-Naphthalene sulfonamide Structure by GED/MS and QC <i>N. I. Giricheva, G. V. Girichev, M. Dakkouri, S. A. Shlykov, V. M. Petrov, V. N. Petrova, and H. Oberhammer</i> Manuscript in preparation
C₁₀H₉NO₂S β-C₁₀H₇SO₂NH₂	β-Naphthalene sulfonamide Structure by GED/MS and QC <i>N. I. Giricheva, G. V. Girichev, M. Dakkouri, S. A. Shlykov, V. M. Petrov, V. N. Petrova, and H. Oberhammer</i> Manuscript in preparation
C₁₀H₁₄	Anthracene Structure by GED/MS and QC

$C_{10}H_{14}$	G. V. Girichev, N. I. Giricheva, N. W. Mitzel, A. A. Otlyotov, and N. V. Tverdova VI. All-Russian youth school-conference "Quantum chemical calculation: structure and reactivity of organic and inorganic molecules", Ivanovo, (2013), p.348
$C_{10}H_{18}Si_2$ $C_{10}H_{18}Si_2$	1,4-Bis(trimethylsilyl)buta-1,3-diyne Structure by GED/MS and QC G. V. Girichev, N. I. Giricheva, N. W. Mitzel, A. A. Otlyotov, and N. V. Tverdova VI. All-Russian youth school-conference "Quantum chemical calculation: structure and reactivity of organic and inorganic molecules", Ivanovo, (2013), p.346
$C_{10}H_8$ $C_{10}H_8$	Naphthalene Structure by GED/MS and QC N. I. Giricheva, G. V. Girichev, M. Dakkouri, S. N. Ivanov, V. M. Petrov, and V. N. Petrova Manuscript in preparation
$C_{11}H_{12}N_2O_2$	L-Tryptophan Structure by GED/MS and QC V. V. Tyunina, N. I. Giricheva, and G. V. Girichev XV. European Symposium on Gas-Phase Electron Diffraction, Fraunchiemsee, Germany (2013)
$C_{11}H_{12}N_2O_2$	L-Tryptophan Structure by GED/MS and QC V. V. Tyunina, N. I. Giricheva, and G. V. Girichev VI. All-Russian youth school-conference "Quantum chemical calculation: structure and reactivity of organic and inorganic molecules", Ivanovo, (2013), p.111
$C_{11}H_{16}Si$	1-Phenyl-1-silacyclohexane Structure by GED/MS, QC, NMR B. A. Shainyan, S. V. Kirpichenko, S. A. Shlykov, E. Kleinpeter, and D. Yu. Osadchiy Struct. Chem. submitted
$C_{11}H_{20}O_2$	Dipivaloylmethane Structure by GED/MS and QC N. V. Belova, N. H. Trang, G. V. Girichev, and H. Oberhammer VI. All-Russian youth school-conference "Quantum chemical calculation: structure and reactivity of organic and inorganic molecules", Ivanovo, (2013), p.397
$C_{12}H_{10}$ $C_{12}H_{10}$	Acenaphthene Structure by GED/MS and QC G. V. Girichev, N. I. Giricheva, N. W. Mitzel, A. A. Otlyotov, and N. V. Tverdova VI. All-Russian youth school-conference "Quantum chemical calculation: structure and reactivity of organic and inorganic molecules", Ivanovo, (2013), p.348
$C_{14}H_{17}N_3O_3$	L-Alanyl-L-tryptophan Mass-spectrometric study of saturated vapors V. V. Tyunina, A. V. Krasnov, and G. V. Girichev XIX International Conference on Chemical Thermodynamics in Russia. Moscow, 24-28 June, 2013
$C_{15}H_{21}CoO_6$	Tris(acetylacetonato)cobalt Structure by GED/MS and QC N. V. Tverdova, G. V. Girichev, S. A. Shlykov, N. P. Kuz'mina, I. G. Zaitseva, and A. A. Petrova J. Struct. Chem., 54 (2013), 835

$C_{15}H_{21}CrO_6$	<p>Tris(acetylacetonato)chromium Structure by GED/MS and QC <i>N. V. Tverdova, G. V. Girichev, S. A. Shlykov, N. P. Kuz'mina, I. G. Zaitseva, and A. A. Petrova</i> J. Struct. Chem., 54 (2013), 835</p>
$C_{15}H_{27}GaO_6$ $GaO_6C_{15}H_{27}$	<p>Gallium(III) pivalate Structure by QC calculations <i>B. V. Puchkov, Yu. A. Zhabanov, and O. A. Pimenov</i> VI. All-Russian youth school-conference "Quantum chemical calculation: structure and reactivity of organic and inorganic molecules", Ivanovo, (2013), p. 400</p>
$C_{15}H_{27}InO_6$ $InO_6C_{15}H_{27}$	<p>Indium(III) pivalate Structure by QC calculations <i>B. V. Puchkov, Yu. A. Zhabanov, and O. A. Pimenov</i> VI. All-Russian youth school-conference "Quantum chemical calculation: structure and reactivity of organic and inorganic molecules", Ivanovo, (2013), p. 400</p>
$C_{16}N_{16}S_4Zn$	<p>Zinc tetrakis-(thiadiazole)porphyrazin Structure by GED/MS and QC <i>G. V. Girichev, N. I. Giricheva, and N. V. Tverdova</i> Manuscript in preparation</p>
$C_{28}H_{28}N_4Ni$	<p>Nickel octamethylporphirin Structure by GED/MS and QC <i>G. V. Girichev, A. E. Pogonin, and Yu. V. Minenkov</i> Manuscript in preparation</p>
$C_{30}H_{15}N_{15}S_3$	<p>[30]Trithia-2,3,5,10,12,13,15,20,22,23,25,30-dodecaazahexaphyrin Structure by GED/MS and QC <i>Yu. A. Zhabanov, A. V. Zakharov, S. A. Shlykov, O. N. Trukhina, E. A. Danilova, O. I. Koifman, and M. K. Islyaikin</i> J. Porphyrins Phthalocyanines, 17 (2013), 220</p>
$C_{32}H_{16}N_8OV$	<p>Oxovanadium phthalocyanine Structure by GED/MS and QC <i>N. V. Tverdova, G. V. Girichev, A. V. Krasnov, O. A. Pimenov, and O. I. Koifman</i> Struct. Chem., 24 (2013), 883</p>
$C_{32}H_{36}CoN_4$	<p>Cobalt etioporphyrin-II Structure by GED/MS and QC <i>G. V. Girichev, A. E. Pogonin, and N. V. Tverdova</i> Manuscript in preparation</p>
$C_{32}H_{36}CuN_4$	<p>Copper etioporphyrin-II Structure by GED/MS and QC <i>G. V. Girichev, A. E. Pogonin, and N. V. Tverdova</i> 15-th European Symposium on Gas-Phase Electron Diffraction, Frauenchiemsee, (2013), p. 62</p>
$C_{32}H_{36}N_4Ni$	<p>Nickel etioporphyrin-II Structure by GED/MS and QC <i>G. V. Girichev, A. E. Pogonin, and N. V. Tverdova</i> Manuscript in preparation</p>
$C_{32}H_{36}N_4Zn$	<p>Zinc etioporphyrin-II Structure by GED/MS and QC <i>G. V. Girichev, A. E. Pogonin, and N. V. Tverdova</i> XV. European Symposium on Gas-Phase Electron Diffraction, Fraunchiemsee, Germany (2013), p.62</p>

C₃₃H₅₇CoO₆	Tris(dipivaloylmethanato)cobalt Structure by GED and QC <i>N. V. Tverdova, S. Samdal, and G. V. Girichev</i> Struct. Chem., 24 (2013), 891
C₃₃H₅₇CrO₆	Tris(dipivaloylmethanato)chromium Structure by GED and QC <i>N. V. Tverdova, S. Samdal, and G. V. Girichev</i> Struct. Chem., 24 (2013), 891
C₃₃H₅₇InO₆	Indium dipivaloylmethanate Structure by GED/MS and QC <i>N. V. Belova, G. V. Girichev, A. Haaland, T. A. Zhukova, and N. P. Kuzmima</i> Struct. Chem., 24 (2013), 901
C₃₃H₅₇O₆Tm	Thullium tris-dipivaloylmethanate Structure by GED/MS and QC <i>N. V. Belova, V. V. Sliznev, G. V. Girichev, and O. A. Pimenov</i> XV. European Symposium on Gas-Phase Electron Diffraction, Fraunchiemsee, Germany (2013), p.64
C₄₀H₂₄Al₂N₈O	μ-Oxo dimer of aluminium(III) porphyrin Structure by QC calculations <i>A. V. Zakharov</i> Struct. Chem., 24 (2013), 877
C₄₂H₄₅N₆NdO₆	Tris-(1-phenyl-3-methyl-4-isobutyryl-pirazol-5-onato)neodimium Thermodynamics of sublimation by Knudsen method <i>N. M. Lazarev, Yu. A. Bessonova, B. I. Petrov, G. A. Abakumov, L. N. Bochkarev, A. V. Safronova, A. V. Arapova, A. V. Krasnov, and G. V. Girichev</i> Coord.Chem., 40 (2014), 1
C₄₂H₄₅N₆O₆Tb	Tris-(1-phenyl-3-methyl-4-isobutyryl-pirazol-5-onato)terbium Thermodynamics of sublimation by Knudsen method <i>N. M. Lazarev, Yu. A. Bessonova, B. I. Petrov, G. A. Abakumov, L. N. Bochkarev, A. V. Safronova, A. V. Arapova, A. V. Krasnov, and G. V. Girichev</i> Coord.Chem., 40 (2014), 1
C₄₈H₄₈CuN₈	Copper(II) 2,9,16,23-tetra-tert-butyl-phthalocyanine Structure by QC calculations <i>O. A. Pimenov and G. V. Girichev</i> VI. All-Russian youth school-conference "Quantum chemical calculation: structure and reactivity of organic and inorganic molecules", Ivanovo, (2013), p. 403
C₇₂H₃₂F₂₄MgN₈	Magnesium octa(trifluoromethylphenyl)porphyrine Structure by GED/MS and QC <i>A. V. Zakharov, Yu. A. Zhabanov, S. A. Shlykov, and G. V. Girichev</i> Manuscript has completed
CdF₂	Cadmium difluoride Structure by GED/MS and QC <i>D. P. Tran, S. A. Shlykov, N. I. Giricheva, and G. V. Girichev</i> VI. All-Russian youth school-conference "Quantum chemical calculation: structure and reactivity of organic and inorganic molecules", Ivanovo, (2013), p. 406
O₆Sb₄ Sb₄O₆	Antimony(III) oxide Structure by GED/MS and QC <i>S. L. Masters, G. V. Girichev, and S. A. Shlykov</i> Dalton Trans., 42 (2013), 3581

	<p>Rare earth trisdipivaloylmethanates Structure and vibrational spectra by QC calculations experimental IR and Raman spectra <i>N. V. Belova, D. Christen, V. V. Sliznev, and G. V. Girichev</i> VI. All-Russian youth school-conference "Quantum chemical calculation: structure and reactivity of organic and inorganic molecules", Ivanovo, (2013), p. 361</p>
	<p>Rare earth trisdipivaloylmethanates Structure by QC calculations <i>V. V. Sliznev, N. V. Belova, and G. V. Girichev</i> VI. All-Russian youth school-conference "Quantum chemical calculation: structure and reactivity of organic and inorganic molecules", Ivanovo, (2013), p. 356</p>
	<p>Nitrobenzenesulfonic acid derivatives MS study <i>M. S. Fedorov, N. I. Giricheva, S. N. Ivanov, and G. V. Girichev</i> Izv. Vys. Uch. Zav., Khim. Khim. Tekhnol., 56 (2011), 54</p>
	<p>Pyridine N-oxides Structure by QC calculations <i>N. I. Giricheva, N. V. Belova, M. S. Fedorov, and D. I. Rodnina</i> VI. All-Russian youth school-conference "Quantum chemical calculation: structure and reactivity of organic and inorganic molecules", Ivanovo, (2013), 385</p>
	<p>Acetylacetone derivatives Tautomeric and conformational properties by QC <i>N. V. Belova, N. H. Trang, G. V. Girichev, and H. Oberhammer</i> VI. All-Russian youth school-conference "Quantum chemical calculation: structure and reactivity of organic and inorganic molecules", Ivanovo, (2013), 385</p>
	<p>Benzenesulfonic acid derivatives QC (electronic effects of the functional groups) <i>S. N. Ivanov, N. I. Giricheva, M. S. Fedorov, I. A. Men'shikova, T. V. Nurkevich, and E. G. Tarasova</i> Zh. Fiz. Khim., 87 (2013), 626 / Russ. J. Phys. Chem. A, 87 (2013), 608</p>
	<p>Benzenesulfonic acid derivatives QC (energies of the gas phase deprotonation) <i>S. N. Ivanov, N. I. Giricheva, T. V. Nurkevich, and M. S. Fedorov</i> Zh. Fiz. Khim., 88 (2014), 647 / Russ. J. Phys. Chem. A, 88 (2014), 667</p>
	<p>Be and Mg porphyrin derivatives Structure by QC calculations <i>V. V. Sliznev</i> Macroheterocycles, 6 (2013), 111</p>
	<p>Co, Ni and Cu etioporphyrin-II Structure and vibrational spectra by QC calculations experimental IR spectra <i>V. V. Sliznev, A. E. Pogonin, A. A. Ischenko, and G. V. Girichev</i> Macroheterocycles in press</p>
	<p>Co, Ni and Cu etioporphyrin-II Structure and vibrational spectra by QC calculations experimental IR spectra <i>V. V. Sliznev, A. E. Pogonin, and G. V. Girichev</i> VI. All-Russian youth school-conference "Quantum chemical calculation: structure and reactivity of organic and inorganic molecules", Ivanovo, (2013), p. 413</p>
	<p>Magnesium tetra(1,2,5-telluradiazolo)porphyrizine derivatives Structure by QC</p>

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VI. All-Russian youth school-conference "Quantum chemical calculation:
structure and reactivity of organic and inorganic molecules", Ivanovo,
(2013), p. 410