

1. Dorazio, S. J.; Vogel, A.; Dechert, S.; Nevenon, D.; Nemykin, V. N.; Brückner, C.; Meyer, F. "Siamese-Twin Porphyrin Goes Platinum: Group 10 Monometallic, Homobimetallic, and Heterobimetallic Complexes" *Inorg. Chem.* **2020**, submitted.
2. Schrage, B. R.; Nemykin, V. N.; Ziegler, C. J. "Biliazine : A ring open phthalocyanine analog with a meso hydrogen bond" *Angew. Chim. Int. Ed.*, **2020**, submitted.
3. Schrage, B. R.; Vitale, D.; Kelly, K. A.; Nemykin, V. N.; Herrick, R. S.; Ziegler, C. J. "Binding a Meridional Ligand in a Facial Geometry: A Square Peg in a Round Hole" *J. Organomet. Chem.*, **2020**, submitted.
Viktor Nemykin
4. Zatsikha, Y. V.; Shamova, L. I.; Blesener, T.; Herbert, D. E.; Nemykin, V. N. "Rigid, Yet Flexible: Formation of the Unprecedented Silver MB-DIPY Dimers with Orthogonal Chromophore Geometry" *Dalton Trans.* **2020**, Ahead of Print DOI: 10.1039/d0dt00927j.
5. Schrage, B. R.; Nemykin, V. N.; Ziegler, C. J. "Structure and electronics in 1H-pyrrol-2-ylmethylene compounds" *Tetrahedron* **2020** in press <https://doi.org/10.1016/j.tet.2020.131149>
6. Morton, J.; Dennison, R.; Nemykin, V.; Gerasimchuk, N. "Planochromism of cyanoxime anions: computational and mechanistic studies in solid state and solutions" *Inorg. Chim. Acta* **2020**, *507*, 119570.
7. Nevenon, D. E.; Ferch, L. S.; Chernii, V. Y.; Herbert, D. E.; van Lierop, J.; Nemykin, V. N. "X-Ray structures, Mössbauer hyperfine parameters, and molecular orbital descriptions of the phthalocyaninato iron(II) azole complexes" *J. Porphyrins Phthalocyanines* **2020**, in press, DOI: 10.1142/S1088424619502043 (invited paper for special issue)
8. Zatsikha, Y. V.; Shamova, L. I.; Blesener, T. S.; Kuzmin, I. A.; Germanov, Y. V.; Herbert, D. E.; Nemykin, V. N. "Development of a Class of Easily Scalable, Electron-Deficient, Core-Extended Benzo-Fused Azadipyrromethene Derivatives ("MB-DIPY")" *J. Org. Chem.* **2019**, *84*, 14540-14557.
9. Nevenon, D. E.; Rohde, G. T.; Nemykin, V. N. "New Insight Into an Old Problem: Analysis, Interpretation, and Theoretical Modeling of the Absorption and Magnetic Circular Dichroism Spectra of Monomeric and Dimeric Zinc Phthalocyanine Cation-Radical" *Inorg. Chem.* **2019**, *58*, 14120-14135.
10. Zatsikha, Y. V.; Didukh, N. O.; Swedin, R. K.; Yakubovskiy, V. P.; Blesener, T. S.; Healy, A. T.; Herbert, D. E.; Blank, D. A.; Nemykin, V. N.; Kovtun, Y. P. "Preparation of Viscosity-Sensitive Isoxazoline/Isoxazolyl-Based Molecular Rotors and Directly Linked BODIPY-Fulleroisoxazoline from the Stable meso-(Nitrile Oxide)-Substituted BODIPY" *Org. Lett.* **2019**, *21*, 5713-5718.
11. McRae, E. K. S.; Nevenon, D. E.; McKenna, S. A.; Nemykin, V. N. "Binding and photodynamic action of the cationic zinc phthalocyanines with different types of DNA toward understanding of their cancer therapy activity" *J. Inorg. Biochem.* **2019**, *199*, 110793.
12. Fathi-Rasekh, M.; Rohde, G. T.; Hart, M. D.; Nakakita, T.; Zatsikha, Y. V.; Valiev, R. R.; Barybin, M. V.; Nemykin, V. N. "Positional Isomers of Isocyanoozulenenes as Axial Ligands Coordinated to Ruthenium(II) Tetraphenylporphyrin: Fine-tuning Redox and Optical Profiles" *Inorg. Chem.* **2019**, *58*, 9316-9325.
13. Majeed, S. A.; Ghazal, B.; Nevenon, D. E.; Nemykin, V. N.; Makhseed, S. "Spectroscopic and TDDFT studies on the charge-transfer properties of metallated Octa(carbazolyl)phthalocyanines" *Dyes & Pigments*, **2019**, *170*, 107593.
14. Zatsikha, Y. V.; Swedin, R. K.; Healy, A. T.; Goff, P. C.; Didukh, N. O.; Blesener, T. S.; Kayser, M.; Kovtun, Y. P.; Blank, D. A.; Nemykin, V. N. "Synthesis, Characterization, and Electron-Transfer Properties of Ferrocene-BODIPY-Fullerene Near-Infrared-Absorbing Triads: Are Catecholpyrrolidine-Linked Fullerenes a Good Architecture to Facilitate Electron-Transfer?" *Chem. Eur. J.* **2019**, *25*, 8401-8414.
15. Yusubov, M. S.; Soldatova, N. S.; Postnikov, P.; Valiev, R. R.; Yoshimura, A.; Wirth, T.; Nemykin, V.; Zhdankin, V. V. "2-Iodoxybenzoic acid ditriflate: the most powerful hypervalent iodine(V) oxidant" *Chem. Commun.* **2019**, *55*, 7760-7763.
16. Zatsikha, Y. V.; Schrage, B. R.; Meyer, J.; Nemykin, V. N.; Ziegler, C. J. "1,3-Diylideneisoindolines: Synthesis, Structure, Redox, and Optical Properties" *J. Org. Chem.* **2019**, *84*, 6217-6222.
17. Didukh, N. O.; Yakubovskiy, V. P.; Zatsikha, Y. V.; Rohde, G. T.; Nemykin, V. N.; Kovtun, Y. P. "Flexible BODIPY Platform That Offers an Unexpected Regioselective Heterocyclization Reaction toward Preparation of 2-Pyridone[a]-Fused BODIPYs" *J. Org. Chem.* **2019**, *84*, 2133-2147.
18. Swedin, R. K.; Zatsikha, Y. V.; Healy, A. T.; Didukh, N. O.; Blesener, T. S.; Fathi-Rasekh, M.; Wang, T.; King, A. J.; Nemykin, V. N.; Blank, D. A. Rapid Excited-State Deactivation of BODIPY Derivatives by a Boron-Bound Catechol *J. Phys. Chem. Lett.* **2019**, *10*(8), 1828-1832.
19. King, A. J.; Zatsikha, Y. V.; Blesener, T.; Dalbec, F.; Goff, P. C.; Kayser, M.; Blank, D. A.; Kovtun, Y. P.; Nemykin, V. N. Ultrafast electron-transfer in a fully conjugated coumarin-ferrocene donor-acceptor dyads *J. Organomet. Chem.* **2019**, *887*, 86-97.
20. Gao, Y.; Pan, Y.; Chi, Y.; He, Y.; Chen, H.; Nemykin, V. N. "A "reactive" turn-on fluorescence probe for hypochlorous acid and its bioimaging application" *Spectrochim. Acta, Part A: Molecular and Biomolecular Spectroscopy* **2019**, *206*, 190-196.
21. Belosludov, R. V.; Nevenon, D.; Rhoda, H. M.; Sabin, J. R.; Nemykin, V. N. "Simultaneous Prediction of the Energies of Qx and Qy Bands and Intramolecular Charge-Transfer Transitions in Benzoannulated and Non-Peripherally Substituted Metal-Free Phthalocyanines and Their Analogues: No Standard TDDFT Silver Bullet Yet" *J. Phys. Chem. A* **2019**, *123*, 132-152.
22. Zatsikha, Y. V.; Blesener, T. S.; Goff, P. C.; Healy, A. T.; Swedin, R. K.; Herbert, D. E.; Rohde, G. T.; Chanawanno, K.; Ziegler, C. J.; Belosludov, R. V.; Blank, D. A.; Nemykin, V. N. "1,7-Dipyrene-Containing Aza-BODIPYs: Are Pyrene Groups Effective as Ligands To Promote and Direct Complex Formation with Common Nanocarbon Materials?" *J. Phys. Chem. C* **2018**, *122*, 27893-27916. (this paper was highlighted on a cover page)
23. Didukh, N. O.; Yakubovskiy, V. P.; Zatsikha, Y. V.; Nemykin, V. N.; Kovtun, Y. P. "meso-Nitromethyl-Substituted BODIPYs – A new type of water switchable fluorogenic dyes useful for further core modifications" *Dyes & Pigments* **2018**, *149*, 774-782.

24. Yoshimura, A.; Shea, M. T.; Guselnikova, O.; Postnikov, P. S.; Rohde, G. T.; Saito, A.; Yusubov, M. S.; Nemykin, V. N.; Zhdankin, V. V. "Preparation and structure of phenolic arylodonium salts" *Chem. Commun.* **2018**, *54*, 10363-10366.
25. Nevenon, D. E.; Makarova, E. A.; King, A.; Lukyanets, E. A.; Nemykin, V. N. "Elucidation of the electronic structure of water-soluble quaternized meso-tetrakis(3-pyridyl)bacteriochlorin derivatives by experimental and theoretical methods" *J. Porphyrins Phthalocyanines* **2018**, *22*, 965-971. (*this paper was highlighted on a cover page*)
26. Dalbec, F.; King, A. J.; Belaya, I. G.; Voloshin, Y. Z.; Nemykin, V. N. "How Good is Clathrochelate Framework in Facilitating Long-Range Electron-Transfer? Case Study of the Ferrocenylboron-Capped Iron(II) Clathrochelate" *Macroheterocycles* **2018**, *11(3)*, 246 - 250, DOI: 10.6060/mhc180278v
27. Dieltiens, N.; Claeys, D. D.; Zhdankin, V. V.; Nemykin, V. N.; Allaert, B.; Verpoort, F.; Stevens, C. V. "The Pyroglutamate Hydantoin Rearrangement" *Eur. J. Org. Chem.* **2018**, (25), 3372.
28. Chanawanno, K.; Blesener, T. S.; Schrage, B. R.; Nemykin, V. N.; Herrick, R. S.; Ziegler, C. J. "Amino acid ferrocene conjugates using sulfonamide linkages" *J. Organomet. Chem.* **2018**, *870*, 121-129.
29. Mironova, I. A.; Postnikov, P. S.; Yusubova, R. Y.; Yoshimura, A.; Wirth, T.; Zhdankin, V. V.; Nemykin, V. N.; Yusubov, M. S. "Preparation and X-ray structure of 2-iodoxybenzenesulfonic acid (IBS) - a powerful hypervalent iodine(V) oxidant" *Beilstein Journal of Organic Chemistry* **2018**, *14*, 1854-1858.
30. Gao, Y.; Pan, Y.; He, Y.; Chen, H.; Nemykin, V. N. "A fast-response, red emission aza-BODIPY-hydrazone-based chemodosimeter for selective detection of HClO" *Sensors & Actuators, B: Chemical* **2018**, *269*, 151-157.
31. Doboszewski, B.; Nazarenko, A. Y.; Nemykin, V. N.; e Silva, M. J. "Crystal structure of (S)-1-O-tert-butylidiphenylsilylglycerol: eight chiral molecules in a triclinic cell" *Acta Cryst.* **2018**, *E74*, 1373-1379.
32. Yoshimura, A.; Nguyen, K.C.; Nemykin, V.N.; Zhdankin, V.V. "Preparation, Structure, and Oxidative Reactivity of (Dichloroiodo)pyridines: Recyclable Hypervalent Iodine Reagents" *ARKIVOC* **2018**, (ii), 40-49.
33. Shimizu, H.; Yoshimura, A.; Noguchi, K.; Nemykin, V.N.; Zhdankin, V.V.; Saito, A. "Oxidative cycloaddition of hydroxamic acids with dienes or guaiacols mediated by iodine(III) reagents" *Beilstein Journal of Organic Chemistry* **2018**, *14*, 531-536.
34. Misra, R.; Jadhav, T.; Nevenon, D.; Monzo, E. M.; Mobin, S. M.; Nemykin, V. N. "Synthesis, Structures, and Redox Properties of Tetracyano-Bridged Diferrocene Donor-Acceptor-Donor Systems" *Organometallics* **2017**, *36*, 4490-4498.
35. Yoshimura, A.; Fuchs, J. M.; Middleton, K. R.; Maskaev, A. V.; Rohde, G. T.; Saito, A.; Postnikov, P. S.; Yusubov, M. S.; Nemykin, V. N.; Zhdankin, V. V. "Pseudocyclic Arylbenziodoxaboroles: Efficient Benzyne Precursors Triggered by Water at Room Temperature" *Chem. Eur. J.* **2017**, *23*, 16738-16742.
36. Zatsikha, Y. V.; Nemez, D. B.; Davis, R. L.; Singh, S.; Herbert, D. E.; King, A. J.; Ziegler, C. J.; Nemykin, V. N. "Testing the Limits of the BOPHY Platform: Preparation, Characterization, and Theoretical Modeling of BOPHYs and Organometallic BOPHYs with Electron-Withdrawing Groups at β -Pyrrolic and Bridging Positions" *Chem. Eur. J.* **2017**, *23(59)*, 14786-14796. (*this paper was highlighted on a cover page*)
37. Majeed, S. A.; Ghazal, B.; Nevenon, D. E.; Goff, P. C.; Blank, D. A.; Nemykin, V. N.; Makhseed, S. "Evaluation of the intramolecular charge-transfer properties in solvatochromic and electrochromic zinc octa(carbazolyl)phthalocyanines" *Inorg. Chem.* **2017**, *56*, 11640-11653.
38. Cheadle, C.; Ratcliff, J.; Berezin, M. Y.; Pal'shin, V.; Nemykin, V.; Gerasimchuk, N. "Shortwave infrared luminescent Pt-nanowires: mechanistic study of emission in solution and solid state" *Dalton Trans.* **2017**, *46(39)*, 13562-13581
39. Baba, T.; Takahashi, S.; Kambara, Y.; Yoshimura, A.; Nemykin, V.N.; Zhdankin, V.V.; Saito, A. "Development of Imino- λ^3 -iodanes with Improved Reactivity for Metal-Free [2+2+1] Cycloaddition-Type Reactions" *Adv. Synth. Catal.* **2017**, *359*, 3860-3864.
40. Shaw, J. L.; Doble, S. J.; Stewart, J.; Nemykin, V. N. "Charged and confused: Meso-tetrakis(p-methoxycarbonyl-phenyl) N-confused porphyrin as a precursor to water soluble variants" *J. Porphyrins Phthalocyanines* **2017**, *21*, 287-294.
41. Nemykin, V. N.; Blesener, T. S.; Ziegler, C. J. "Photophysics, redox processes, and electronic structures of ferrocenyl-containing BODIPYs, aza-BODIPYs, BOPHYs, transition-metal dipyrromethenes and aza-dipyrromethenes" *Macroheterocycles*, **2017**, *10(1)*, 9-26. (*this paper was highlighted on a cover page*)
42. Zatsikha, Y. V.; Didukh, N. O.; Nemez, D.; Schlachter, A. C.; Karsenti, P.-L.; Kovtun, Y. P.; Harvey, P. D.; Nemykin, V. N. "Ferrocene-BODIPY merocyanine dyads: new NIR absorbing platforms with optical properties susceptible to protonation" *Chem. Commun.* **2017**, *53*, 7612-7615.
43. Makarova, E. A.; Zatsikha, Y. V.; Newman, K. M. E.; Paidi, V. K.; Beletsky, V. A.; van Lierop, J.; Lukyanets, E. A.; Nemykin, V. N. "Direct Synthesis of an Unprecedented Stable Radical of Nickel(II) 3,5-Bis(dimedonyl)azadiisoindomethene with Strong and Narrow Near-Infrared Absorption at $\lambda \sim 1000$ nm" *Inorg. Chem.* **2017**, *56*, 6052-6055.
44. Doble, S.; Osinski, A. J.; Holland, S. M.; Fisher, J. M.; Geier, G. R.; Belosludov, R. V.; Ziegler, C. J.; Nemykin, V. N. "Magnetic Circular Dichroism of Transition-Metal Complexes of Perfluorophenyl-N-Confused Porphyrins: Inverting Electronic Structure through a Proton" *J. Phys. Chem. A* **2017**, *121*, 3689-3698.
45. Erickson, N. R.; Holstrom, C. D.; Rhoda, H. M.; Rohde, G. T.; Zatsikha, Y. V.; Galloni, P.; Nemykin, V. N. "Tuning Electron-Transfer Properties in 5,10,15,20-Tetra(1'-hexanoylferrocenyl)porphyrins as Prospective Systems for Quantum Cellular Automata and Platforms for Four-Bit Information Storage" *Inorg. Chem.* **2017**, *56*, 4716-4727.
46. Kawamata, M.; Sugai, T.; Minoura, M.; Maruyama, Y.; Furukawa, K.; Holstrom, C.; Nemykin, V. N.; Nakano, H.; Matano, Y. "Nitrogen-Bridged Metallodiazaporphyrin Dimers: Synergistic Effects of Nitrogen Bridges and meso-Nitrogen Atoms on Structure and Properties" *Chem. Asian J.* **2017**, *12*, 816-821.
47. Zatsikha, Y. V.; Holstrom, C. D.; Chanawanno, K.; Osinski, A. J.; Ziegler, C. J.; Nemykin, V. N. "Observation of the Strong Electronic Coupling in Near-Infrared-Absorbing Tetraferrocene aza-Dipyrromethene and aza-BODIPY with Direct Ferrocene- α - and Ferrocene- β -Pyrrole Bonds: Toward Molecular Machinery with Four-Bit Information Storage Capacity" *Inorg. Chem.* **2017**, *56*, 991-1000.

48. Cidlina, A.; Miletin, M.; Fathi-Rasekh, M.; Nemykin, V. N.; Zimcik, P.; Novakova, V. "OFF-ON-OFF Red-Emitting Fluorescent Indicators for a Narrow pH Window" *Chem. Eur. J.* **2017**, *23*, 1795-1804. (*this paper was highlighted on a cover page and covered by Wiley*)
49. Yoshimura, A.; Klasen, S. C.; Shea, M. T.; Nguyen, K. C.; Rohde, G. T.; Saito, A.; Postnikov, P. S.; Yusubov, M. S.; Nemykin, V. N.; Zhdankin, V. V. "Preparation, Structure, and Reactivity of Pseudocyclic Benziodoxole Tosylates: New Hypervalent Iodine Oxidants and Electrophiles" *Chem. Eur. J.* **2017**, *23*, 691-695.
50. Zatsikha, Y. V.; Didukh, N. O.; Blesener, T.; Kayser, M. P.; Kovtun, Y. P.; Blank, D. A.; Nemykin, V. N. "Preparation, Characterization, Redox, and Photoinduced Electron-Transfer Properties of the NIR-Absorbing N-Ferrocenyl-2-Pyridone BODIPYs" *Eur. J. Inorg. Chem.* **2017**, (2), 318-324. (*invited paper for special issue*)
51. Didukh, N. O.; Zatsikha, Y. V.; Rohde, G. T.; Blesener, T. S.; Yakubovskiy, V. P.; Kovtun, Y. P.; Nemykin, V. N. "NIR absorbing diferrocene-containing meso-cyano-BODIPY with a UV-Vis-NIR spectrum remarkably close to that of magnesium tetracyanotetraferrocenyltetraazaporphyrin" *Chem. Commun.* **2016**, *52*, 11563-11566.
52. Li, Y.; Rhoda, H. M.; Wertish, A. M.; Nemykin, V. N. "Organometallic pyrene-containing porphyrins: Synthesis, characterization, and non-covalent interactions with C₆₀ fullerenes" *J. Porphyrins Phthalocyanines* **2016**, *20*, 1098-1113 (*invited paper for special issue*).
53. Chanawanno, K.; Holstrom, C.; Nemykin, V. N.; Herrick, R. S.; Ziegler, C. J. "New 1,1'-Ferrocene Bis(sulfonyl) Reagents" *ChemistrySelect* **2016**, *1*, 6438-6441.
54. Osinski, A. J.; Blesener, T.; Hasheminasab, A.; Holstrom, C.; Nemykin, V. N.; Herrick, R. S.; Ziegler, C. J. "Re(CO)₃-Templated Synthesis of Semihemiporphyrazines" *Inorg. Chem.* **2016**, *55*, 12527-12530.
55. Dudkin, S. V.; Erickson, N. R.; Vologzhanina, A. V.; Novikov, V. V.; Rhoda, H. M.; Holstrom, C. D.; Zatsikha, Y. V.; Yusubov, M. S.; Voloshin, Y. Z.; Nemykin, V. N. "Preparation, X-ray Structures, Spectroscopic, and Redox Properties of Di- and Trinuclear Iron-Zirconium and Iron-Hafnium Porphyrinoclatrochelates" *Inorg. Chem.* **2016**, *55*, 11867-11882.
56. Chanawanno, K.; Holstrom, C.; Crandall, L. A.; Dodge, H.; Nemykin, V. N.; Herrick, R. S.; Ziegler, C. J. "The synthesis and structures of 1,1'-bis(sulfonyl)ferrocene derivatives" *Dalton Trans.* **2016**, *45*, 14320-14326.
57. Rhoda, H. M.; Akhigbe, J.; Ogikubo, J.; Sabin, J. R.; Ziegler, C. J.; Bruckner, C.; Nemykin, V. N. "Magnetic Circular Dichroism Spectroscopy of meso-Tetraphenylporphyrin-Derived Hydroporphyrins and Pyrrole-Modified Porphyrins" *J. Phys. Chem. A* **2016**, *120*, 5805-5815.
58. Yoshimura, A.; Nguyen, K. C.; Klasen, S. C.; Postnikov, P. S.; Yusubov, M. S.; Saito, A.; Nemykin, V. N.; Zhdankin, V. V. "Hypervalent Iodine-Catalyzed Synthesis of 1,2,4-Oxadiazoles from Aldoximes and Nitriles" *Asian J. Org. Chem.* **2016**, *5*, 1128-1133.
59. Rhoda, H. M.; Kayser, M. P.; Wang, Y.; Nazarenko, A. Y.; Belosludov, R. V.; Kiprof, P.; Blank, D. A.; Nemykin, V. N. "Tuning Up an Electronic Structure of the Subphthalocyanine Derivatives toward Electron-Transfer Process in Noncovalent Complexes with C₆₀ and C₇₀ Fullerenes: Experimental and Theoretical Studies" *Inorg. Chem.* **2016**, *55*, 9549-9563 (*editor's choice; front cover*).
60. Chanawanno, K.; Rhoda, H. M.; Hasheminasab, A.; Crandall, L. A.; King, A. J.; Herrick, R. S.; Nemykin, V. N.; Ziegler, C. J. "Using hydrazine to link ferrocene with Re(CO)₃: A modular approach" *J. Organomet. Chem.* **2016**, *818*, 145-153.
61. Anderson, D. R.; Solntsev, P. V.; Rhoda, H. M.; Nemykin, V. N. "How big is big? Separation by conventional methods, X-ray and electronic structures of positional isomers of bis-tert-butylisocyno adduct of 2(3),9(10),16(17),23(24)-tetrachloro-3(2),10(9),17(16),24(23)-tetra(2,6-di-iso-propylphenoxy)-phthalocyaninato iron(II) complex" *J. Porphyrins Phthalocyanines* **2016**, *20*, 337-351 (*invited paper for special issue*).
62. Pushkarev, V. E.; Tomilova, L. G.; Nemykin, V. N. "Historic overview and new developments in synthetic methods for preparation of the rare-earth tetrapyrrolic complexes" *Coord. Chem. Rev.* **2016**, *319*, 110-179 (*invited review*).
63. Crandall, L. A.; Rhoda, H. M.; Nemykin, V. N.; Ziegler, C. J. "Boron templated synthesis of a BODIPY analogue from a phthalocyanine precursor" *New J. Chem.* **2016**, *40*, 5675-5678.
64. Belosludov, R. V.; Rhoda, H. M.; Zhdanov, R. K.; Belosludov, V. R.; Kawazoe, Y.; Nemykin, V. N. "Conceptual design of tetraazaporphyrin- and subtetraazaporphyrin-based functional nanocarbon materials: electronic structures, topologies, optical properties, and methane storage capacities" *Phys. Chem. Chem. Phys.* **2016**, *18*, 13503-13518.
65. Solntsev, P. V.; Anderson, D. R.; Rhoda, H. M.; Belosludov, R. V.; Fathi-Rasekh, M.; Maligaspe, E.; Gerasimchuk, N. N.; Nemykin, V. N. "Initial Report on Molecular and Electronic Structure of Spherical Multiferoecenyl/tin(IV) (Hydr)oxide [(FcSn)₁₂O₁₄(OH)₆]X₂ Clusters" *Crystal Growth Design* **2016**, *16*, 1027-1037. **Research papers published from the University of Minnesota - Duluth**
66. Nemykin, V. N.; Dudkin, S. V.; Fathi-Rasekh, M.; Spaeth, A. D.; Rhoda, H. M.; Belosludov, R. V.; Barybin, M. V. "Probing Electronic Communications in Heterotrinary Fe-Ru-Fe Molecular Wires Formed by Ruthenium(II) Tetraphenylporphyrin and Isocyanoferrrocene or 1,1'-Diisocyanoferrrocene Ligands" *Inorg. Chem.* **2015**, *54*, 10711-10724.
67. Rhoda, H. M.; Chanawanno, K.; King, A. J.; Zatsikha, Y. V.; Ziegler, C. J.; Nemykin, V. N. "Unusually Strong Long-Distance Metal-Metal Coupling in Bis(ferrocene)-Containing BOPHY: An Introduction to Organometallic BOPHYs" *Chem. Eur. J.* **2015**, *21*, 18043-18046.
68. Hasheminasab, A.; Rhoda, H. M.; Crandall, L. A.; Ayers, J. T.; Nemykin, V. N.; Herrick, R. S.; Ziegler, C. J. "Hydrazine-mediated strongly coupled Re(CO)₃ dimers" *Dalton Trans.* **2015**, *44*, 17268-17277.
69. Zatsikha, Y. V.; Maligaspe, E.; Purchel, A. A.; Didukh, N. O.; Wang, Y.; Kovtun, Y. P.; Blank, D. A.; Nemykin, V. N. "Tuning electronic structure, redox, and photophysical properties in asymmetric NIR-absorbing organometallic BODIPYs" *Inorg. Chem.* **2015**, *54*, 7915-7928.
70. Mogesa, B.; Perera, E.; Rhoda, H. M.; Gibson, J. K.; Oomens, J.; Berden, G.; van Stipdonk, M. J.; Nemykin, V. N.; Basu, P. "Solution, Solid, and Gas Phase Studies on a Nickel Dithiolene System: Spectator Metal and Reactor Ligand" *Inorg. Chem.* **2015**, *54*, 7703-7716.

71. Novakova, V.; Reimerova, P.; Svec, J.; Suchan, D.; Miletin, M.; Rhoda, H. M.; Nemykin, V. N.; Zimcik, P. "Systematic investigation of phthalocyanines, naphthalocyanines, and their aza-analogues. Effect of the isosteric aza-replacement in the core" *Dalton Trans.* **2015**, 44, 13220-13233.
72. Yusubov, M. S.; Svitich, D. Yu.; Yoshimura, A.; Kastern, B. J.; Nemykin, V. N.; Zhdankin, V. V. Preparation, X-ray Structure, and Reactivity of Triisopropylsilyl-Substituted Aryl-iodonium Salts *Eur. J. Org. Chem.* **2015**, (22), 4831-4834.
73. Postnikov, P. S.; Guselnikova, O. A.; Yusubov, M. S.; Yoshimura, A.; Nemykin, V. N.; Zhdankin, V. V. "Preparation and X-ray Structural Study of Dibenziodolium Derivatives" *J. Org. Chem.* **2015**, 80, 5783-5788.
74. Rhoda, H. M.; Crandall, L. A.; Geier III, G. R.; Ziegler, C. J.; Nemykin, V. N. "Combined MCD/DFT/TDDFT Study of the Electronic Structure of Axially Pyridine Coordinated Metallocorroles" *Inorg. Chem.* **2015**, 54, 4652-4662.
75. Xu, Z.; Gao, F.; Makarova, E. A.; Heikal, A. A.; Nemykin, V. N. "Energy Transfer from Colloidal Quantum Dots to Near-Infrared-Absorbing Tetraazaporphyrins for Enhanced Light Harvesting" *J. Phys. Chem. C* **2015**, 119, 9754-9761.
76. Yoshimura, A.; Nguyen, K. C.; Klasen, S. C.; Saito, A.; Nemykin, V. N.; Zhdankin, V. V. "Preparation, structure, and versatile reactivity of pseudocyclic benziodoxole triflate, new hypervalent iodine reagent" *Chem. Commun.* **2015**, 51, 7835-7838.
77. Maligaspe, E.; Pundsack, T. J.; Albert, L. M.; Zatsikha, Y. V.; Solntsev, P. V.; Blank, D. A.; Nemykin, V. N. "Synthesis and Charge-Transfer Dynamics in a Ferrocene-Containing Organoboryl aza-BODIPY Donor-Acceptor Triad with Boron as the Hub" *Inorg. Chem.* **2015**, 54, 4167-4174.
78. Vecchi, A.; Erickson, N. R.; Sabin, J. R.; Floris, B.; Conte, V.; Venanzi, M.; Galloni, P.; Nemykin, V. N. "Electronic properties of mono-substituted tetraferrocenyl porphyrins in solution and on gold surface: assessment of the influencing factors for photoelectrochemical applications" *Chem. Eur. J.* **2015**, 21, 269-279.
79. Vecchi, A.; Galloni, P.; Floris, B.; Dudkin, S. V.; Nemykin, V. N. "Metallocenes meet porphyrinoids: Consequences of a "fusion"" *Coord. Chem. Rev.* **2015**, 291, 95-171.
80. Yoshimura, A.; Koski, S. R.; Fuchs, J. M.; Saito, A.; Nemykin, V. N.; Zhdankin, V. V. "Saccharin-Based μ -Oxo Imidoiodane: A Readily Available and Highly Reactive Reagent for Electrophilic Amination" *Chem. Eur. J.* **2015**, 21, 5328-5331.
81. Nemykin, V. N.; Makarova, E. A.; Erickson, N. R.; Solntsev, P. V. "Coupling ferrocene to brominated tetraazaporphyrin: exploring an alternative synthetic pathway for preparation of ferrocene-containing tetraazaporphyrins" *Turk. J. Chem.* **2014**, 38, 1027-1045 (invited paper for special issue).
82. Nemykin, V. N.; Makarova, E. A.; Grosland, J. O.; Dudkin, S. V.; Dennison, R.; Purchel, A. A. "Tuning the near-IR energy and redox potentials of magnesium tetra(ferrocenyl)tetraazaporphyrins" *J. Porphyrins Phthalocyanines* **2014**, 18, 792-803 (invited paper for special issue).
83. Yusubov, M. S.; Celik, C.; Geraskina, M. R.; Yoshimura, A.; Zhdankin, V. V.; Nemykin, V. N. "Binuclear iron(III) octakis(perfluorophenyl)tetraazaporphyrin μ -oxodimer: a highly efficient catalyst for biomimetic oxygenation reactions" *Tetr. Lett.* **2014**, 55, 5687-5690.
84. Maligaspe, E.; Hauwiller, M. R.; Zatsikha, Y. V.; Hinke, J. A.; Solntsev, P. V.; Blank, D. A.; Nemykin, V. N. "Redox and Photoinduced Electron-Transfer Properties in Short Distance Organoboryl Ferrocene-Subphthalocyanine Dyads" *Inorg. Chem.* **2014**, 53, 9336-9347.
85. Sun, B.; Ou, Z.; Meng, D.; Fang, Y.; Song, Y.; Zhu, W.; Solntsev, P. V.; Nemykin, V. N.; Kadish, K. M. "Electrochemistry and catalytic properties for dioxygen reduction using ferrocene-substituted cobalt porphyrins" *Inorg. Chem.* **2014**, 53, 8600-8609.
86. Nemykin, V. N.; Dudkin, S. V.; Dumoulin, F.; Hirel, C.; Gurek, A. G.; Ahsen, V. "Synthetic approaches to asymmetric phthalocyanines and their analogues" *ARKIVOC* **2014**, (i), 142-204.
87. Dahlby, M. R.; Purchel, A. A.; Solntsev, P. V.; Rohde, G. T.; Zatsikha, Y. V.; Nemykin, V. N. "Synthesis, characterization, redox, and Hg₂⁺ optical ion sensing properties of ferrocenyl-containing maleo- and fumaronitrile derivatives" *Can. J. Chem.* **2014**, 92, 739-749.
88. Ziegler, C. J.; Chanawanno, K.; Hasheminasab, A.; Zatsikha, Y. V.; Maligaspe, E.; Nemykin, V. N. "Synthesis, Redox Properties, and Electronic Coupling in the Diferrocene Aza-dipyrromethene and azaBODIPY Donor-Acceptor Dyad with Direct Ferrocene- α -Pyrrole Bond" *Inorg. Chem.* **2014**, 53, 4751-4755.
89. Tamgho, I.-S.; Hasheminasab, A.; Engle, J. T.; Nemykin, V. N.; Ziegler, C. J. "A New Highly Fluorescent and Symmetric Pyrrole-BF₂ Chromophore: BOPHY" *J. Am. Chem. Soc.* **2014**, 136, 5623-5626.
90. Yoshimura, A.; Koski, S. R.; Kastern, B. J.; Fuchs, J. M.; Jones, T. N.; Yusubova, R. Y.; Nemykin, V. N.; Zhdankin, V. V. "Hypiodite-mediated cyclopropanation of alkenes" *Chem. Eur. J.* **2014**, 20, 5895-5898.
91. Varzatskii, O. A.; Penkova, L. V.; Kats, S. V.; Dolganov, A. V.; Vologzhanina, A. V.; Pavlov, A. A.; Novikov, V. V.; Bogomyakov, A. S.; Nemykin, V. N.; Voloshin, Y. Z. "Chloride Ion-Aided Self-Assembly of Pseudocathrochelate Metal Tris-pyrazoloximates" *Inorg. Chem.* **2014**, 53, 3062-3071.
92. Goetsch, W. R.; Solntsev, P. V.; Van Stappen, C.; Purchel, A. A.; Dudkin, S. V.; Nemykin, V. N. "Electron-Transfer Processes in 3,4-Diferrocenylpyrroles: Insight into a Missing Piece of the Polyferrocenyl-Containing Pyrroles Family" *Organometallics* **2014**, 33, 145-157.
93. Nemykin, V. N.; Purchel, A. A.; Spaeth, A. D.; Barybin, M. V. "Probing the Electronic Properties of a Trinuclear Molecular Wire Involving Isocyanoferrrocene and Iron(II) Phthalocyanine Motifs" *Inorg. Chem.*, **2013**, 52, 11004-11012 (highlighted on a cover page of October 7 issue).
94. Dammer, S. J.; Solntsev, P. V.; Sabin, J. R.; Nemykin, V. N. "Synthesis, Characterization, and Electron-Transfer Processes in Indium Ferrocenyl-Containing Porphyrins and Their Fullerene Adducts" *Inorg. Chem.* **2013**, 52, 9496-9510.
95. Ziegler, C. J.; Erickson, N. R.; Dahlby, M. R.; Nemykin, V. N. "Magnetic Circular Dichroism Spectroscopy of N-Confused Porphyrin and its Ionized Forms" *J. Phys. Chem. A*, **2013**, 117, 11499-11508.
96. Kiprof, P.; Carlson, J. C.; Anderson, D. R.; Nemykin, V. N. "Systematic color tuning of a family of luminescent azole-based organoboron compounds suitable for OLED applications" *Dalton Trans.* **2013**, 42, 15120-15132.

97. Vecchi, A.; Galloni, P.; Floris, B.; Nemykin, V. N. "New developments in chemistry of organometallic porphyrins and their analogs". *J. Porphyrins Phthalocyanines* **2013**, *17*, 165-196 (highlighted on a cover page of March issue).
98. Yusubov, M. S.; Svitch, D. Yu.; Yoshimura, A.; Nemykin, V. N.; Zhdankin, V. V. "2-Iodoxybenzoic acid organosulfonates: preparation, X-ray structure and reactivity of new, powerful hypervalent iodine(V) oxidants" *Chem. Commun.* **2013**, *49*, 11269-11271.
99. Kacharov, A. D.; Yemets, S. V.; Nemykin, V. N.; Kacharova, L. M.; Fokin, A. A.; Krasutsky P. A. " Stereoselectivity of A-ring contraction for 3-oxotriterpenoids" *RSC Adv.* **2013**, *3*, 19057-19063.
100. Pimkov, I. V.; Nigam, A.; Venna, K.; Fleming, F. F.; Solntsev, P. V.; Nemykin, V. N.; Basu, P. "Dithiopyranthione Synthesis, Spectroscopy and an Unusual Reactivity with DDQ". *J. Heterocyclic Chem.*, **2013**, *50*, 879-886.
101. Gao, Y.; Nemykin, V. N. " Modeling of the energies and splitting of the Qx and Qy bands in positional isomers of zinc pyridinoporphyrazines by TDDFT approach: can TDDFT help distinguishing the structural isomers?". *J. Mol. Graphics Modeling* **2013**, *42*, 73-80.
102. Yusubov, M. S.; Yusubova, R. Y.; Nemykin, V. N.; Zhdankin, V. V. "Preparation and X-ray Structural Study of 1-Arylbenziodoxolones". *J. Org. Chem.*, **2013**, *78*, 3767-3773.
103. Basu, P.; Kail, B. W.; Adams, A. K.; Nemykin, V. N. "Quantitation of the ligand effect in oxo-transfer reactions of dioxo-Mo(VI) tris(pyrazolyl)borate complexes". *Dalton Trans.* **2013**, *42*, 3071-3081.
104. Lu, Z.; Abbina, S.; Sabin, J. R.; Nemykin, V. N.; Du, G. "Unexpected Formation of Chiral Pincer CNN Nickel Complexes with β -Diketiminato Type Ligands via C-H Activation: Synthesis, Properties, Structures, and Computational Studies". *Inorg. Chem.* **2013**, *52*, 1454-1465.
105. Zhu, C.; Yoshimura, A.; Solntsev, P.; Ji, L.; Wei, Y.; Nemykin, V. N.; Zhdankin, V. V. "New highly soluble dimedone-derived iodonium ylides: preparation, X-ray structure, and reaction with carbodiimide leading to oxazole derivatives" *Chem. Commun.* **2012**, *48*, 10108-10110.
106. Yusubov, M. S.; Yusubova, R. Y.; Nemykin, V. N.; Maskaev, A. V.; Geraskina, M. R.; Kirschning, A.; Zhdankin, V. V. "Potassium 4-iodylbenzenesulfonate: preparation, structure, and application as a reagent for oxidative iodination of arenes". *Eur. J. Org. Chem.* **2012**, 5935-5942.
107. Sabin, J. R.; Varzatskii, O. A.; Voloshin, Y. Z.; Starikova, Z. A.; Novikov, V. V.; Nemykin, V. N. "Insight into the Electronic Structure, Optical Properties, And Redox Behavior of the Hybrid Phthalocyaninocathrochelates from Experimental and Density Functional Theory Approaches". *Inorg. Chem.*, **2012**, *51*, 8362-8372.
108. Gao, Y.; Solntsev, P. V.; Nemykin, V. N. "Comparative electronic structures and UV-vis spectra of tribenzosubporphyrin, tribenzomonoazasubporphyrin, tribenzodiazasubporphyrin, and subphthalocyanine: insight from DFT and TDDFT calculations" *J. Mol. Graphics Modelling* **2012**, *38*, 369-374.
109. Nemykin, V. N.; Chen, P.; Solntsev, P. V.; Purchel, A. A.; Kadish, K. M. "Characterization of the unusual metal-free, zinc, chloroindium, and ferrocenylindium 5,10,15,20-tetraferrocenylporphyrin anion-radicals by spectroelectrochemical, DFT, and TDDFT approaches". *J. Porphyrins Phthalocyanines* **2012**, *16*, 793-801 (invited paper for special issue).
110. Yoshimura, A.; Middleton, K. R.; Zhu, C.; Nemykin, V. N.; Zhdankin, V. V. "Hypoiodite-Mediated Metal-Free Catalytic Aziridination of Alkenes". *Angew. Chem., Int. Ed.*, **2012**, *51*, 8059-8062.
111. Ziegler, C. J.; Nemykin, V. N. "2,5-Diaminothiophene-3,4-dicarbonitrile". *Acta Cryst. E*, **2012**, *E68*, o2693.
112. Nemykin, V. N.; Sabin, J. R. "Profiling Energetics and Spectroscopic Signatures in Prototropic Tautomers of Asymmetric Phthalocyanine Analogues". *J. Phys. Chem. A* **2012**, *116*, 7364-7371.
113. Solntsev, P. V.; Spurgin, K. L.; Sabin, J. R.; Heikal, A. A.; Nemykin, V. N. "Photoinduced Charge Transfer in Short-Distance Ferrocenylsubphthalocyanine Dyads". *Inorg. Chem.* **2012**, *51*, 6537-6547.
114. Zhu, C.; Yoshimura, A.; Ji, L.; Wei, Y.; Nemykin, V. N.; Zhdankin, V. V. "Design, Preparation, X-ray Crystal Structure, and Reactivity of o-Alkoxyphenyliodonium Bis(methoxycarbonyl)methanide, a Highly Soluble Carbene Precursor". *Org. Lett.* **2012**, *14*, 3170-3173.
115. Vecchi, A.; Gatto, E.; Floris, B.; Conte, V.; Venanzi, M.; Nemykin, V. N.; Galloni, P. "Tetraferrocenylporphyrins as active components of self-assembled monolayers on gold surface". *Chem. Commun.*, **2012**, *48*, 5145-5147 (invited paper for themed issue).
116. Marcano, D.; Gerasimchuk, N.; Nemykin, V.; Silchenko, S. "Synthesis, Characterization, and Studies of Coordination-Polymers With Isomeric Pyridylcyanoximes: Route to Metal Ribbons With Very Short Tl $\bullet\bullet$ Tl Separations". *Cryst. Growth Design* **2012**, *12*, 2877-2889.
117. Ziegler, C. J.; Sabin, J. R.; Geier, G. R.; Nemykin, V. N. "The first TDDFT and MCD studies of free base triarylcorroles: A closer look into solvent-dependent UV-visible absorption". *Chem. Commun.*, **2012**, *48*, 4743-4745 (invited paper for themed issue).
118. Nemykin, V. N.; Polshyna, A. E.; Makarova, E. A.; Kobayashi, N.; Lukyanets, E. A. "Unexpected formation of the nickel seco-tribenzoporphyrazine with a tribenzotetraazachlorin-type absorption spectrum". *Chem. Commun.*, **2012**, *48*, 3650-3652 (invited paper for themed issue).
119. Ratcliff, J.; Kuduk-Jaworska, J.; Chojnacki, H.; Nemykin, V.; Gerasimchuk, N. "Part 1: Experimental and theoretical studies of 2-cyano-2-isonitroso-N-piperidynylacetamide (HPiPCO), 2-cyano-2-isonitroso-N-morpholylacetamide (HMCO) and their Pt- and Pd-complexes". *Inorg. Chim. Acta.*, **2012**, *385*, 1-11.
120. Zhu, C.; Yoshimura, A.; Wei, Y.; Nemykin, V. N.; Zhdankin, V. V. "Facile preparation and reactivity of bifunctional ionic liquid-supported hypervalent iodine reagent: a convenient recyclable reagent for catalytic oxidation". *Tetrahedron Lett.*, **2012**, *53*, 1438-1444.
121. Doboszewski, B.; De Silva, M. J.; Nazarenko, A. Y.; Nemykin, V. N. "3-Deoxy-1,2-di-O-isopropylidene-5-O-tosyl-d-threo-pentofuranose". *Acta Cryst., Section E: Structure Reports Online* **2012**, *E68*, o1109-o1110.
122. Solntsev, P. V.; Goetsch, W. R.; Nemykin, V. N. "Formation of an Unexpected Organometallic Mercury Compound in a Palladium-Catalyzed Reaction". *Organometallics*, **2011**, *30*, 6636-6640.

123. Solntsev, P. V.; Neisen, B. D.; Sabin, J. R.; Gerasimchuk, N. N.; Nemykin, V. N. "Synthesis, characterization, X-ray structure, and mixed-valence states of *trans*-dichlorotin(IV)-5,10,15,20-tetraferrocenylporphyrin". *J. Porphyrins Phthalocyanines*, **2011**, *15*, 612-621 (invited paper for special issue).
124. Nazarenko A. Y.; Nemykin, V. N. "Crystal Data behind Efficient Cesium Recognition: Triphenylcyanoborates of Potassium, Rubidium, and Cesium". *CrystEngComm*, **2011**, *13*, 6352-6355.
125. Nemykin, V. N.; Maskae, A. V.; Geraskina, M. R.; Yusubov, M. S.; Zhdankin, V. V. "Preparation and X-ray crystal study of benziodoxaborole derivatives: new hypervalent iodine heterocycles". *Inorg. Chem.*, **2011**, *50*, 11263-11272.
126. Yoshimura, A.; Nemykin, V. N.; Zhdankin, V. V. "o-Alkoxyphenyliminoiodanes: Highly Efficient Reagents for the Catalytic Aziridination of Alkenes and the Metal-Free Amination of Organic Substrates". *Chem. Eur. J.*, **2011**, *17*, 10538-10541.
127. Sripathongnak, S.; Ziegler, C. J.; Dahlby, M. R.; Nemykin, V. N. "Controllable and Reversible Inversion of the Electronic Structure in Nickel N-Confused Porphyrin: A Case When MCD Matters". *Inorg. Chem.*, **2011**, *50*, 6902-6909.
128. Rohde, G. T.; Sabin, J. R.; Barrett, C. D.; Nemykin, V. N. "Long-range metal-metal coupling in transition-metal 5,10,15,20-tetraferrocenylporphyrins". *New J. Chem.*, **2011**, *35*, 1440-1448.
129. Solntsev, P. V.; Dudkin, S. V.; Sabin, J. R.; Nemykin, V. N. "Electronic Communications in (Z)-Bis(ferrocenyl)ethylenes with Electron-Withdrawing Substituents". *Organometallics*, **2011**, *30*, 3037-3046.
130. Yoshimura, A.; Banek, C. T.; Yusubov, M. S.; Nemykin, V. N.; Zhdankin, V. V. "Preparation, X-ray Structure, and Reactivity of 2-Iodylpyridines: Recyclable Hypervalent Iodine(V) Reagents". *J. Org. Chem.*, **2011**, *76*, 3812-3819.
131. Doboszewski, B.; Nazarenko, A. Y.; Nemykin, V. N. "3'-O-Acetyl-2'-deoxyuridine". *Acta Cryst.* **2011**, *E67*, o3-o4.
132. Doboszewski, B.; de Toni Uchoa, F.; Nazarenko, A. Y.; Nemykin, V. N. "Crystal structure of 1-deoxy-1-(3-hydroxypropyl)-O-triphenylmethyl- β -D-lyxofuranose, C₂₇H₃₀O₅". *Z. Kristallogr. NCS* **2011**, *226*, 61-62.
133. Nemykin, V. N.; Hadt, R. G. "Interpretation of the UV-Vis spectra of the meso(ferrocenyl)-containing porphyrins using TDDFT approach: is Gouterman's classic four-orbital model still in play?". *J. Phys. Chem. A* **2010**, *114*, 12062-12066.
134. Neu, H. M.; Zhdankin, V. V.; Nemykin, V. N. "Binuclear iron(III) phthalocyanine(μ -oxodimer)/tetrabutylammonium oxone: a powerful catalytic system for oxidation of hydrocarbons in organic solution". *Tetr. Lett.* **2010**, *51*, 6545-6548.
135. Nemykin, V. N.; Rohde, G. T.; Barrett, C. D.; Hadt, R. G.; Sabin, J. R.; Reina, G.; Galloni, P.; Floris, B. "Long-range electronic communication in free-base meso-poly(ferrocenyl)-containing porphyrins". *Inorg. Chem.* **2010**, *49*, 7497-7509.
136. Solntsev, P. V.; Sabin, J. R.; Dammer, S. J.; Gerasimchuk, N. N.; Nemykin, V. N. "Unexpected fluorescence properties in the axially π -bonded ferrocenyl-containing porphyrin". *Chem. Commun.* **2010**, 6581-6583.
137. Basu, P.; Nigam, A.; Mogesa, B.; Denti, S.; Nemykin, V. N. "Synthesis, characterization, spectroscopy, electronic and redox properties of a new nickel dithiolene system". *Inorg. Chim. Acta*, **2010**, *363*, 2857-2864.
138. Yusubov, M. S.; Nemykin, V. N.; Zhdankin, V. V. "Transition metal-mediated oxidations utilizing monomeric iodosyl- and iodylarene species". *Tetrahedron* **2010**, *66*, 5745-5752.
139. Yoshimura, A.; Neu, H. M.; Nemykin, V. N.; Zhdankin, V. V. "Metalloporphyrin/Iodine(III)-Cocatalyzed Oxygenation of Aromatic Hydrocarbons". *Adv. Synth. Catal.* **2010**, *352*, 1455-1460.
140. Grundt, P.; Douglas, K. A.; Krivogorsky, B.; Nemykin, V. N. "7,9-Dichloro-6H,12H-indolo[2,1-b]quinazoline-6,12-dione". *Acta Cryst.*, **2010**, *E66*, o1474-o1475.
141. Nemykin, V. N.; Lukyanets, E. A. "Synthesis of substituted phthalocyanines". *ARKIVOC* **2010**, *i*, 136-208.
142. Lukyanets, E. A., Nemykin, V. N. "The key role of peripheral substituents in the chemistry of phthalocyanines and their analogs". *J. Porphyrins Phthalocyanines* **2010**, *14*, 1 - 40.
143. Doboszewski, B.; da Silva, P. R.; Nazarenko, A. Y.; Nemykin, V. N. "6-[Bis(ethoxycarbonyl)methyl]-6-deoxy-1,2;3,4-di-O-isopropylidene-D-galactopyranose". *Acta Cryst.* **2010**, *E66*, o3217-o3218.
144. Neu, H. M.; Yusubov, M. S.; Zhdankin, V. V.; Nemykin, V. N. "Binuclear iron(III) phthalocyanine(μ -oxo-dimer)-catalyzed oxygenation of aromatic hydrocarbons with iodosylbenzene sulfate and iodosylbenzene as the oxidants". *Adv. Synth. Catal.* **2009**, *351*, 3168-3174.
145. Hadt, R. G.; Nemykin, V. N.; Olsen, J. G.; Basu, P. "Comparative calculation of EPR spectral parameters in [MovOX₄]_n, [MovOX₅]₂, and [MovOX₄(H₂O)]_n complexes". *Phys. Chem. Chem. Phys.* **2009**, *11*, 10377-10384.
146. Mailyan, A. K.; Geraskin, I. M.; Nemykin, V. N.; Zhdankin, V. V. "Preparation, X-ray Structure, and Oxidative Reactivity of N-(2-Iodylphenyl)tosylamides and 2-Iodylphenyl Tosylate: Iodylarenes Stabilized by Ortho-Substitution with a Sulfonyl Group". *J. Org. Chem.* **2009**, *74*, 8444-8447.
147. Nemykin, V. N.; Rohde, G. T.; Barrett, C. D.; Hadt, R. G.; Bizzarri, C.; Galloni, P.; Floris, B.; Nowik, I.; Herber, R. H.; Marrani, A. G.; Zanoni, R.; Loim, N. M. "Electron-Transfer Processes in Metal-Free Tetraferrocenylporphyrin. Understanding Internal Interactions To Access Mixed-Valence States Potentially Useful for Quantum Cellular Automata". *J. Am. Chem. Soc.* **2009**, *131*, 14969-14978.
148. Dorweiler, J. D.; Nemykin, V. N.; Ley, A. N.; Pike, R. D.; Berry, S. M. "Structural and NMR characterization of Sm(III), Eu(III), and Yb(III) Complexes of an amide based polydentate ligand exhibiting Paramagnetic Chemical Exchange Saturation Transfer abilities". *Inorg. Chem.* **2009**, *48*, 9365-9376.
149. Basu, P.; Nemykin, V. N.; Sengar, R. S. "Substituent Effect on Oxygen Atom Transfer Reactivity from Oxomolybdenum Centers: Synthesis, Structure, Electrochemistry, and Mechanism". *Inorg. Chem.* **2009**, *48*, 6303-6313.
150. Nemykin, V. N.; Kuposov, A. Y.; Netzel, B. C.; Yusubov, M. S.; Zhdankin, V. V. "Self-Assembly of Hydroxy(phenyl)iodonium Ions in Acidic Aqueous Solution: Preparation, and X-ray Crystal Structures of Oligomeric Phenyliodine(III) Sulfates". *Inorg. Chem.* **2009**, *48*, 4908-4917.
151. Geraskin, I. M.; Pavlova, O.; Neu, H. M.; Yusubov, M. S.; Nemykin, V. N.; Zhdankin, V. V. "Comparative reactivity of hypervalent iodine oxidants in metalloporphyrin-catalyzed oxygenation of hydrocarbons: iodosylbenzene sulfate and 2-iodylbenzoic acid ester as safe and convenient alternatives to iodosylbenzene". *Adv. Synth. Catal.* **2009**, *351*, 733-737.

152. Hadt, R. G.; Nemykin, V. N. " Exploring the Ground and Excited State Potential Energy Landscapes of the Mixed-Valence Biferrocenium Complex". *Inorg. Chem.* **2009**, *48*, 3982-3992.
153. Nemykin, V. N.; Dorweiler, J. D.; Subbotin, R. I. " Ferrocenylbutadiyne" *Acta Cryst., Sec. E: Structure Reports Online* **2009**, *E65*, m298-m299, m298/1-m298/7.
154. Zhdankin, V. V.; Nemykin, V. N.; Karimov, R. R.; Kazhkenov, Z.-G. " Preparation and X-ray crystal structure of 2-iodyl-N,N-dialkylaniline oxides: first entry into the heterocyclic system of benziodoxazole". *Chem. Commun.* **2008**, 6131-6133.
155. Geraskin, I. M.; Luedtke, M. W.; Neu, H. M.; Nemykin, V. N.; Zhdankin, V. V. " Organic iodine(V) compounds as terminal oxidants in iron(III) phthalocyanine catalyzed oxidation of alcohols". *Tetr. Lett.* **2008**, *49*, 7410-7412.
156. Ilkun, O. T.; Archibald, S. J.; Barnes, C. L.; Gerasimchuk, N.; Biagioni, R.; Silchenko, S.; Gerasimchuk, O. A.; Nemykin, V. N. " Benz(2-heteroaryl)cyanoximes and their Tl(I) complexes: new room temperature blue emitters". *Dalton Trans.* **2008**, 5715-5729.
157. Claeys, D. D.; Moonen, K.; Roman, B. I.; Nemykin, V. N.; Zhdankin, V. V.; Waroquier, M.; Van Speybroeck, V.; Stevens, C. V. " Synthesis of Tricyclic Phosphonopyrrolidines via IMDAF: Experimental and Theoretical Investigation of the Observed Stereoselectivity". *J. Org. Chem.* **2008**, *73*, 7921-7927.
158. Nemykin, V. N.; Galloni, P.; Floris, B.; Barrett, C. D.; Hadt, R. G.; Subbotin, R. I.; Marrani, A. G.; Zaroni, R.; Loim, N. M. "Metal-free and transition-metal tetraferrocenylporphyrins part I: synthesis, characterization, electronic structure, and conformational flexibility of neutral compounds". *Dalton Trans.* **2008**, 4233-4246.
159. Herber, R. H.; Nowik, I. Grosland, J. O.; Hadt, R. G.; Nemykin, V. N. "Metal atom dynamics in organometallics: Cyano ferrocenes". *J. Organomet. Chem.* **2008**, *693*, 1850-1856.
160. Sengar, R. S.; Nemykin, V. N., Basu, P. "Synthesis, Electrochemistry, Geometric and Electronic Structure of Oxo-Molybdenum Compounds Involved in an Oxygen Atom Transferring System". *J. Inorg. Biochem.* **2008**, *102*, 748-756.
161. Robin, B.; Buell, G.; Kiprof, P.; Nemykin, V. N. "3H-1,2-Benzoxaborole-1-spiro-4'-(5-oxa-3a-aza-4-borapyrene)". *Acta Cryst.* **2008**, *E64*, o314-o315, o314/1-o314/8.
162. Pedziwiatr, M.; Kosareff, N. M.; Muller, G.; Kopusov, A. Y.; Nemykin, V. N.; Riehl, J. P.; Legendziewicz, J. "Preparation, characterization, and circularly polarized luminescence of lanthanum and europium 1,1'-binaphthyl-2,2'-diyl phosphate complexes". *J. Alloys Comp.* **2008**, *451*, 251-253.
163. Kopusov, A. Y.; Nemykin, V. N.; Zhdankin, V. V. "(S)-Methyl 2-(2-iodobenzamido)-propionate". *Acta Cryst.* **2007**, *E63*, o4461.
164. Nemykin, V. N.; Hadt, R. G.; Belosludov, R. V.; Mizuseki, H.; Kawazoe, Y. "Influence of Molecular Geometry, Exchange-Correlation Functional, and Solvent Effects in the Modeling of Vertical Excitation Energies in Phthalocyanines Using TDDFT and PCM-TDDFT Methods: Can Modern Computational Chemistry Methods Explain Experimental Controversies?" *J. Phys. Chem. A* **2007**, *111*, 12901-12913.
165. Nemykin, V. N.; Makarova, E. A.; Grosland, J. O.; Hadt, R. G.; Kopusov, A. Y. "Preparation, Characterization, Molecular and Electronic Structures, TDDFT, and TDDFT/PCM Study of the Solvatochromism in Cyanovinylferrocenes". *Inorg. Chem.* **2007**, *46*, 9591-9601.
166. Kopusov, A. Y.; Netzel, B. C.; Yusubov M. S; Nemykin, V. N.; Nazarenko, A. Y.; Zhdankin, V. V. "Preparation and structure of oligomeric iodosylbenzene sulfate (PhIO)₃SO₃: stable and water-soluble analog of iodosylbenzene". *Eur. J. Org. Chem.* **2007**, 4475-4478.
167. Stevens, C. V.; Van Meenen, E.; Masschelein, K. G. R.; Eeckhout, Y.; Hooghe, W.; D'Hondt, B.; Nemykin, V. N.; Zhdankin, V. V. "A copper-catalyzed domino radical cyclization route to benzospiro-indolizidinepyrrolidinones". *Tetr. Lett.* **2007**, *48*, 7108-7111.
168. Nemykin, V. N.; Barrett, C. D.; Hadt, R. G.; Subbotin, R. I.; Maximov, A. Y.; Polshin, E. V.; Kopusov, A. Y. "Mixed-valence states formation in conformationally flexible metal-free 5,10,15,20-tetraferrocenylporphyrin and 5,10-bisferrocenyl-15,20-bisphenylporphyrin". *Dalton Trans.* **2007**, 3378-3389.
169. Nemykin, V. N.; Kopusov, A. Y.; Subbotin, R. I.; Sharma, S. "Preparation and characterization of first optically active rigid phthalocyanine dimers". *Tetr. Lett.* **2007**, *48*, 5425-5428.
170. Nemykin, V. N.; Maximov, A. Y.; Kopusov, A. Y. "Mercury-Free Preparation, Characterization, and Molecular Structure of Tricyanovinylferrocene Using an Unusual Reaction between Ferrocene and Tetracyanoethylene". *Organometallics* **2007**, *26*, 3138-3148.
171. Nemykin, V. N.; Polshyna, A. E.; Borisenkova, S. A.; Strelko, V. V. "Preparation, characterization, and catalytic activity of synthetic carbon-supported (phthalocyaninato)cobalt-containing complexes in dodecane-1-thiol oxidation reaction". *J. Mol. Cat. A: Chemical* **2007**, *264*, 103-109.
172. Nemykin, V. N.; Olsen, J. G.; Perera, E.; Basu, P. "Synthesis, Molecular and Electronic Structure, and TDDFT and TDDFT-PCM Study of the Solvatochromic Properties of (Me₂Pipdt)Mo(CO)₄ Complex (Me₂Pipdt = N,N'-Dimethylpiperazine-2,3-dithione)". *Inorg. Chem.* **2006**, *45*, 3557 - 3568.
173. Dieltiens, N.; Claeys, D. D.; Zhdankin, V. V.; Nemykin, V. N.; Allaert, B.; Verpoort, F.; Stevens, C. V. "The pyroglutamate hydantoin rearrangement". *Eur. J. Org. Chem.* **2006**, 2649 – 2660.
174. Nemykin, V. N.; Hadt, R. G. "Influence of Hartree-Fock Exchange on the Calculated Moessbauer Isomer Shifts and Quadrupole Splittings in Ferrocene Derivatives Using Density Functional Theory". *Inorg. Chem.* **2006**, *45*, 8297 - 8307.
175. Kopusov, A. Y.; Karimov, R. R.; Geraskin, I. M.; Nemykin, V. N.; Zhdankin, V. V. "2-Iodylphenol Ethers: Preparation, X-ray Crystal Structure, and Reactivity of New Hypervalent Iodine(V) Oxidizing Reagents". *J. Org. Chem.* **2006**, *71*, 8452 - 8458.
176. Nemykin, V. N.; Maximov, A. Y.; Barrett, C.; Kopusov, A. Y.; McGinn, M.; Loim, N. M.; Breggren, T. "Synthesis, spectroscopy, and theoretical modeling of mixed-valence states in polyferrocenyl-containing porphyrins and tetraazaporphyrins". *J. Porphyrins Phthalocyanines* **2006**, *10*, 490.
177. Nemykin, V. N.; Belosludov, R. V.; Mizuseki, H.; Kawazoe, Y. "Modeling of the vertical excitation energies in the structural isomers of pyridinoporphyrazines and their structural analogues using TDDFT, PCM-TDDFT, ZINDO/S, and PM3 methods". *J. Porphyrins Phthalocyanines* **2006**, *10*, 792.

178. Nemykin, V. N.; Addei-Maanu, C.; Kuposov, A. Y.; Tretyakova, I. N.; Polshyn, E. V. "An investigation of the catalytic degradation of the soluble μ -(oxo)dimeric iron phthalocyanine in non-coordinating solvents: spectroscopic and theoretical evidence for the formation of Feiv-O-Feiv core". *J. Porphyrins Phthalocyanines* **2006**, *10*, 793.
179. Ladziata, U.; Kuposov, A. Y.; Lo, K. Y.; Willing, J.; Nemykin, V. N.; Zhdankin, V. V. "Synthesis, Structure, and Chemoselective Reactivity of N-(2-Iodolphenyl)acylamides: Hypervalent Iodine Reagents Bearing a Pseudo Six-Membered Ring Scaffold". *Angew. Chem. Int. Ed.* **2005**, *44*, 7127-7131.
180. Nemykin, V. N.; McGinn, M.; Kuposov, A. Y.; Tretyakova, I. N.; Polshin, E. V.; Loim, N. M.; Abramova, N. V. "Accessing of the Mixed-Valence States in the Zinc Meso-Ferrocenylporphyrin: Experimental and Theoretical Data". *Ukr. Khim. Zh.* **2005**, *69*, 79 – 85.
181. McNaughton, R. L.; Mondal, S.; Nemykin, V. N.; Basu, P.; Kirk, M. L. "Oxomolybdenum Tetrathiolates with Sterically Encumbering Ligands: Modeling the Effect of a Protein Matrix on Electronic Structure and Reduction Potentials". *Inorg. Chem.* **2005**, *44*, 8216-8222.
182. Nemykin, V. N.; Basu, P. "Oxygen Atom Transfer Reactivity from a Dioxo-Mo(VI) Complex to Tertiary Phosphines: Synthesis, Characterization, and Structure of Phosphoryl Intermediate Complexes". *Inorg. Chem.* **2005**, *44*, 7494-7502.
183. Kuposov, A. Y.; Nemykin, V. N.; Zhdankin, V. V. "Intra- and intermolecular interactions in the solid state structure of 2-iodylbenzenesulfonamides: a heptacoordinated organic iodine(v) compound". *New J. Chem.* **2005**, *29*, 998-1000.
184. Millar, A. J.; Doonan, C. J.; Smith, P. D.; Nemykin, V. N.; Basu, P.; Young, C. G. "Oxygen atom transfer in models for molybdenum enzymes: Isolation and structural, spectroscopic, and computational studies of intermediates in oxygen atom transfer from molybdenum(VI) to phosphorus(III)". *Chem. Eur. J.* **2005**, *11*, 3255-3267.
185. Nazarenko, A. Y.; Nemykin, V. N. "Pentaaquadisodium bis(triphenylcyanoborate) (caesignost)". *Acta Cryst.* **2005**, *E61*, m2317-m2319.
186. Nemykin, V. N.; Basu, P. "Energy-Dependent Electrospray Ionization Mass Spectrometric Studies of Mononuclear Metal Carbonyls". *Inorg. Chim. Acta* **2005**, *358*, 2876-2882.
187. Nemykin, V. N.; Laskin, J.; Basu, P. "Isolation, Characterization of an Intermediate in an Oxygen Atom-Transfer Reaction, and the Determination of the Bond Dissociation Energy". *J. Am. Chem. Soc.* **2004**, *126*, 8604-8605.
188. Nemykin, V. N.; Basu, P. "A bifurcated pathway of oxygen atom transfer reactions from a monooxo molybdenum(VI) complex under electrospray ionization mass spectrometric conditions". *Dalton Transactions* **2004**, 1928-193. **Research papers prior the faculty position at UMD**
189. Basu, P.; Nemykin, V. N.; Sengar, R. "Synthesis, spectroscopy, and redox chemistry of encapsulated oxo-Mo(V) centers: implications for pyranopterin-containing molybdoenzymes". *Inorg. Chem.* **2003**, *42*, 7489-7501.
190. Carrano, C. J.; Chohan, B. S.; Hammes, B. S.; Kail, B. W.; Nemykin, V. N.; Basu, P. "Donor Atom Dependent Geometric Isomers in Mononuclear Oxo-Molybdenum(V) Complexes: Implications for Coordinated Endogenous Ligation in Molybdoenzymes". *Inorg. Chem.* **2003**, *42*, 5999-6007.
191. Nemykin, V. N.; Basu, P. "A Comparative Theoretical Investigation of the Vertical Excitation Energies and the Electronic Structure of [MoVOCl₄]: Influence of Basis Set and Geometry". *Inorg. Chem.* **2003**, *42*, 4046-4056.
192. Sengar, R. S.; Nemykin, V. N.; Basu, P. "Electronic Properties of *para*-Substituted Thiophenols and Disulfides from ¹³C NMR Spectroscopy and *ab initio* Calculations: Relations to the Hammett Parameters and Atomic Charges". *New J. Chem.* **2003**, *27*, 1115-1123.
193. Mytsyk, V. M.; Nemykin, V. N.; Volkov, S. V. "Synthesis of platinum-containing octacarboxylato(phthalocyaninato)zinc". *Ukr. Khim. Zh.* **2003**, *69*, 3-8.
194. Nemykin, V. N.; Davie, S. R.; Mondal, S.; Rubie, N.; Kirk, M. L.; Somogyi, A.; Basu, P. "An Analogue System Displaying All the Important Processes of the Catalytic Cycles Involving Monooxomolybdenum(VI) and Desoxomolybdenum(IV) Centers". *J. Am. Chem. Soc.* **2002**, *124*, 756-757.
195. Kail, B.; Nemykin, V. N.; Davie, S. R.; Carrano, C. J.; Hammes, B.; Basu, P. "Synthesis, Characterization, Electrochemistry, Electronic Structure, and Isomerization of Mononuclear Oxo-Molybdenum(V) Complexes: The Serine Gate Hypothesis in the Function of DMSO Reductases". *Inorg. Chem.* **2002**, *41*, 1281-1291.
196. Kobayashi, N.; Miwa, H.; Nemykin, V. N. "Adjacent versus Opposite Type Di-Aromatic Ring-Fused Phthalocyanine Derivatives: Synthesis, Spectroscopy, Electrochemistry, and Molecular Orbital Calculations". *J. Am. Chem. Soc.* **2002**, *124*, 8007-8020.
197. Kobayashi, N.; Inagaki, S.; Nemykin, V. N.; Nonomura, T. "A novel hemiporphyrzine comprising three isoindoleimine and three thiadiazole units". *Angew. Chem., Int. Ed.* **2001**, *40*, 2710-2712.
198. Nemykin, V. N.; Kobayashi, N.; Chernii, V. Y.; Belsky, V. K. "Mössbauer, crystallographic, and density functional theoretical investigation of the electronic structure of bis-ligated low-spin iron (II) phthalocyanines". *Eur. J. Inorg. Chem.* **2001**, 733-743.
199. Kobayashi, N.; Muranaka, A.; Nemykin, V. N. "The first phthalocyanine-based dimer formed by two pyridine-Pd-pyridine bridges". *Tetrahedron Lett.* **2001**, *42*, 913-915.
200. Nemykin, V. N.; Kobayashi, N. "A tetraazaporphyrin with an intense, broad near-IR band". *Chem. Commun.* **2001**, 165-166.
201. Volkov, S. V.; Mytsyk, V. M.; Nemykin, V. N. "Method for production of phthalocyanine and its complexes". *UKR C07D487/22, C07F19/00 Patent* written in Ukrainian. **2001**.
202. Nemykin, V. N.; Polshina, A. E.; Kobayashi, N. "Diels-alder reaction of tribenzo[b,g,l]thiopheno[3,4-q]porphyrzine as a new path for porphyrzine core modification". *Chem. Lett.* **2000**, 1236-1237.
203. Nemykin, V. N.; Myshchuk, V. M. "Synthesis of novel heteronuclear phthalocyanine complexes of zinc and platinum-photosensitizers of "third generation". *Ukr. Khim. Zh. (Russ. Ed.)* **2000**, *66*, 67-70.
204. Nemykin, V. N.; Mytsyk, V. M.; Volkov, S. V.; Kobayashi, N. "Synthesis and spectroscopic properties of new phthalocyanine complexes with potentially combined photodynamic activity and cytotoxicity for photodynamic therapy". *J. Porphyrins Phthalocyanines* **2000**, *4*, 551-554.
205. Nemykin, V. N.; Tretyakova, I. N.; Volkov, S. V.; Li, V. D.; Mekhryakova, N. G.; Kaliya, O. L.; Luk'yanets, E. A. "Synthesis, structure and properties of coordination compounds of iron phthalocyanines and their analogues". *Russ. Chem. Rev.* **2000**, *69*, 325-346.

206. Nemykin, V. N.; Volkov, S. V. "Mixed-ligand complexes of lanthanides with phthalocyanine and its analogues: synthesis, structure, and spectroscopic properties". *Russ. J. Coord. Chem.* **2000**, *26*, 436-450.
207. Nemykin, V. N.; Kobayashi, N.; Mytsyk, V. M.; Volkov, S. V. "The solid phase, room-temperature synthesis of metal-free and metallophthalocyanines, particularly of 2,3,9,10,16,17,23,24-octacyanophthalocyanines". *Chem. Lett.* **2000**, 546-547.
208. Nemykin, V. N.; Polshina, A. E.; Polshin, E. V.; Kobayashi, N. "First direct calculation of the partial quadrupole splitting of ligands for the prediction of Mössbauer spectra parameters in low-spin iron (II) complexes". *Mendeleev Commun.* **2000**, 54-56.
209. Nemykin, V. N.; Polshina, A. E.; Chernii, V. Y.; Polshin, E. V.; Kobayashi, N. "Synthesis, properties and Mössbauer spectra of bisaxially co-ordinated iron(II) phthalocyanine low-spin complexes: the first semi-quantitative explanation of the influence of the character of axial ligands on the spectral parameters". *Dalton* **2000**, 1019-1025.
210. Nemykin, V. N.; Kobayashi, N.; Nonomura, T.; Luk'yanets, E. A. "Low symmetrical phthalocyanines having spectroscopic and electrochemical properties characteristic of unexpected accidental S1 state degeneracy and non-planar distortions". *Chem. Lett.* **2000**, 184-185.
211. Rozhkova, E. A.; Evstigneeva, R. P.; Nemykin, V. N. "Solution coordination chemistry of protohemin IX peptide derivatives". *J. Porphyrins Phthalocyanines* **1999**, *3*, 691-702.
212. Nemykin, V. N.; Polshina, A. E.; Chernii, V. Y.; Tretyakova, I. N.; Polshin, E. V.; Kobayashi, N. "Method of calculation of the quadrupole splitting in Mössbauer spectra of axially coordinated iron(II) phthalocyanine complexes". *Ukr. Khim. Zh. (Russ. Ed.)* **1999**, *65*, 103-108.
213. Nemykin, V. N.; Mironyuk, T. I.; Zub, V. Ya.; Volkov, S. V. "Chemochromic properties of mixed-ligand lanthanide phthalocyanine complexes with phthalocyanine cation-radical". *Ukr. Khim. Zh. (Russ. Ed.)* **1998**, *64*, 75-79.
214. Nemykin, V. N.; Chernii, V. Ya.; Volkov, S. V.; Bundina, N. I.; Kaliya, O. L.; Li, V. D.; Lukyanets, E. A. "Further studies on the oxidation state of iron in \square -oxo dimeric phthalocyanine complexes". *J. Porphyrins Phthalocyanines* **1999**, *3*, 87-98.
215. Kondratenko, N. V.; Tretyakova, I. N.; Luk'yanets, E. A.; Volkov, S. V.; Orlova, R. K.; Nemykin, V. N.; Yagupolskii, L. M. "Synthesis and characterization of polyfluoroalkoxysulfonyl phthalonitriles and corresponding zinc and cobalt phthalocyanines". *Dyes Pigments* **1999**, *41*, 101-109.
216. Nemykin, V. N.; Chernii, V. Ya.; Pol'shin, E. V.; Kostromina, N. A.; Volkov, S. V. "Electronic and Mössbauer spectra of biaxial complexes of iron (II) phthalocyanine with aliphatic and alicyclic amines". *Ukr. Khim. Zh. (Russ. Ed.)* **1997**, *63*, 75-84.
217. Nemykin, V. N.; Chernii, V. Ya.; Trachevskii, V. V.; Volkov, S. V. "Proton NMR study of complexation of iron (II) phthalocyanine with aliphatic amines in solutions". *Ukr. Khim. Zh. (Russ. Ed.)* **1997**, *63*, 3-6.
218. Nemykin, V. N.; Chernii, V. Y.; Volkov, S. V. "Synthesis and characterization of new mixed-ligand lanthanide-phthalocyanine cation radical complexes". *J. Chem. Soc., Dalton Trans.* **1998**, 2995-3000.
219. Kondratenko, N. V.; Nemykin, V. N.; Lukyanets, E. A.; Kostromina, N. A.; Volkov, S. V.; Yagupolskii, L. M. "The synthesis and properties of some polyfluoroalkoxy substituted phthalocyanines". *J. Porphyrins Phthalocyanines* **1997**, *1*, 341-347.
220. Nemykin, V. N.; Kostromina, N. A.; Volkov, S. V. "Synthesis and spectroscopic characteristics of some mixed-ligand octaphenyltetraazaporphyrin lutetium complexes". *Ukr. Khim. Zh. (Russ. Ed.)* **1997**, *63*, 3-6.
221. Evstigneeva, R. P.; Rozhkova, E. A.; Nemykin, V. N.; Voronov, S. A.; Zheltukhina, G. A. "Nonplanar distortion modes for C-aminoacyl derivatives of protohemin IX". *Dokl. Akad. Nauk* **1997**, *356*, 642-644.
222. Nemykin, V. N.; Voloshin, Y. Z.; Subbotin, N. B. "Method for production of phthalocyanine and its complexes". *RU 2061696 C1 19960610 Patent* written in Russian. **1996**.
223. Nemykin, V. N.; Subbotin, N. B.; Kostromina, N. A.; Volkov, S. V. "Synthesis and properties of some rare earth 1,2-naphthalocyanines". *Ukr. Khim. Zh. (Russ. Ed.)* **1995**, *61*, 3-7.
224. Nemykin, V. N.; Tsivadze, A. Yu.; Subbotin, N. B.; Kostromina, N. A.; Volkov, S. V. "Synthesis and spectra of the mixed-ligand monophthalocyanine complexes of rare-earth elements with bidentate oxygen-containing ligands". *Russ. J. Coord. Chem. (Transl. of Koord. Khim.)* **1996**, *22*, 297-302.
225. Nemykin, V. N.; Kostromina, N. A.; Subbotin, N. B.; Volkov, S. V. "Synthesis and physicochemical properties of highly soluble lanthanide tetra-tert-butyl-2,3-naphthalocyanine complexes". *Izv. Akad. Nauk, Ser. Khim.* **1996**, 99-102.
226. Nemykin, V. N.; Kostromina, N. A.; Volkov, S. V. "Synthesis and study of chemichromic properties of high-soluble dysprosium bis(tetra-tert-butyl-naphthalocyaninate)". *Izv. Akad. Nauk, Ser. Khim.* **1995**, 1963-1965.
227. Kostromina, N. A.; Chernii, V. Ya.; Nemykin, V. N.; Komarov, I. V. "Complex compounds of phthalocyanineiron(II) with amines". *Zh. Neorg. Khim.* **1995**, *40*, 1491-1495.
228. Nemykin, V. N.; Subbotin, N. B.; Kostromina, N. A.; Volkov, S. V.; Luk'yanets, E. A. "Synthesis and properties of asymmetrical dinaphthodibenzoporphyrine complexes with D_{2h} symmetry of the ligand". *Zh. Neorg. Khim.* **1995**, *40*, 1183-1188.
229. Nemykin, V. N.; Kostromina, N. A.; Volkov, S. V. "Synthesis of lutetium octaalkylthiotetraazaporphyrins". *Izv. Akad. Nauk, Ser. Khim.* **1995**, 572-573.
230. Nemykin, V. N.; Subbotin, N. B.; Kostromina, N. A.; Volkov, S. V. "New, non-symmetrical 2:2 phthalocyanines. 1,2,3,4,15,16,17,18-Octaphenyl-9-23(24)-dinitrophthalo- and 1,2,3,4,19,20,21,22-octaphenyldiphthalo-11,29(30)-di-tert-butyl-dinaphthalocyanine copper complexes". *Mendeleev Commun.* **1995**, 71-72.
231. Komarov, I. V.; Nemykin, V. N.; Subbotin, N. B. "New selective shift reagents for primary aliphatic amines on the basis of monophthalocyanine lanthanide complexes". *Appl. Magn. Reson.* **1993**, *4*, 377-382.
232. Subbotin, N. B.; Nemykin, V. N.; Voloshin, Y. Z. "A synthesis of novel non-symmetrical phthalocyanines". *Mendeleev Commun.* **1993**, 121-122.

233. Brusilovets, A. I.; Rusanov, E. B.; Nemykin, V. N. "Reaction of titanium alkoxides with the N,N-bis(trimethylsilyl)amide-N'-tert-butylimide of thiophosphonic acid". *Zh. Obshch. Khim.* **1989**, *59*, 1893-1894.