

## Schriftenverzeichnis

ein Korrespondenzautor ist mit \* gekennzeichnet

1. Dutta, S.; Flottmann, B.; Heilemann, M.; Mokhir, A. **Hybridization and reaction-based, fluorogenic nucleic acid probes**, *Chemical Communications* (2012), 47, 9664-9666.
2. Hagen, H.; Marzenell, P.; Jentsch, E.; Wenz, F.; Veldwijk, M. R.; Mokhir, A.\* **Aminoferrocene-Based Prodrugs Activated by Reactive Oxygen Species**, angenommen zur Publikation in *J. Med. Chem.*, (2012), 55(2), 924-934.
3. Krämer, R.\* und Mokhir, A. **Metal Complex Derivatives of Peptide Nucleic Acids** in "Interplay between Metal Ions and Nucleic Acids", Vol. 10 of 'Metal Ions in Life Sciences', A. Sigel, H. Sigel, R. K. O. Sigel, Eds.; Springer Science + Business Media B.V., Dordrecht, 2012, chapter 12, pp. 319-340.
4. Arian, D.; Kovbasyuk, L.; Mokhir, A.\* **Control of the Photocatalytic Activity of Bimetallic Complexes of Pyropheophorbide-a by Nucleic Acids**, *Inorg. Chem.*, (2011), 50(23), 12010-12017.
5. Arian, D.; Kovbasyuk, L.; Mokhir, A.\* **1,9-Di(alkoxy)anthracene as a Singlet Oxygen-Sensitive Linker**, *J. Am. Chem. Soc.* (2011), 133(11), 3972-3980.
6. Dutta, S.; Mokhir, A.\* **An autocatalytic chromogenic and fluorogenic photochemical reaction controlled by nucleic acids**, *Chem. Comm.* (2011), 47(4), 1243-1245
7. Helmig, S.; Rotaru, A.; Arian, D.; Kovbasyuk, L.; Arnbjerg, J.; Ogilby, P.R.; Kjems, J.; Mokhir, A.; Besenbacher, F.; Gothelf, K.V.\* **Single Molecule AFM Studies of Photosensitized Singlet Oxygen Behavior on a DNA Origami Template**, *ACS Nano*. (2010), 4(12), 7475-7480.
8. Rotaru, A.; Dutta, S. Jentsch, E.; Gothelf, K. V.; Mokhir, A.\* **Selective dsDNA-templated formation of copper nanoparticles in solution**. *Angew. Chem.* (2010), 122(33), 5799-5802.
9. Fülöp, A.; Peng, X.; Greenberg, M.M.; Mokhir, A.\* **A nucleic acid directed, red light- induced chemical reaction**. *Chem. Comm.* (2010), 46, 5659-5661.
10. Voigt, N.V.; Tørring, T.; Rotaru, A.; Jacobsen, M.F.; Ravnsbæk, J.B.; Subramani, R.; Mamdouh, W.; Kjems, J.; Mokhir, A.; Besenbacher, F.; Gothelf, K.V.\* **Single Molecule Chemical Reactions on DNA Origami**. *Nature Nanotech.* (2010), 5, 200-203.
11. Arian, D.; Cló, E.; Gothelf, K.V.; Mokhir, A.\* **A nucleic acid dependent chemical photocatalysis in live cells**. *Chem., Eur. J.* (2010), 16(1), 288-295.
12. Jentsch, E.; Mokhir, A.\* **A fluorogenic nucleic acid directed click reaction**. *Inorg. Chem.* (2009), 48(20), 9593-9595.
13. Fülöp, A.; Arian, D.; Lysenko, A.; Mokhir, A.\* **A simple method for monitoring protein-DNA interactions**. *Bioorg. Med. Chem. Lett.* (2009), 19(11), 3104-3107.

14. Kovács, J.; Jentsch, E.; Mokhir, A.\* **Cu<sup>2+</sup> Controlled Hybridization of Peptide Nucleic Acids.** *Inorg. Chem.* (2008), 47(24), 11965-11971.
15. Kovács, J.; Mokhir, A.\* **Nucleic acid controlled carboxylic ester hydrolysis.** *Bioorg. Med. Chem. Lett.* (2008), 18(21), 5722-5724.
16. Rotaru, A.; Kovács, J.; Mokhir, A.\* **Red light activated phosphorothioate oligodeoxyribonucleotides.** *Bioorg. Med. Chem. Lett.* (2008), 18(15), 4336-4338.
17. Kovács, J.; Mokhir, A.\* **Catalytic hydrolysis of esters of 2-hydroxypyridine derivatives for Cu<sup>2+</sup> detection.** *Inorg. Chem.* (2008), 47(6), 1880-1882.
18. Rotaru, A.; Mokhir, A.\* **Nucleinsäurebinder, die durch Licht wählbarer Wellenlänge aktiviert werden können.** *Angew. Chem.* (2007), 119(32), 6293-6296.
19. Kiel, A.; Kovacs, J.; Mokhir, A.; Krämer, R.; Herten, D.-P.\* **Einzelmolekülfluoreszenzspektroskopische Beobachtung der Bildung und des Zerfalls individueller Metallkomplexe.** *Angew. Chem.* (2007), 119(27), 3427-3430.
20. Kiel, A.; Jaerve, A.; Kovacs, J.; Mokhir, A.; Krämer, R.; Herten, D.-P.\* **Single-molecule studies on individual metal complexes.** *Proc. SPIE* (2007), 6444.
21. Jacobsen, M.F.; Cló, E.; Mokhir, A.; Gothelf, K.V.\* **Model systems for activation of nucleic acid encoded prodrugs.** *ChemMedChem* (2007), 2(6), 793-799.
22. Gerasimchuk, N.\*; Maher, T.; Durham, P.; Domasevitch, K.V.; Wilking, J.; Mokhir, A. **Tin(IV) Cyanoximates: Synthesis, Characterization, and Cytotoxicity.** *Inorg. Chem.* (2007), 46(18), 7268-7284.
23. Kovács, J.; Rödler, T.; Mokhir, A.\* **Chemodosimeter for Cu<sup>II</sup> detection based on cyclic peptide nucleic acids.** *Angew. Chem.* (2006), 118(46), 7979-7981.
24. Boll, I.; Jentsch, E.; Krämer, R.; Mokhir, A.\* **Metal complex catalysis on a double stranded DNA template.** *Chem. Comm.* (2006), 3447-3449.
25. Boll, I.; Kovbasyuk, L.; Krämer, R.; Mokhir, A.\* **Zn<sup>2+</sup> Dependent DNA Binders Based on Terminally Modified Peptide Nucleic Acids.** *Bioorg. Med. Chem. Lett.* (2006), 16(10), 2781-2785.
26. Comba, P.\*; Krämer, R.; Mokhir, A.; Naing, K.; Schatz, E. **Synthesis of new phenanthroline-based heteroditopic ligands - highly efficient and selective fluorescence sensors for copper(II) ions.** *Eur. J. Inorg. Chem.* (2006), 21, 4442-4448.
27. Mokhir, A.\*; Kiel, A.; Herten, D.P.; Krämer, R. **Fluorescent Sensor for Cu<sup>2+</sup> with tunable emission wavelength.** *Inorg. Chem.* (2005), 44(16), 5661-5666.
28. Mokhir, A.\*; Krämer, R. **Double Discrimination by binding and reactivity in fluorescent metal sensing.** *Chem. Comm.* (2005), 2244-2246.

29. Boll, I.; Krämer, R.; Brunner, J.; Mokhir, A.\* **Templated Metal Catalysis for Single Nucleotide Specific DNA Sequence Detection.** *J. Am. Chem. Soc.* (2005), 127(21), 7849-7856.
30. Boll, I.; Krämer, R.; Mokhir, A.\* **Hybridization Dependent Cleavage of Internally Modified Disulfide-Peptide Nucleic Acids.** *Bioorg. Med. Chem. Lett.* (2005), 15(3), 505-509.
31. Mokhir, A.\*; Krämer, R.; Wolf, H. **Zn(II) Dependent Peptide Nucleic Acids Probes.** *J. Am. Chem. Soc.* (2004), 126(20), 6208-6209.
32. Mokhir, A.\*; Krämer, R.; Voloshin, Y. Z.; Varzatskii, O. A. **Synthesis and DNA Binding Properties of Dioxime – Peptide Nucleic Acids.** *Bioorg. Med. Chem. Lett.* (2004), 14(11), 2927-2930.
33. Zelder, F. H.; Mokhir, A.; Krämer, R.\* **Sequence Selective Hydrolysis of Linear DNA Using Conjugates of Zr(IV) Complexes and Peptide Nucleic Acids.** *Inorg. Chem.* (2003), 42(26), 8618-8620.
34. Brunner, J.; Mokhir, A.; Krämer, R.\* **DNA-Templated Metal Catalysis.** *J. Am. Chem. Soc.* (2003), 125(41), 12410-12411.
35. Mokhir, A.; Krämer, R.\* **Conjugates of PNA with Naphthalene Diimide Derivatives Having a Broad Range of DNA Affinities.** *Bioconj. Chem.* (2003), 14(5), 877-883.
36. Mokhir, A.; Zohm, B.; Fuessl, A.; Krämer, R.\* **Synthesis and DNA binding properties of terminally modified peptide nucleic acids.** *Bioorg. Med. Chem. Lett.* (2003), 13(15), 2489-2492.
37. Mokhir, A.; Stiebing, R.; Krämer, R.\* **Peptide nucleic acid-metal complex conjugates: facile modulation of PNA-DNA duplex stability.** *Bioorg. Med. Chem. Lett.* (2003), 13(8), 1399-1401.
38. Mokhir, A.; Gumienna-Kontecka, E.; Swiatek-Kozłowska, J.\*; Petkova, E. G.; Fritsky, I. O.; Jerzykiewicz, L.; Kapshuk, A. A.; Sliva, T. Yu. **Study of complex formation with 2-hydroxyiminocarboxylates: specific metal binding ability of 2-(4-methylthiazol-2-yl)-2-(hydroxyimino)acetic acid.** *Inorg. Chim. Acta* (2002), 329, 113-121.
39. Mokhir, A.; Connors, W.H.; Richert, C.\* **Synthesis and monitored selection of nucleotide surrogates for binding T:A base pairs in homopurine-homopyrimidine DNA triple helices.** *Nucleic Acids Res.* (2001), 29(17), 3674-3684.
40. Mokhir, A.; Tetzlaff, C. N.; Herzberger, S.; Mosbacher, A.; Richert, C.\* **Monitored Selection of DNA-Hybrids Forming Duplexes with Capped Terminal C:G Base Pairs.** *J. Comb. Chem.* (2001), 3(4), 374-386.
41. Kryatova, O. P.; Connors, W. H.; Blecziński, C. F.; Mokhir, A.; Richert, C.\* **A 2'-Acylamido Cap That Increases the Stability of Oligonucleotide Duplexes.** *Org. Lett.* (2001), 3(7), 987-990.

42. Mokhir, A.; Richert, C.\* **Synthesis and monitored selection of 5'-nucleobase-capped oligodeoxyribonucleotides.** *Nucleic Acids Res.* (2000), 28(21), 4254-4265.
43. Domasevitch, K. V.; Gerasimchuk, N. N.;\* Mokhir, A. **Organoantimony(V) Cyanoximates: Synthesis, Spectra and Crystal Structures.** *Inorg. Chem.* (2000), 39(6), 1227-1237.
44. Frits'kyi, M. M.;\* Skopenko, V. V.; Dudarenko, M. M.; Mokhir, A. **Crystal structure of the copper(II) anionic complex with 2-hydroxyimino-2-cyanoacetamide.** *Dop. Nat. Akad. Nauk Ukr.* (1999), (12), 149-152.
45. Mokhir, A.; Domasevich, K. V.; Dalley, N. K.; Kou, Xiaolan; Gerasimchuk, N. N.;\* Gerasimchuk, O. A. **Syntheses, crystal structures and coordination compounds of some 2-hetarylcyanoximes.** *Inorg. Chim. Acta* (1999), 284(1), 85-98.
46. Mokhir, A.; Vilaplana, R.; Gonzalez-Vilchez, F.; Fritsky, I. O.;\* Domasevitch, K. V.; Dudarenko, N. M. **The bidentate bonding mode of bis[2-oximinocyanacetamido(2-)-N,N]nickelate(II) anion towards tetraphenylantimony(V): unusually long Sb-O contact.** *Polyhedron* (1998), 17(16), 2693-2697.
47. Gerasimchuk, N. N.; Mokhir, A.; Rodgers, K. R.\* **Synthesis and Characterization of Dimeric Mutually Coordinated Magnesium meso-2-Pyridylporphyrins.** *Inorg. Chem.* (1998), 37(21), 5641-5650.
48. Domasevich, K. V.;\* Skopenko, V. V.; Kempe, R.; Mokhir, A. A.; Siler, J.; Hoier, E. **Tetraphenylantimony(V) 2-isonitroso-2-(4-methyl-2-thiazolyl)acetamide: synthesis, crystal structure, and molecular structure.** *Russ. J. Inorg. Chem.* (1998), 43(2), 246-249.
49. Skopenko, V.V.; Domasevitch, K.V.;\* Mokhir, A. A.; Rusanov, E.B. **“Crystal and molecular structure of a Tl(I) (4-methylthiazolyl-2)cyanoximate complex with cisanti- cis-dicyclohexano-18-crown-6”** *J. Coord. Chem.* (1997), 41(1-2), 13-18.
50. Domasevitch, K.V.;\* Ponomareva, V.V.; Mokhir, A.A.; Rusanov, E.B.; Sieler, J.; Hoyer, E. **The phenomenon of intramolecular attractive S..O interactions. Synthesis and structure of (1,10-phenanthroline)copper(II) complexes with isonitroso(4-methylthiazol-2-yl)acetamide and isonitroso(4-methylthiazol-2-yl)(benzothiazol-2-yl)methanide.** *Z. Naturforsch., B: Chem. Sci.* (1997), 52(3), 323-330.
51. Domasevich, K.V.;\* Skopenko, V.V.; Mokhir, A.A.; Rusanov E.B. **The properties of (4-methylthiazolyl-2)cyanooximate ion as a ligand.** *Russ. J. Coord. Chem.* (1997), 23(3), 211-215.
52. Sliva, T.Y.; Duda, A.M.; Glowiak, T.; Fritsky, I.O.; Amirkhanov, V.M.; Mokhir, A.A.; Kozlowski, H.\* **Coordination ability of amino acid oximes. Potentiometric, spectroscopic and structural studies of complexes of 2-cyano-2-(hydroxyimino)acetamide.** *J. Chem. Soc., Dalton Trans.* (1997), 2, 273-276.

53. Domasevich, K.V.;\* Mokhir, A.A.; Rusanov, E.B. **Quantum-chemical calculation and structure of the anion derived from 2-nitroso-2-(4-methylthiazol-2-yl)acetamide in the salt [(C<sub>6</sub>H<sub>5</sub>)<sub>4</sub>As]{X}·4H<sub>2</sub>O**. *Russ. J. Gen. Chem.* (1996), 66(9), 1463-1466.
54. Skopenko, V.V.; Mokhir, A.A.; Domasevych, K.V.\* **Crystal and molecular structure of 2-hydroxyimino-2-(4-methyl-2-thiazolyl)acetamide**. *Dop. Nat. Akad. Nauk Ukr.* (1995), 7, 117-119.
55. Domasevich, K.V.;\* Rusanov, E.B.; Yudin, E.K.; Kruglyak, D.M.; Mokhir, A.A. **Coordination compounds of nickel(II) with oxime derivatives of malonodiamide, thiazolinyl- and thiazolylacetamide**. *Russ. J. Inorg. Chem.* (1995), 40(11), 1805-1809.
56. Mokhir, A.A.; Polovinko, V.V.; Domasevich, K.V.\* **Synthesis and NMR spectra of novel heterocyclic cyanooximes - thiazole derivatives**. *Russ. J. Gen. Chem.* (1995), 65(6), 947-949.
57. Domasevich, K.V.;\* Mokhir, A.A.; Kruglyak, D.M.; Yudin, E.K. **Synthesis, NMR spectra and structure of oximes - thiazolylacetamide derivatives**. *Russ. J. Gen. Chem.* (1995), 65(6), 940-946.