

List of research publications by Andrei N. Vedernikov
In the reverse chronological order

81. Vedernikov, A.N., "Direct Functionalization of M-C (M = Pt^{II}, Pd^{II}) Bonds Using Environmentally Benign Oxidants, O₂ and H₂O₂", *Acc. Chem. Res.* DOI: 10.1021/ar200191k (invited review paper).
80. Khusnutdinova, J.R.; Newman, L.; Vedernikov, A.N. "Selective and Efficient Oxidation of Ethylene to Ethylene Glycol Acetates with H₂O₂ Catalyzed by Pd(OAc)₂ – Di(2-pyridyl)ketone – Di(2-pyridyl)methanesulfonate System", *J. Organomet. Chem.* **2011**, 696, 3998-4006 (Invited paper honoring Prof. K.G. Caulton).
79. Khusnutdinova, J.R.; Zavalij, P.Y.; Vedernikov, A.N. "Allylic C-H Deprotonation of Olefins with Pt^{II}(OH) to Form η³-Allyl Pt^{II} Complexes in Water and Aprotic Organic Solvents", *Organometallics* **2011**, 30, 3392-3399.
78. Khusnutdinova, J.R.; Maiorana, A.S.; Zavalij, Vedernikov, A.N. "Stoichiometric Aerobic Aminohydroxylation of Ethylene Mediated by dpms – Platinum Complexes (dpms = di(2-pyridyl)methanesulfonate)", *Inorg. Chim. Acta* **2011**, 369, 274-286. (Invited paper honoring Prof. R.G. Bergman).
77. Vedernikov, A.N. "C-O Reductive Elimination from High Valent Pt and Pd Centers" In *Topics in Organometallic Chemistry*. Springer: **2010**, 31(C-X Bond Formation), 101-121.
76. Oloo, W.N.; Zavalij, P.Y.; Zhang, J.; Khaskin, E.; Vedernikov, A.N. "Preparation and C-X Reductive Elimination Reactivity of Monoaryl Pd^{IV}-X Complexes in Water (X = OH, OH₂, Cl, Br)", *J. Am. Chem. Soc.* **2010**, 132, ASAP ACS publication.
75. Yahav-Levi, A.; Goldberg, I.; Vigalok, A.; Vedernikov, A.N. "Aryl-Bromide Reductive Elimination from an Isolated Pt(IV) Complex", *Chem. Comm.* **2010**, 46, 3324-3326.
74. Khaskin, E.; Lew, D.L.; Pal, S.; Vedernikov, A.N. "Catalytic Transfer Dehydrogenation of Alkanes with a Group 10 Metal Center", *Chem. Comm.*, **2009**, 6270-6272.
73. Vedernikov, A.N. "Ligand-enabled Pt^{II}-C(sp³) bond functionalization with dioxygen as direct oxidant" *Chem. Comm.*, **2009**, 4781-4790 (Invited Feature Article).
72. Khusnutdinova, J.R.; Zavalij, P.Y.; Vedernikov, A.N. "Study of Aerobic Oxidation of Phenyl Pt^{II} Complexes (dpms)Pt^{II}Ph(L) (dpms = di(2-pyridyl)methanesulfonate; L = Water, Methanol, Aniline)", *Can. J. Chem.* **2009**, *accepted* (invited paper/special issue dedicated to Prof. Richard J. Puddephatt).
71. Khaskin, E.; Zavalij, P.Y.; Vedernikov, A.N. "Bidirectional Transfer of Phenyl and Methyl Groups between Pt^{IV} and B in Platinum Dipyridylborato Complexes", *J. Am. Chem. Soc.* **2008**, 130, 10088-10089.
70. Zhang, J.; Khaskin, E.; Anderson, N.P.; Vedernikov, A.N. "Catalytic Aerobic Oxidation of Substituted 8-Methylquinolines in Pd^{II} – 2,6-Pyridinedicarboxylic Acids Systems", *Chem. Comm.* **2008**, 3625-3627.
69. Khusnutdinova, J.R.; Newman, L.; Zavalij, P.Y.; Lam, Y.-F.; Vedernikov, A.N. "Direct C(sp³)-O Reductive Elimination of Olefin Oxides from Pt^{IV}-Oxetanes Prepared by Aerobic Oxidation of Pt^{II} Olefin Derivatives (Olefin = *cis*-Cyclooctene, Norbornene)", *J. Am. Chem. Soc.* **2008**, 130, 2174-2175.
68. Yahav-Levi, A.; Goldberg, I.; Vigalok, A.; Vedernikov, A.N. "Competitive Aryl-Iodide vs. Aryl-Aryl Reductive Elimination Reactions In Pt(IV) Complexes: Experimental and Theoretical Studies", *J. Am. Chem. Soc.* **2008**, 130, 724-731.
67. Khaskin, E.; Zavalij, P.Y.; Vedernikov, A.N. "Facile Oxidatively Induced Methyl Transfer from Boron to Platinum in Dimethyldi(2-pyridyl)borato Platinum Complexes", *Angew. Chem. Int. Edit.* **2007**, 46, 6309-6312.

66. Vedernikov, A.N. "Recent Advances in the Platinum-mediated CH Bond Functionalization", *Curr. Org. Chem.* **2007**, *11*, 1401-1416.
65. Khusnutdinova, J.R.; Zavalij, P.Y.; Vedernikov, A.N. "C-O Coupling of $\text{LPt}^{\text{IV}}\text{Me}(\text{OH})\text{X}$ Complexes in Water ($\text{X} = {}^{18}\text{OH}, \text{OH}, \text{OMe}$; $\text{L} = \text{di}(2\text{-pyridyl})\text{methane sulfonate}$)", *Organometallics* **2007**, *26*, 3466-3483.
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