

List of publications: Dr. Thomas Weyhermüller

2020

- Voit, G., Jenthra, S., Hölscher, M., **Weyhermüller, T.**, Leitner, W. (2020). Reversible Insertion of Carbon Dioxide at Phosphine Sulfonamido Pd^{II}-Aryl Complexes *Organometallics* 39(24), 4465-4473. <https://doi.org/10.1021/acs.organomet.0c00560>
- Levin, N., Peredkov, S., **Weyhermüller, T.**, Rüdiger, O., Pereira, N.B., Grötzsch, D., Kalinko, A., DeBeer, S. (2020). Ruthenium 4d-to-2p X-ray Emission Spectroscopy: A Simultaneous Probe of the Metal and the Bound Ligands *Inorganic Chemistry* 59(12), 8272-8283. <https://doi.org/10.1021/acs.inorgchem.0c00663>
- Cramer, H.H., Chatterjee, B., **Weyhermüller, T.**, Werlé, C., Leitner, W. (2020). Controlling the Product Platform of Carbon Dioxide Reduction: Adaptive Catalytic Hydrosilylation of CO₂ Using a Molecular Cobalt(II) Triazine Complex *Angewandte Chemie International Edition* 59(36), 15674-15681. <https://doi.org/10.1002/anie.202004463>
- Erken, C., Hindemith, C., **Weyhermüller, T.**, Hölscher, M., Werlé, C., Leitner, W. (2020). Hydroamination of Aromatic Alkynes to Imines Catalyzed by Pd(II)-Anthraphos Complexes *ACS Omega* 5(15), 8912-8918. <https://doi.org/10.1021/acsomega.0c00562>
- Dutta, D., Kundu, S., **Weyhermüller, T.**, Ghosh, P. (2020). Metal promoted conversion of aromatic amines to *ortho*-phenylenediimine derivatives by a radical coupling path *Dalton Transactions* 49(16), 5015-5019. <https://doi.org/10.1039/D0DT00089B>
- Dinda, S., Patra, S.C., Roy, S., Halder, S., **Weyhermüller, T.**, Pramanik, K., Ganguly, S. (2020). Coligand driven diverse organometallation in benzothiazolyl-hydrazone derivatized pyrene: *ortho* vs *peri* C-H activation *New Journal of Chemistry* 44(4), 1407-1417. <https://doi.org/10.1039/c9nj05088d>

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- Yogendra, S., **Weyhermüller, T.**, Hahn, A.W., DeBeer, S. (2019). From Ylides to Doubly Ylidiide-Bridged Iron(II) High Spin Dimers via Self-Protolysis *Inorganic Chemistry* 58(14), 9358-9367. <https://doi.org/10.1021/acs.inorgchem.9b01086>
- Kalläne, S.I., Hahn, A.W., **Weyhermüller, T.**, Bill, E., Neese, F., DeBeer, S., van Gastel, M. (2019). Spectroscopic and Quantum Chemical Investigation of Benzene-1,2- dithiolate-Coordinated Diiron Complexes with Relevance to Dinitrogen Activation *Inorganic Chemistry* 58(8), 5111-5125. <https://doi.org/10.1021/acs.inorgchem.9b00177>
- Bhand, S., Landem D.N., Pereira, E., Gejji, S.P., **Weyhermüller, T.**, Chakravarty, D., Puranik, V.G., Salunke-Gawali, S. (2019). Amphiphilic polypyridyl ruthenium complexes: Synthesis, Characterization and Aggregation studies *Polyhedron* 164, 96-107. <https://doi.org/10.1016/j.poly.2019.02.035>
- Römelt, C., **Weyhermüller, T.**, Wieghardt, K. (2019). Structural characteristics of redox-active pyridine-1,6-diimine complexes: Electronic structures and ligand oxidation levels *Coordination Chemistry Reviews* 380, 287-317. <https://doi.org/10.1016/j.ccr.2018.09.018>

- Wang, M., Römelt, C., **Weyhermüller, T.**, Wieghardt, K. (2019). Coordination Modes, Oxidation, and Protonation Levels of 2,6-Pyridinediimine and 2,2':6',2''-Terpyridine Ligands in New Complexes of Cobalt, Zirconium, and Ruthenium. An Experimental and Density Functional Theory Computational Study *Inorganic Chemistry* 58(1), 121-132. <https://doi.org/10.1021/acs.inorgchem.8b01949>

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- Kundu, S., Dutta, D., Maity, S., **Weyhermüller, T.**, Ghosh, P. (2018). Proton-Coupled Oxidation of a Diarylamine: Amido and Aminyl Radical Complexes of Ruthenium(II) *Inorganic Chemistry* 57(19), 11948-11960. <https://doi.org/10.1021/acs.inorgchem.8b01401>
- Levin, N., Codesido N.O., Marcolongo, J.P., Alborés, **Weyhermüller, T.**, Olabe, J.A., Slep, L.D. (2018). Remarkable Changes of the Acidity of Bound Nitroxyl (HNO) in the [Ru(Me₃[9]aneN₃)(L²)(NO)]ⁿ⁺ Family (n = 1-3). Systematic Structural and Chemical Exploration and Bioinorganic Chemistry Implications *Inorganic Chemistry* 57(19), 12270-12281. <https://doi.org/10.1021/acs.inorgchem.8b01958>
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- Römelt, C., Ye, S., Bill, E., **Weyhermüller, T.**, van Gestel, M., Neese, F. (2018). Electronic Structure and Spin Multiplicity of Iron Tetraphenylporphyrins in their Reduced States as Determined by a Combination of Resonance Raman Spectroscopy and Quantum Chemistry *Inorganic Chemistry* 57(4), 2141-2148. <https://doi.org/10.1021/acs.inorgchem.7b03018>

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