

List of publications Kenneth Wärnmark

- 108) "Photophysical Integrity of the Iron(III) Scorpionate Framework in Iron(III)-NHC Complexes with Long-lived ²LMCT Excited States" Prakash, O.; Lindh, L.; Kaul, N.; Rosemann, N. W.; Bolaño Losada, I.; Johnson, C.; Chábera, P.; Ilic, A.; Schwarz, J.; Kumar Gupta, A.; Uhlig, J.; Ericsson, T.; Häggström, L.; Huang, P.; Bendix, J.; Strand, D.; Yartsev, A.; Lomoth, R.; Persson, K.; Wärnmark, K. *Inorg. Chem.* **2022** accepted.
- 107) "Simultaneous non-invasive gas analysis in artificial photosynthesis reactions using rotational Raman spectroscopy" Schwarz, J.; Ilic, A.; Kaufhold, S.; Ahokas, J.; Myllyperkiö, P.; Persson, M.; Wärnmark, K. *Sustain. Energy Fuels* **2022**, 6, 4388-4392.
- 106) "Photoredox Catalysis via Consecutive ²LMCT and ³MLCT Excitation of an Fe(III/II)-N-Heterocyclic Carbene Complex" by Aleksandra Ilic, Jesper Schwarz, Catherine Johnson, Lisa H. M. de Groot, Simon Kaufhold, Reiner Lomoth, and Kenneth Wärnmark *Chem. Sci.* **2022**, 13, 9165-9175.
- 105) "High Turnover Photocatalytic Hydrogen Formation with an Fe(III) N-Heterocyclic Carbene Photosensitizer" Schwartz, J.; Ilic, Johnson, C.; Lomoth, R.; Wärnmark, K. *Chem. Commun.* **2022**, 58, 5351-5354.
- 104) "The long-awaited synthesis and self-assembly of a small rigid C₃ symmetric trilactam" Li, Y., Strand, D.; Grimme, S.; Jónsson, S.; Wärnmark, K. *Chem. Commun.* **2022**, 58, 3751-3754.
- 103) "Counter Intuitive electrostatics upon Metal Ion Coordination to a Receptor with Two Homotopic binding sites" Aspelin, V.; Lidskog, A.; Solano Arribas, C.; Hervø-Hansen, S.; Stenqvist, B.; Chudoba, R.; Wärnmark, K.;[§] Lund, M.[§] *J. Am. Chem. Soc.* **2022** accepted. [§] = equal contribution
- 102) "Dye-Sensitized Solar Cells based on Fe N-heterocyclic Carbene Photosensitizers with Improved Rod-like Push-Pull Functionality" L. Lindh, O. Gordivska, S. Persson, H. Michaels, Hao Fan, P. Chábera, N. W. Rosemann, A. Kumar Gupta, I. Benesperi, J. Uhlig, O. Prakash, E. Sheibani, K. S. Kjaer, G. Boschloo, A. Yartsev, M. Freitag, R. Lomoth, P. Persson, and K. Wärnmark *Chem. Sci.* **2021**, 12, 16035-16053.
- 101) "Resonant X-ray photo-oxidation of light-harvesting iron (II/III) N-heterocyclic carbene complexes" Temperton, R. H.; Guo, M.; D'Acunto, G.; Johansson, N.; Rosemann, N. W.; Prakash, O.; Wärnmark, K.; Schnadt, J.; Uhlig, J., Persson, P. *Scientific Reports*, **2021**:22144
- 100) "Experimental and Computational Models for Side Chain Discrimination in Peptide-Protein Interactions" A. Lidskog, S. Dawaigher, C. Solano Arribas, A. Ryberg, J. Jensen, K. E. Bergquist, A. Sundin, P.-O. Norrby, and K. Wärnmark *Chem. Eur. J.* **2021**, 27, 10883-10897.

- 99) "Microsecond Photoluminescence and Photoreactivity of a metal-Centered Excited state in a Hexacarbene-Co(III) complex" Kaufhold, S.; Rosemann, N. W.; Cabera, P.; Lindh, L.; Bolano, L.; Losada, I.; Uhlig, J.; Pascher, T.; Strand, D.; Wärnmark, K.; Yartsev, A.; Persson, P. *J. Am. Chem. Soc.* **2021**, *143*, 1307-1312.
- 98) "Photofunctionality of iron(III) *N*-heterocyclic carbenes and related d^5 transition metal complexes" Chábera, P.; Lindh, L.; Rosemann, N. W.; Prakash, O.; Uhlig, J.; Yartsev, A.; Wärnmark, K.; Sundström, V.; Persson, P. *Coord. Chem. Rev.* **2020**, *426*, Article number 21357.
- 97) „Asymmetric Ring-Opening of Epoxides Catalyzed by Metal–Salen Complexes" Anna Lidskog, Yutang Li and Kenneth Wärnmark *Catalysts* **2020**, *10*, 705.
- 96) "Mono *endo*-6-*N,N*-Diethylcarbamoyl and Bis *endo,endo*-6,12-*N,N*-Diethylcarbamoyl Derivatives of Tröger's Base. Synthesis and *Exo-Endo* Isomerization Study" S. Dawaigher, E. Lindbäck, D. Strand, A. Cederbalk, S. Winikoff, M. Harmata, Victor Snieckus, K. Wärnmark *ARKIVOC* **2020**, part (vii) , 68-81 (JB-11183KP).
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- 92) "HERFD-XANES probes for electronic structures of iron^{II/III} carbene complexes" Guo, M. Prakash, O.; Fan, H. e Groot, L.; Hlynsson Freyr, H.; Kaufhold, S.; Gordivska, O.; Velasquez, N, Cábera, P.; Glatzer, P.; Wärnmark, K.; Persson, P. Uhlig. *J. Physical chemistry chemical physics: PCCP* **2020**, *22*, 9067-9073.
- 91) "Site-Selective Orbital Interactions in an Ultrathin Iron Carbene Photosensitizer Film" Temperton, R.; Rosemann, N.; Guo, M.; Johansson, N.; Fredin, L.; Prakash, O.; Wärnmark, K.; Handrup, K.; Uhlig, J.; Schnadt, J.; Persson, P. *J. of Phys. Chem. Part A.* **2020**, *123*, 1603-1609.
- 90) "Vibrational wavepacket dynamics in Fe carbene photosensitizer determined with femtosecond X-ray emission and scattering" K. Kunnus, M. Vacher, T. C. B. Harlang, K. S. Kjær, K. Haldrup, E. Biasin, T. B. van Driel, M. Pápai, P. Chabera, Y. Liu, H. Tatsuno, C. Timm, E. Källman, M. Delcey, R. W. Hartsock, Marco E. Reinhard, Sergey Koroidov, Mads G. Laursen, F. B. Hansen, P. Vester, M. Christensen, Lise Sandberg, Z. Németh, D. Sárosiné Szemes, É. Bajnóczi, R. Alonso-Mori, J. M. Glowia, S. Nelson, M. Sikorski, D. Sokaras, H. T. Lemke, S. E. Canton,

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- 87) "Hot Branching Dynamics in a Light-Harvesting Iron Carbene Complex Revealed by Ultrafast X-ray Emission Spectroscopy" H. Tatsuno, K. S. Kjær, K. Kunnus, T. C. B. Harlang, C. Timm, M. Guo, P. Chábera, L. A. Fredin, R. W. Hartsock, M. E. Reinhard, S. Koroidov, L. Li, A. A. Cordones, O. Gordivska, O. Prakash, Y. Liu, M. G. Laursen, E. Biasin, F. B. Hansen, P. Vester, M. Christensen, K. Haldrup, Z. Németh, D. S. Szemes, É. Bajnóczi, G. Vankó, T. B. Van Driel, R. Alonso-Mori, J. M. Glownia, S. Nelson, M. Sikorski, H. T. Lemke, D. Sokaras, S. E. Canton, A. O. Dohn, K. B. Møller, M. M. Nielsen, K. J. Gaffney, K. Wärnmark, V. Sundström, P. Persson, and Jens Uhlig. *Angew. Chem. Int. Ed.* **2020**, *59*, 364-372.
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