List of Publications and Patents
of Prof. Dr. Martin U. Piepenbring (formerly Schmidt)

June 2025

Publications

This list also contains a few other major publications of the group of Martin U. Piepenbring, to which M.U. Piepenbring contributed, but is not listed as co-author. These publications are marked with "G".

168) Yaşar Krysiak*, Sergi Plana-Ruiz, Lothar Fink, Edith Alig, Ulrich Bahnmüller, Ute Kolb, Martin U. Schmidt*: *High temperature electron diffraction on organic crystals: in situ crystal structure determination of Pigment Orange 34*,
J. Am. Chem. Soc., **2024**, *146*, 9880-9887, https://doi.org/10.1021/jacs.3c14800.

167) Federica Bravetti, Robert Hühn, Simone Bordignon, Sylvia Reibeling, Martin U. Schmidt*: *Crystal structure and tautomeric state of Pigment Red 48:2 from X-ray powder diffraction and solid-state NMR*,
Z. Kristallogr., **2024**, *239*, 283-297, https://doi.org/10.1515/zkri-2023-0042.

166) Federica Bravetti, Lukas Tapmeyer, Kathrin Skorodumov, Edith Alig, Stefan Habermehl, Robert Hühn, Simone Bordignon, Angelo Gallo, Carlo Nervi, Michele R. Chierotti, Martin U. Schmidt*:
Leucopterin, the white pigment in butterfly wings: structural analysis by PDF fit, FIDEL fit, Rietveld refinement, solid-state NMR and DFT-D,
IUCrJ, **2023***, 10*, 448-463, doi.org/10.1107/S2052252523004281.
With figure on the title cover.

165) Jacco van de Streek*, Svetlana N. Ivashevskaya, Martin U. Schmidt:
Crystal structures of two phases of Pigment Yellow 110 from X-ray powder diffraction data,
Z. Kristallogr., **2023**, *238*, 217-223, doi.org/10.1515/zkri-2023-0003.

164) Tatiana E. Gorelik*, Sándor L. Bekö, Jaroslav Teteruk, Winfried Heyse, Martin U. Schmidt*:
Analysis of diffuse scattering in electron diffraction data for the crystal structure determination of Pigment Orange 13, $C_{32}H_{24}Cl_2N_8O_2$,
Acta Cryst. **2023**, *B79*, 122-137, doi.org/10.1107/S2052520623000720.

163) Dominik Brey, Barbara Scherer, Martin U. Schmidt*:
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Acta Cryst. **2022**, *B78*, 763-780, doi.org/10.1107/S205252062200779X.

162) Carina Schlesinger, Arnd Fitterer, Christian Buchsbaum, Stefan Habermehl, Michele R. Chierotti, Carlo Nervi, Martin U. Schmidt*:
Ambiguous structure determination from powder data: four different structural models of 4,11-di-fluoro-quinacridone with similar X-ray powder patterns, fit to the PDF, SSNMR and DFT-D,
IUCrJ, **2022**, *9*, 406-424, doi.org/10.1107/S2052252522004237.

Highlighted by a scientific commentary:
Angela Altomare:
Solving molecular compounds from powder diffraction data: are results always reliable?
IUCrJ, **2022**, *9*, 403–405, doi.org/10.1107/S2052252522006571.

161) A. I. Arns*, D. Evans, R. Schiebel, L. Fink, M. Mezger, E. Alig, J. Linckens, K. P. Jochum, M. U. Schmidt, A. Jantschke, G. H. Haug:
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Geochemistry, Geophysics, Geosystems, **2022**, *23*, e2022GC010445,
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160) Stefan Habermehl, Carina Schlesinger, Martin U. Schmidt*:
Structure determination from unindexed powder data from scratch by a global optimization approach using pattern comparison based on cross-correlation functions,
Acta Cryst., **2022**, *B78*, 195–213, doi.org/10.1107/S2052520622001500.
Highlighted by a scientific commentary:
Kenneth D. M. Harris:
Circumventing a challenging aspect of crystal structure determination from powder diffraction data,
Acta Cryst., **2022**, *B78*, 96–99, doi.org/10.1107/S2052520622003717.

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Crystal structure and morphology of the bright orange γ-phase of Pigment Red 53:2 from XRPD, DFT+D and TEM,
Dyes and Pigments, **2021**, *196*, 109456, doi.org/10.1016/j.dyepig.2021.109456.

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Acta Cryst., **2021**, *E77*, 402-405, doi.org/10.1107/S2056989021002577.

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