

Liste der Publikationen und Patente

Publikationen

- 143) D. A. Zherebtsov, M. U. Schmidt, R. Niewa, C. P. Sakthidharan, F. V. Podgornov, Y. V. Matveychuk, S. A. Nayfert, M. A. Polozov, S. N. Ivashevskaya, A. I. Stash, Yu-Sheng Chen, D. E. Zhivulin, V. E. Zhivulin, S. V. Merzlov, E. V. Bartashevich, V. V. Avdin, Hua Shu Hsui, Feng Wei Guoi:
Two new polymorphs of cis-perinone: crystal structures, physical and electric properties, Acta Cryst., **2019**, B75, 384-392.
- 142) Inês C. B. Martins, Mariana Sardo, Edith Alig, Lothar Fink, Martin U. Schmidt, Luís Mafra*, M. Teresa Duarte*:
Enhancing Adamantylamine Solubility through Salt Formation: Novel Products Studied by X-ray Diffraction and Solid-State NMR, Cryst. Growth Des., **2019**, 193, 1860-1873.
- 141) Klaus Hunger, Martin U. Schmidt, Thomas Heber, Friedrich Reisinger, Stefan Wannemacher:
Industrial Organic Pigments: Production, Crystal Structures, Properties, Applications. 4th, completely revised edition, Wiley-VCH, Weinheim, **2019**, ISBN: 978-3-527-32608-2.
- 140) Carina Schlesinger, Michael Bolte, Martin U. Schmidt*:
Challenging structure determination from powder diffraction data: two pharmaceutical salts and one cocrystal with $Z' = 2$, Z. Kristallogr., **2019**, 234, 257-268.
- 139) Miriam Heine, Lothar Fink, Martin U. Schmidt*:
3-Cyanopyridine as a bridging and terminal ligand in coordination polymers, CrystEngComm, **2018**, 20, 7556-7566.
- 138) B. Dittrich*, F. P. A. Fabbiani, J. Henn, M. U. Schmidt, P. Macchi, K. Meindl, M. A. Spackman:
Azulene revisited: solid-state structure, invariom modeling and lattice-energy minimization of a classical example of disorder, Acta Cryst. Sect. B, Struct. Sci., **2018**, B74, 416-426.
- 137) Alexander Bodach, Lothar Fink, Martin U. Schmidt*:
Crystal structures of ordered and plastic-crystalline phases of iso-butyllithium by X-ray powder diffraction, Chem. Commun., **2018**, 54, 10734-10737.

- 136) Carina Schlesinger, Lukas Tapmeyer, Silke D. Gumbert, Dragica Prill, Michael Bolte, Martin U. Schmidt, Christoph Saal*:
Bestimmung der absoluten Konfiguration pharmazeutischer Wirkstoffe durch Röntgenpulverdiffraktometrie,
Absolute Configuration of Pharmaceutical Research Compounds Determined by X-ray Powder Diffraction,
Angew. Chem., **2018**, *130*, 9289-9293,
Angew. Chem. Int. Ed., **2018**, *57*, 9150-9153.
- 135) Christian Czech, Jürgen Glinnemann, Kristoffer E. Johansson, Michael Bolte, Martin U. Schmidt*:
On the stacking disorder of DL-Norleucine,
Acta Cryst. Sect. B, Struct. Sci., **2017**, *B73*, 1075-1084.
- 134) Jérôme Roeser*, Dragica Prill, Michael J. Bojdys, Pierre Fayon, Abbie Trewin, Andrew N. Fitch, Martin U. Schmidt, Arne Thomas*:
Anionic silicate organic frameworks constructed from hexacoordinate silicon centres,
Nature Chemistry, **2017**, *9*, 977–982.
- 133) Daniela Hempler, Martin U. Schmidt, Jacco van de Streek*:
Validation of missed space-group symmetry in X-ray powder diffraction structures with dispersion-corrected density functional theory,
Acta Cryst. Sect. B, Struct. Sci., **2017**, *B73*, 756-766.
- 132) Christian Czech, Lena Kalinowsky, Martin U. Schmidt*:
Local structure and stacking disorder of chloro(phthalocyaninato)aluminium,
Acta Cryst. Sect. B, Struct. Sci., **2017**, *B73*, 744-755.
- 131) Ira V. Rozhdestvenskaya, Enrico Mugnaioli*, Marco Schowalter, Martin U. Schmidt, Michael Czank, Wulf Depmeier*, Andreas Rosenauer:
The structure of denisovite, a fibrous nanocrystalline polytypic disordered ‘very complex’ silicate, studied by a synergistic multi-disciplinary approach employing methods of electron crystallography and X-ray powder diffraction,
IUCrJ, **2017**, *4*, 223-242.
 Mit Titelbild.
- 130) Haishuang Zhao, Alexander Bodach, Miriam Heine, Yasar Krysiak, Jürgen Glinnemann, Edith Alig, Lothar Fink, Martin U. Schmidt*:
4-Cyanopyridine, a versatile mono- and bidentate ligand. Crystal structures of related coordination polymers determined by X-ray powder diffraction,
CrystEngComm, **2017**, *19*, 2216-2228.
- 129) Franziska Fischer, Martin U. Schmidt, Sebastian Greisera, Franziska Emmerling*:
The challenging case of the theophylline–benzamide cocrystal,
Acta Cryst., Sect. C, Cryst. Struct. Commun., **2016**, *72*, 217-224.
 Mit Titelbild.

- 128) Silke D. Gumbert, Meike Körbitzer, Edith Alig, Martin U. Schmidt^{*}, Michelle R. Chierotti, Roberto Gobetto, Xiaozhou Li, Jacco van de Streek:
Crystal structure and tautomerism of Pigment Yellow 138 determined by X-ray powder diffraction and solid-state NMR,
Dyes and Pigments, **2016**, *131*, 364-372.
- 127) Jaroslav L. Teteruk, Jürgen Glinnemann, Winfried Heyse, Kristoffer E. Johansson, Jacco van de Streek, Martin U. Schmidt^{*} :
Local Structure in the Disordered Solid Solution of cis- and trans-Perinones,
Acta Cryst. Sect. B, Struct. Sci., **2016**, *72*, 416-433.

- 126) Tatiana E. Gorelik^{*}, Christian Czech, Sonja M. Hammer, Martin U. Schmidt:
Crystal structure of disordered nanocrystalline α -quinacridone determined by electron diffraction,
CrystEngComm, **2016**, *18*, 529-535.
 Mit Titelbild (Innenseite).
- 125) Dragica Prill, Pavol Juhás, Simon J. L. Billinge^{*}, Martin U. Schmidt^{*} :
Towards solution and refinement of organic crystal structures by fitting to the atomic pair distribution function,
Acta Cryst. Sect. A, Foundations and Advances, **2016**, *72*, 62-72.
- 124) Jürgen Brüning, Martin U. Schmidt^{*} :
The determination of crystal structures of active pharmaceutical ingredients from X-ray powder diffraction data: a brief, practical introduction, with fexofenadine hydrochloride as example,
J. Pharm. Pharmacol., **2015**, *67*, 773-781.
- 123) C. Saal, M. Lange, C. Kuehn, H. Untenecker, A. Jonczyk, S. Peterson, G. Scholz, V. Buback, M. Dotzauer, H. Bauer, J. Foerster, J. Schumacher, A. Metz, M. Schmidt, K. Seemann:
Cilengitide – Exceptional pseudopolymorphism of a cyclic pentapeptide,
Eur. J. Pharm. Sci., **2015**, *71*, 1-11.
- 122) Sándor L. Bekö, Jan W. Bats, Martin U. Schmidt^{*} :
One-dimensional zinc(II) fumarate coordination polymers,
J. Coord. Chem., **2015**, *21*, 118-129.
- 121) Sándor L. Bekö, Christian Czech, Marcus A. Neumann, Martin U. Schmidt^{*} :
Determination of crystal structures and tautomeric states of 2-ammoniobenzenesulfonates by laboratory X-ray powder diffraction,
Z. Kristallogr., **2015**, *230*, 611-620.
- 120) Tatiana E. Gorelik^{*}, Martin U. Schmidt, Ute Kolb, Simon J. L. Billinge:
Total-Scattering Pair-Distribution Function of Organic Material from Powder Electron Diffraction Data,
Microsc. Microanal., **2015**, *21*, 459-471.
- 119) Dragica Prill, Pavol Juhás, Martin U. Schmidt^{*}, Simon J. L. Billinge^{*} :
Modelling pair distribution functions (PDFs) of organic compounds: describing both intra- and intermolecular correlation functions in calculated PDFs,
J. Appl. Cryst., **2015**, *48*, 171-178.

- 118) Martin U. Schmidt :
Nachruf: Prof. Dr. Erich F. Paulus,
GDCh Fachgruppe Analytische Chemie, Mitteilungsblatt, 2/2015, 33-34.
- 117) Philipp Mörschel, Martin U. Schmidt :
Prediction of molecular crystal structures by a crystallographic QM/MM model with full space-group symmetry,
Acta Cryst. Sect. A, Foundations and Advances, 2015, 71, 26-35.
- 116) Yasar Krysiak, Lothar Fink , Thomas Bernert, Jürgen Glinnemann, Martin Kapuscinski, Haishuang Zhao, Edith Alig, Martin U. Schmidt:
Crystal Structures and Polymorphism of Nickel and Copper Coordination Polymers with Pyridine Ligands,
Z. Anorg. Allg. Chem., 2014, 640, 3190-3196.
- 115) Susanne Wöhlert, Zbigniew Tomkowicz, Michal Rams, Stefan G. Ebbinghaus, Lothar Fink, Martin U. Schmidt, Christian Näther :
Influence of the co-Ligand on the Magnetic and Relaxation Properties of Layered Cobalt(II) Thiocyanato Coordination Polymers,
Inorg. Chem., 2014, 53, 8298-8310.
- 114) H. C. Stephen Chan , Grahame R. Woollam, Trixie Wagner, Martin U. Schmidt, Richard A. Lewis:
Can picolinamide be a promising cocrystal former?,
CrystEngComm, 2014, 16, 4365-4368.
- 113) Stefan Habermehl, Philipp Mörschel, Pierre Eisenbrandt, Sonja M. Hammer, Martin U. Schmidt :
Structure determinations from powder data without prior indexing using similarity measure based on cross-correlation functions,
Acta Cryst. Sect. B, Struct. Sci., 2014, B70, 347-359.
- 112) Jaroslav L. Teteruk, Jürgen Glinnemann, Tatiana E. Gorelik, Anthony Linden, Martin U. Schmidt:
Explanation of the stacking disorder in the β -phase of Pigment Red 170,
Acta Cryst. Sect B, Struct. Sci., 2014, B70, 296-305.
- 111) Rangana Warshamanage, Anthony Linden, Martin U. Schmidt, Hans-Beat Bürgi:
Average structures of the disordered β -phase of Pigment Red 170: a single-crystal X-ray diffraction study,
Acta Cryst. Sect. B, Struct. Sci., 2014, B70, 283-295.

- 110) Sándor L. Bekö, Edith Alig, Martin U. Schmidt, Jacco van de Streek :
On the correlation between hydrogen bonding and melting points in the inositols,
IUCrJ (Journal of the International Union of Crystallography), 2014, 1, 61-73.

- 109) Sándor L. Bekö, Silke D. Thoms, Martin U. Schmidt:
4,4'-{Diazenediylbis[(1,4-phenylene)bis(carbonyloxy)]}bis(2,2,6,6-tetramethylpiperidinyloxidanyl): the first crystal structure determination from powder data of a nitroxide radical,
Acta Cryst., Sect. C, Cryst. Struct. Commun., **2013**, C69, 1513-1515.
- 108) Sándor L. Bekö, Jan W. Bats, Edith Alig, Martin U. Schmidt:
The Influence of Different Solvents on 2-Ammonio-4-chloro-5-methylbenzenesulfonate, Including Its De- and Resulfonation,
J. Chem. Cryst., **2013**, 43, 655-663.
- 107) Susanne Wöhlert, Lothar Fink, Martin U. Schmidt, Christian Näther :
Synthesis and Characterization of New 2D Coordination Polymers based on Mn(NCS)² and Ni(NCS)² with 1,2-Bis(4-pyridyl)-ethane as Co-Ligand,
Z. Anorg. Allg. Chem., **2013**, 639, 2186-2194.
- 106) Radha Bholá, Payam Payamyar, Daniel J. Murray, Bharat Kumar, Aaron J. Teator, Martin U. Schmidt, Sonja M. Hammer, Animesh Saha, Junji Sakamoto, A. Dieter Schlüter, Benjamin T. King :
A Two-Dimensional Polymer from the Anthracene Dimer and Triptycene Motifs,
J. Am. Chem. Soc.; **2013**, 135, 14134-14141.
- 105) Susanne Wöhlert, Lothar Fink, Martin Schmidt, Christian Näther :
Exploration and synthesis of condensed coordination networks with modified magnetic properties,
CrystEngComm, **2013**, 15, 945-957.
- 104) Martin U. Schmidt , Jürgen Glínnemann:
Explanation for the stacking disorder in tris(bicyclo[2.1.1]hexeno)benzene using lattice-energy minimisations,
Z. Kristallogr.; **2012**, 227, 805-818.
- 103) Bharat Kumar, Ruth L. Viboh, Margel C. Bonifacio, William B. Thompson, Jonathan C. Buttrick, Babe C. Westlake, Min-Soo Kim, Robert W. Zoellner, Sergey A. Varganov, Philipp Mörschel, Jaroslav Teteruk, Martin U. Schmidt, Benjamin T. King :
Septulene: The Heptagonal Homologue of Kekulene,
Angew. Chem., **2012**, 124, 12967-12972,
Angew. Chem. Int. Ed., **2012**, 51, 12795-12800.
 Mit Titelbild (Rückseite/Innenseite).
- 102) Sándor L. Bekö, David Urmann, Martin U. Schmidt :

5'-Deoxy-5-Fluorouridine: Characterisation, Crystal Structure and Molecular Conformations Determined from X-Ray Powder Data,
J. Chem. Cryst., **2012**, *42*, 933-940.

- 101) Sándor L. Bekö, Sonja M. Hammer, Martin U. Schmidt :
Kristallstrukturen der Hydratstufen von Pigment Red 57:1,
Crystal Structures of the Hydration States of Pigment Red 57:1,
Angew. Chem., **2012**, *124*, 4814-4818,
Angew. Chem. Int. Ed., **2012**, *51*, 4735-4738.
 Mit Titelbild (Rückseite/Innenseite). *
- 100) Jürgen Brüning, Tanja K. Trepte, Jan W. Bats, Martin U. Schmidt :
Erythromycin A dimethyl sulfoxide disolvate 1.43-hydrate,
Acta Cryst., Sect. E, Struct. Rep. Online., **2012**, *E68*, o700-o701. *
- 99) Sándor L. Bekö, Martin U. Schmidt , Andrew D. Bond :
An experimental screen for quinoline/fumaric acid salts and co-crystals,
CrystEngComm, **2012**, *14*, 1967-1971. *
- 98) Sándor L. Bekö, David Urmann, Andrea Lakatos, Clemens Glaubitz, Martin U. Schmidt :
Nimustine hydrochloride: the first crystal structure determination of a 2-chloroethyl-N-nitrosourea hydrochloride derivative by X-ray powder diffraction and solid-state NMR,
Acta Cryst., Sect. C, Cryst. Struct. Commun., **2012**, *C68*, o144-o148. *
- 97) Jürgen Brüning, Dragica Podgorski, Edith Alig, Jan W. Bats, Martin U. Schmidt :
Antidiarrhetic loperamide hydrochloride,
Acta Cryst., Sect. C, Cryst. Struct. Commun., **2012**, *C68*, o111-o113. *
- 96) Alexandra K. Wolf, Stefan Brühne, Jürgen Glinnemann, Chunhua Hu, Michael T. Kirchner, Martin U. Schmidt :
Local atomic order in sodium p-chlorobenzenesulfonate monohydrate studied by pair distribution function analyses and lattice-energy minimisations,
Z. Kristallogr., **2012**, *227*, 113-121. *
- 95) Sándor L. Bekö, Jan W. Bats, Martin U. Schmidt :
2-Ammonio-5-chloro-4-methylbenzenesulfonate, its 1-methyl-2-pyrrolidone and dimethyl sulfoxide monosolvates and a corrected structure of 2,2'-(1,4-phenylene)-di(4,5-dihydroimidazolium) bis(4-aminobenzene-sulfonate)dihydrate,
Acta Cryst., Sect. C, Cryst. Struct. Commun., **2012**, *C68*, o45-o50. *
- 94) Sándor L. Bekö, Silke D. Thoms, Michael Bolte, Martin U. Schmidt :
Tizanidine and tizanidine hydrochloride: on the correct tautomeric form of tizanidine,
Acta Cryst., Sect. C, Cryst. Struct. Commun., **2012**, *C68*, o28-o32. *
- 93) Christian Buchsbaum, Erich F. Paulus, Martin U. Schmidt : *

Crystal structures of thiazine-indigo pigments, determined from single-crystal and powder diffraction data,
Z. Kristallogr., **2011**, 226, 822-831.

- 92) Jan Hüsich, Bercecm Dutagaci, Clemens Glaubitz, Tim Geppert, Gisbert Schneider, Meike Harms, C. C. Müller-Goymann, Lothar Fink, Martin U. Schmidt, Constanze Setzer,
Jürgen Zirkel, Herbert Rebmann, Manfred Schubert-ZsilavecZ, Mona Abdel-Tawab :
Structural properties of so-called NSAID-phospholipid-complexes,
Eur. J. Pharm. Sci., **2011**, *44*, 103-116.
- 91) Martin U. Schmidt , Jürgen Brüning, Jürgen Glinnemann, Maximilian W. Hützler, Philipp Mörschel, Svetlana N. Ivashevskaya, Jacco van de Streek, Dario Braga, Lucia Maini ,
Michele R. Chierotti , Roberto Gobetto:
Die thermodynamisch stabile Form von fester Barbitursäure: das Enol-Tautomer,
The Thermodynamically Stable Form of Solid Barbituric Acid: The Enol Tautomer,
Angew. Chem., **2011**, *123*, 8070-8072
Angew. Chem. Int. Ed., **2011**, *50*, 7924-7926.
- 90) Jan W. Bats , Jürgen Brüning, Martin U. Schmidt:
1,5-Dianilinopentane-1,3,5-trione: a crystal structure containing two polymorphic domains,
Acta Cryst., Sect. C, Cryst. Struct. Commun., **2011**, *C67*, o212-o218.
- 89) Jürgen Brüning, Edith Alig, Jacco van de Streek, Martin U. Schmidt :
The use of dispersion-corrected DFT calculations to prevent an incorrect structure determination from powder data: the case of acetolone, C₁₁H₁₁N₃O₃,
Z. Kristallogr., **2011**, *226*, 476-482.
- 88) Sonja M. Hammer, Edith Alig, Lothar Fink, Martin U. Schmidt :
Predicted and experimental crystal structures of ethyl-tert-butyl ether,
Acta Cryst., Sect. B, Struct. Sci., **2011**, *B67*, 155-162.
- 87) Jürgen Brüning, Anna Christine Petereit, Edith Alig, Michael Bolte, Jennifer B. Dressman, Martin U. Schmidt :
Characterization of a new solvate of risedronate,
J. Pharm. Sci., **2011**, *100*, 863-873.
- 86) Christian Czech, Sonja M. Hammer, Boris Bonn, Martin U. Schmidt :
Adsorption sites, adsorption enthalpies and potential removal of terpenoids by atmospheric ice,
Atmos. Environ., **2011**, *45*, 687-693.
- 85) Yu Zhong Zhang, Kateryna Foyevtsova, Harald O. Jeschke, Martin U. Schmidt, Roser Valentí:

Can the Mott insulator TiOCl be metallized by doping? A first-principles study,
Phys. Rev. Lett., **2010**, *104*, 146402/1-146402/4.

- 84) Alexandra K. Wolf, Jürgen Glinnemann, Lothar Fink, Edith Alig, Michael Bolte, Martin U. Schmidt :
Predicted crystal structures of tetramethylsilane and tetramethylgermane and an experimental low-temperature structure of tetramethylsilane,
Acta Cryst., Sect. B, Struct. Sci., **2010**, B66, 229-236.
- 83) Sándor L. Bekö, Silke D. Thoms, Jürgen Brüning, Edith Alig, Jacco van de Streek, Andrea Lakatos, Clemens Glaubitz, Martin U. Schmidt :
X-ray powder diffraction, solid-state NMR and dispersion-corrected DFT calculations to investigate the solid-state structure of 2-ammonio-5-chloro-4-methylbenzenesulfonate,
Z. Kristallogr., **2010**, 225, 382-387.
- 82) Martin U. Schmidt , Erich F. Paulus, Nadine Rademacher, Graeme M. Day:
Experimental and predicted crystal structures of Pigment Red 168 and other dihalogenated anthanthrones,
Acta Cryst., Sect. B, Struct. Sci., **2010**, B66, 515-526.
- 81) Jürgen Brüning, Desiree Heintz, Alke Meents, Michael Bolte, Martin U. Schmidt :
Monothioindigo, determined by microcrystal structure analysis,
Acta Cryst., Sect. C, Cryst. Struct. Commun., **2010**, C66, o459-o462.
- 80) Jürgen Brüning, Edith Alig, Martin U. Schmidt :
Ezetimibe anhydrate, determined from laboratory powder diffraction data,
Acta Cryst., Sect. C, Cryst. Struct. Commun., **2010**, C66, o341-o344.
- 79) Jürgen Brüning, Alexander Peters, Jan W. Bats, Martin U. Schmidt :
7-Methoxy-2,3-dioxo-1,4-dihydroquinoxalin-6-aminium chloride monohydrate,
Acta Cryst., Sect. C, Cryst. Struct. Commun., **2010**, C66, o1-o4.
- 78) Jürgen Brüning, Edith Alig, Alke Meents, Jacco van de Streek, Martin U. Schmidt :
Structure determinations of three fluorescent organic pigments by powder diffraction and micro-crystal structure analysis,
Z. Kristallogr., **2009**, 224, 556-562.
- 77) Jürgen Brüning, Edith Alig, Jan W. Bats, Jacco van de Streek, Martin U. Schmidt :
Crystal structure determination of N,N'-1,4-phenylenebis(3-oxobutanamide) from laboratory powder diffraction data,
Z. Kristallogr., **2009**, 224, 593-597.
- 76) Jürgen Brüning, Jan W. Bats, Martin U. Schmidt :
2-Aminoterephthalic acid dimethyl ester,

Acta Cryst., Sect. E, Struct. Rep. Online, **2009**, E65, o2468-o2469.

- 75) Karsten Sieg^{*}, Elena Starokozhev, Martin U. Schmidt, Wilhelm Puettmann:
Inverse temperature dependence of Henry's law coefficients for volatile organic compounds in supercooled water,
Chemosphere, **2009**, 77, 8-14.
- 74) Jürgen Brüning, Michael Bolte, Martin U. Schmidt^{*} :
Three solvates of a bis-mesoionic fluorescent yellow pigment,
Acta Cryst., Sect. C, Cryst. Struct. Commun., **2009**, C65, o352-o356.
- 73) Tatiana Gorelik, Martin U. Schmidt, Jürgen Brüning, Sándor Bekö, Ute Kolb^{*} :
Using Electron Diffraction to Solve the Crystal Structure of a Laked Azo Pigment,
Cryst. Growth Des., **2009**, 9, 3898-3903.
- 72) Sándor L. Bekö, Jan W. Bats, Martin U. Schmidt^{*} :
Two new cobalt(II) fumarates and a redetermination of tetraaquacobalt(II) fumarate monohydrate,
Acta Cryst., Sect. C, Cryst. Struct. Commun., **2009**, C65, m347-m351.
- 71) Yurong Ma, Gerald Mehlretter, Carsten Plug, Nadine Rademacher, Martin U. Schmidt,
Helmut Cölfen^{*} :
PY181 Pigment Microspheres of Nanoplates Synthesized via Polymer-Induced Liquid Precursors,
Adv. Funct. Mater., **2009**, 19, 2095-2101.
- 70) Yu-Zhong Zhang, Kateryna Foyevtsova, Harald O. Jeschke, Martin U. Schmidt, Roser Valentí:
Can the Mott Insulator TiOCl be Metallized by Doping? A First-Principles Study.,
Condensed Matter, **2009**, arXiv:0905.1276v1, 1-4.
- 69) Alexandra K. Wolf, Jürgen Glinnemann, Martin U. Schmidt^{*}, Jianwei Tong, Robert E. Dinnebier, Arndt Simon, Jürgen Köhler:
SiBr(4) – prediction and determination of crystal structures,
Acta Cryst. Sect. B, Struct. Sci., **2009**, B65, 342-349.
- 68) Graeme M. Day^{*}, Timothy G. Cooper, Aurora J. Cruz-Cabeza, Katarzyna E. Hejczyk, Herman L. Ammon, Stephan X. M. Boerrigter, Jeffrey S. Tan, Raffaele G. la Valle, Elisabetta Venuti, Jovan Jose, Shridhar R. Gadre, Gautam R. Desiraju, Tejender S. Thakur, Bouke P. van Eijck, Julio C. Facelli, Victor E. Bazterra, Marta B. Ferraro, Detlef W. M. Hofmann, Marcus A. Neumann, Frank J. J. Leusen, John Kendrick, Sarah L. Price, Alston J. Misquitta, Panagiotis G. Karamertzanis, Gareth W. A. Welch, Harold A. Scheraga, Yelena A. Arnautova, Martin U. Schmidt, Jacco van de Streek, Alexandra K. Wolf, Bernd Schweizer:

Significant progress in predicting the crystal structures of small organic molecules – a report on the fourth blind test,
Acta Cryst., Sect. B, Struct. Sci., **2009**, *B65*, 107-125.

- *
- 67) Martin U. Schmidt , Stefan Brühne, Alexandra K. Wolf, Anette Rech, Jürgen Brüning, Edith Alig, Lothar Fink, Christian Buchsbaum, Jürgen Glinnemann, Jacco van de Streek, Fabia Gozzo, Michela Brunelli, Frank Stowasser, Tatiana Gorelik, Enrico Mugnaioli, Ute Kolb:
Electron diffraction, X-ray powder diffraction and pair-distribution-function analyses to determine the crystal structures of Pigment Yellow 213, C₂₃H₂₁N₅O₉ ,
Acta Cryst., Sect. B, Struct. Sci., 2009, B65, 189-199.
- 66) Svetlana N. Ivashevskaya, Jacco van de Streek, Juste E. Djanhan, Jürgen Brüning, Edith Alig, Michael Bolte, Martin U. Schmidt , Peter Blaschka, Hans Wolfgang Höffken, Peter Erk:
Structure determination of seven phases and solvates of Pigment Yellow 183 and Pigment Yellow 191 from X-ray powder and single-crystal data,
Acta Cryst., Sect. B, Struct. Sci., 2009, B65, 212-222.
- 65) Sonja M. Hammer, Robin Panisch, Maja Kobus, Jürgen Glinnemann, Martin U. Schmidt :
Simulation of absorption sites of acetone at ice: (0001) surface, bulk ice and small-angle grain boundaries,
CrystEngComm, 2009, 11, 1291-1302.
- *
- 64) Martin U. Schmidt , Jacco van de Streek, Svetlana N. Ivashevskaya:
The First Crystal Structures of Industrial Laked Yellow Pigments Determined by X-ray Powder Diffraction,
Chem. Eur. J., 2009, 15, 338-341.
- 63) Jacco van de Streek, Jürgen Brüning, Svetlana N. Ivashevskaya, Martin Ermrich, Erich F. Paulus, Michael Bolte, Martin U. Schmidt :
Structures of six industrial benzimidazolone pigments from laboratory powder diffraction data,
Acta Cryst., Sect. B, Struct. Sci., 2009, B65, 200-211.
- 62) Jürgen Brüning, Michael Bolte, Martin U. Schmidt:
New Toluene Hemi Solvate of the Proton Pump Inhibitor Piperazinium Esomeprazole,
J. Chem. Cryst., 2009, 39, 256-260.
- 61) Martin U. Schmidt:
Crystal design of high performance pigments,
 in: *High Performance Pigments, 2nd ed.,* Faulkner, E. and Schwartz, R. (Ed.), Wiley-VCH, Weinheim, **2009**, 105-127.
- 60) Martin U. Schmidt:
Imidazolone-annellated Triphenedioxazine Pigments,

in: *High Performance Pigments, 2nd ed.*, Faulkner, E. and Schwartz, R. (Ed.), Wiley-VCH, Weinheim, **2009**, 341-354.

- 59) K. Nollenberger, A. Gryczke, Ch. Meier, J. Dressman, M. U. Schmidt, S. Brühne:
Pair Distribution Function X-Ray Analysis Explains Dissolution Characteristics of Felodipine Melt Extrusion Products,
J. Pharm. Sci., **2009**, 98, 1476-1486.
- 58) Jürgen Brüning^{*}, Jan W. Bats, Martin U. Schmidt:
Rasagiline ethanedisulfonate: an inhibitor for monoamine oxygenase B (MAO_B),
Acta Cryst., Sect. C, Cryst. Struct. Commun., **2008**, C64, o613-o615.
- 57) Martin U. Schmidt^{*}, Jürgen Brüning, Daniela Wirth, Michael Bolte:
Two azo pigments based on β -naphthol,
Acta Cryst., Sect. C, Cryst. Struct. Commun., **2008**, C64, o474-o477.
- 56) Alexandra K. Wolf, Jürgen Glinnemann, Martin U. Schmidt^{*}:
Packing of tetrahedral EX₄ molecules with E = C, Si, Ge, Sn, Pb and X = F, Cl, Br, I,
CrystEngComm, **2008**, 10, 1364-1371.
- 55) Martin U. Schmidt^{*}, Christian Buchsbaum:
Structure determination of 6,6'-bis(trifluoromethyl)thiazine-indigo from laboratory powder data and lattice-energy minimization,
Z. Kristallogr., **2008**, 223, 418-423.
- 54) Stefan Brühne^{*}, Saskia Gottlieb, Wolf Assmus, Edith Alig, Martin U. Schmidt:
Atomic Structure Analysis of Nanocrystalline Boehmite AlO(OH),
Cryst. Growth Des., **2008**, 8, 489-493.
- 53) M. U. Schmidt:
Festkolloquium für Prof. Paulus,
GDCh Fachgruppe Analytische Chemie, Mitteilungsblatt, **1/2008**, 39-40.
- 52) Alexander Zeller, Georg Eickerling, Eberhardt Herdtweck, Martin U. Schmidt, Thomas Strassner^{*}:
Polymorphism of a nickel polymerization catalyst,
J. Organomet. Chem., **2007**, 692, 4725-4730.
- 51) Christian Buchsbaum, Martin U. Schmidt^{*}:
Rietveld refinement of a wrong crystal structure,
Acta Cryst., Sect. B, Struct. Sci., **2007**, B63, 926-932.
- 50) Elna Pidcock, Jacco van de Streek^{*}, Martin U. Schmidt:

The crystal structure of Pigment Yellow 181 from laboratory powder diffraction data,
Z. Kristallogr., **2007**, 222, 713-717.
Mit Titelbild.

- 49) Harald O. Jeschke, L. Andrea Salguero, Badiur Rahaman, Christian Buchsbaum, Volodymyr Pashchenko, Martin U. Schmidt, Tanusri Saha-Dasgupta, Roser Valentí: *Microscopic modeling of a spin crossover transition*, *New J. Phys.*, **2007**, 9, 448.
- 48) Martin U. Schmidt: *Solving Crystal Structures from Powder Data by Lattice Energy Minimisations*, *Commission on Powder Diffraction Newsletter*, **2007**, 35, 12-16.
- *
- 47) Martin U. Schmidt , Robert E. Dinnebier, Holger Kalkhof: *Crystal Engineering on Industrial Diaryl Pigments Using Lattice Energy Minimizations and X-ray Powder Diffraction*, *J. Phys. Chem. B*, **2007**, 111, 9722-9732.
Mit Titelbild.
- *
- 46) Martin U. Schmidt , Jürgen Brüning, Christian Buchsbaum, Edith Alig, Lothar Fink: *Crystal-structure determination of the fluorescent bisazomethine pigment C₃₆H₂₆N₄O₄ from X-ray powder data*, *Z. Kristallogr.*, **2007**, 222, 539-545.
- *
- 45) Elke Fries , Elena Starokozhev, Werner Haunold, Wolfgang Jaeschke, Subir K. Mitra, Stephan Borrmann, Martin U. Schmidt: *Laboratory studies on the uptake of aromatic hydrocarbons by ice crystals during vapor depositional crystal growth*, *Atmos. Environ.*, **2007**, 41, 6156-6166.
- 44) L. Andrea Salguero, Harald O. Jeschke, Badiur Rahaman, Tanusri Saha-Dasgupta, Christian Buchsbaum, Martin U. Schmidt, Roser Valentí: *Cu-based metalorganic systems: an ab initio study of the electronic structure*, *New J. Phys.*, **2007**, 9, 26.
- *
- 43) Erich F. Paulus, Frank J. J. Leusen, Martin U. Schmidt : *Crystal structures of quinacridones*, *CrystEngComm*, **2007**, 9, 131-143.
Mit Titelbild.
- *
- 42) Martin U. Schmidt , Christian Buchsbaum, Jan M. Schnorr, Detlef W. M. Hofmann, Martin Ermrich: *Pigment Orange 5: Crystal structure determination from a non-indexed X-ray powder diagram*, *Z. Kristallogr.*, **2007**, 222, 30-33.

- 41) Martin U. Schmidt, Torsten Schmiermund, Michael Bolte :
Calcium anilate hexahydrate,
Acta Cryst., Sect. E, Struct. Rep. Online, **2007**, E63, m360-m362.

- 40) Martin U. Schmidt, Torsten Schmiermund, Michael Bolte :
Anilic acid dimethylformamide disolvate,
Acta Cryst., Sect. E, Struct. Rep. Online, **2007**, E63, o293-o295.
- 39) Harald O. Jeschke , L. Andrea Salguero, Roser Valentí, Christian Buchsbaum, Martin U. Schmidt, Matthias Wagner:
Classical and ab initio preparation of reliable structures for polymeric coordination compounds,
Comptes Rendus Chimie, **2007**, 10, 82-88.
- 38) Stefan H. Hüttenhain , Martin U. Schmidt , Fenja R. Schoepke, Magnus Rueping:
Chiral induction from solvents-lactic acid esters in the asymmetric hydroboration of ketones,
Tetrahedron, **2006**, 62, 12420-12423.
- 37) Martin U. Schmidt , Torsten Schmiermund, Michael Bolte:
Disodium 2,5-bis(phenylamino)terephthalate decahydrate, an intermediate in the industrial synthesis of quinacridone pigments,
Acta Cryst., Sect. C, Cryst. Struct. Commun., **2006**, C62, m37-m40.
- 36) Martin U. Schmidt , Detlef W. M. Hofmann, Christian Buchsbaum, Hans Joachim Metz:
Kristallstrukturen von Pigment Red 170 und Derivaten, bestimmt aus Röntgenpulverdiagrammen,
Crystal structures of Pigment Red 170 and derivatives, as determined by X-ray powder diffraction,
Angew. Chem., **2006**, 118, 1335-1340,
Angew. Chem. Int. Ed., **2006**, 45, 1313-1317.
- 35) Andreas Dreuw , Jürgen Plötner, Lisa Lorenz, Josef Wachtveitl, Juste E. Djanhan, Jürgen Brüning, Thomas Metz, Michael Bolte, Martin U. Schmidt :
Molekularer Mechanismus der Festkörperfluoreszenz des organischen Pigments Yellow 101 und seiner Derivate,
Molecular mechanism of the solid-state fluorescence behavior of the organic Pigment Yellow 101 and its derivatives,
Angew. Chem., **2005**, 117, 7961-7964,
Angew. Chem. Int. Ed., **2005**, 44, 7783-7786.
- 34) Martin U. Schmidt, Chunhua Hu , Jan W. Bats, Jens Kühne:
4-(2-Hydroxyethyl)-4H-1,2,4-triazole, an intermediate in the synthesis of iron-triazole spin-crossover compounds,
Acta Cryst., Sect. E, Struct. Rep. Online, **2005**, E61, o4343-o4344.

- *
- 33) G. M. Day , W. D. S. Motherwell, H. L. Ammon, S. X. M. Boerrigter, R. G. Della Valle, E. Venuti, A. Dzyabchenko, J. D. Dunitz, B. Schweizer, B. P. van Eijck, P. Erk, J. C. Facelli, V. E. Bazterra, M. B. Ferraro, D. W. M. Hofmann, F. J. J. Leusen, C. Liang, C. C. Pantelides, P. G. Karamertzanis, S. L. Price, T. C. Lewis, H. Nowell, A. Torrisi, H. A. Scheraga, Y. A. Arnautova, M. U. Schmidt, P. Verwer:
A third blind test of crystal structure prediction,
Acta Cryst., Sect. B, Struct. Sci., **2005**, *B61*, 511-527.
- 32) Ivan Spremo, Florian Schütz, Peter Kopietz, Volodymyr Pashchenko, Bernd Wolf, Michael Lang, Jan W. Bats, Chunhua Hu, Martin U. Schmidt:
Magnetic properties of a metal-organic antiferromagnet on a distorted honeycomb lattice,
Phys. Rev. B, **2005**, *72*, 174429/1-174429/11.
- *
- 31) Martin U. Schmidt , Edith Alig, Lothar Fink, Michael Bolte, Robin Panisch, Volodymyr Pashchenko, Bernd Wolf, Michael Lang:
Magnetic properties of two double-layer structures built from hydroxynaphthoic acids and manganese,
Acta Cryst., Sect. C, Cryst. Struct. Commun., **2005**, *C61*, m361-m364.
- *
- 30) Martin U. Schmidt , Martin Ermrich, Robert E. Dinnebier:
Determination of the structure of the violet pigment C₂₂H₁₂Cl₂N₂O₆ from a non-indexed X-ray powder diagram,
Acta Cryst., Sect. B, Struct. Sci., **2005**, *B61*, 37-45.
- 29) M. U. Schmidt, R. H. Sterzel:
60. Geburtstag von Professor Kolbesen,
GDCh Fachgruppe Analytische Chemie, Mitteilungsblatt, **1/2005**, 32-32.
- 28) Martin U. Schmidt:
Chocolate, color y medicina - Modificaciones cristalinas en la química orgánica,
Quimical Universal, Januar-Februar 2004.
- 27) Martin U. Schmidt:
Polymorphie und Crystal Engineering in der Praxis,
CHEManager, 2/2004 , 6-8.
- 26) Martin U. Schmidt:
Polymorphie und Crystal Engineering in der Praxis,
Welt der Farben, 1/2004.
- 25) M. U. Schmidt:
Crystal engineering and polymorphism of organic pigments,
Advances in Colour Science and Technology, **2003**, *6*, 59-61.

- 24) Martin U. Schmidt, Guido Wagner, Michael Bolte :
Redetermination of 3-hydroxy-2-naphthoic acid,
Acta Cryst., Sect. E, Struct. Rep. Online, 2002, E58, o918-o919.
- 23) Martin U. Schmidt:
Bestimmung der Kristallstrukturen organischer Pigmente aus Röntgen-Pulverdiagrammen,
Nachrichten aus der Chemie, 2002, 50, 812-818.
- 22) W. D. Sam Motherwell , Herman L. Ammon, Jack D. Dunitz, Alexander Dzyabchenko, Peter Erk, Angelo Gavezzotti, Detlef W. M. Hofmann, Frank J. J. Leusen, Jos P. M. Lommerse, Wijnand T. M. Mooij, Sarah L. Price, Harold Scheraga, Bernd Schweizer, Martin U. Schmidt, Bouke P. van Eijck, Paul Verwer, Donald E. Williams:
Crystal structure prediction of small organic molecules: a second blind test,
Acta Cryst., Sect. B, Struct. Sci., 2002, B58, 647-661.
- 21) Jos P. M. Lommerse , W. D. Sam Motherwell, Herman L. Ammon, Jack D. Dunitz, Angelo Gavezzotti, Detlef W. M. Hofmann, Frank J. J. Leusen, Wijnand T. M. Mooij, Sarah L. Price, Bernd Schweizer, Martin U. Schmidt, Bouke P. van Eijck, Paul Verwer, Donald E. Williams:
A test of crystal structure prediction of small organic molecules,
Acta Cryst., Sect. B, Struct. Sci., 2000, B56, 697-714.
- 20) Pierre Braunstein , Gerhard E. Herberich, Mark Neuschütz, Martin U. Schmidt:
Cyano-bridged Fe-CN-Pt-NC-Fe chain complexes: structural and spectroscopic characterization of four isomers of $[\{\eta^{-}(1\text{-phenylborole})\text{Fe}(\text{CO}) (\mu\text{-CN})\}_2 \text{Pt}(\text{PEt}_3)_2]$,
J. Organomet. Chem., 1999, 580, 66-71.
- 19) Pierre Braunstein , Ulli Englert, Gerhard E. Herberich , Mark Neuschütz, Martin U. Schmidt:
Heterometallic complexes with borole ligands,
J. Chem. Soc., Dalton Trans., 1999, 16, 2807-2812.
- 18) Robert E. Dinnebier , Wayne A. Dollase, Xavier Helluy, Jörg Kümmerlen, Angelika Sebald, Martin U. Schmidt, Silvina Pagola, Peter W. Stephens, Sander Van Smaalen:
Order-disorder phenomena determined by high-resolution powder diffraction: the structures of tetrakis(trimethylsilyl)methane $\text{C}[\text{Si}(\text{CH}_3)_3]_4$ and tetrakis(trimethylsilyl)silane $\text{Si}[\text{Si}(\text{CH}_3)_3]_4$,
Acta Cryst., Sect. B, Struct. Sci., 1999, B55, 1014-1029.

- 17) M. U. Schmidt:
Energy minimization as a tool for crystal structure determination of industrial pigments,
Crystal Engineering: From Molecules and Crystals to Materials, NATO Science Series,
Series C, 538, Dario Braga, Fabrizia Grepioni, and A.Guy Orpen (Ed.), Kluwer Academic
Publishers, Dordrecht, Netherland, **1999**, 331-348.

Polare Iminoborane: Reaktionen des (tert-Butylimino)(pentafluorphenyl)borans,
Chem. Ber., **1995**, 128, 1037-1043.

- *
- 8) Franc Meyer, Martin U. Schmidt, Peter Paetzold :
1,1-Hydroborierung von Alkinen mit 6-Aza-nido-decaboranen,
Chem. Ber., 1995, 128, 947-951.
- 7) Martin U. Schmidt:
Kristallstrukturberechnungen metallorganischer Molekülverbindungen
 Verlag Shaker, Aachen, **1995**,
 zugleich Dissertation RWTH Aachen (1994).
- *
- 6) Gerhard E. Herberich , Tobias Carstensen, Wolfram Klein, Martin U. Schmidt:
Reaction of 19-Valence-Electron Sandwich Complexes with Alkyl Halides. A Radical-Clock Investigation,
Organometallics, 1993, 12, 1439-1441.
- *
- 5) Franc Meyer, Jens Müller, Martin U. Schmidt, Peter Paetzold :
1-Alkyl-1-aza-closo-dodecaborane: A Novel Access to the Icosahedral NB Skeleton,
Inorg. Chem., 1993, 32, 5053-5057. 11
- 4) A. Hörnig, U. Kölle, Martin U. Schmidt, G. E. Herberich, U. Englert:
Pseudosymmetric Molecular Shape Resulting in Disorder in the Crystalline State,
Acta Chim. Hung., 1993, 130, 405-414.
- *
- 3) Ulrich Kölle , Gabriele Flunkert, Ralf Görissen, Martin U. Schmidt, Ulli Englert:
Herstellung, Ligandenaustauschreaktionen und Struktur eines Dien(aqua)-Rutheniumkomplexes, [(cod)Ru(H O)₂(OTs)₄]₂
Preparation, ligand exchange reaction, and structure of a diene(aqua)ruthenium complex, [(cod)Ru(H O)₂(OTs)₄]₂,
Angew. Chem., 1992, 104, 445-447,
Angew. Chem. Int. Ed., 1992, 31, 440-442.
- *
- 2) Peter Hofmann , Claudia Meier, Ulli Englert, Martin U. Schmidt:
Bis(di-tert-butylphosphanyl)methan-Komplexe des Rhodiums: Geometrie, Elektronenstruktur und Derivate des 14-Elektronenteilchen [Rh(dtbpm)Cl]. Molekülstruktur von Rh(dtbpm)Cl(PMe)₃,
Chem. Ber., 1992, 125, 353-365.
- 1) Schmidt, Martin U.:
Geometrische Formen von Molekülen im Festkörper,
 Diplomarbeit, Inst. f. Anorg. Chemie der RWTH Aachen 1991.

Patente

DE = Deutsches Patent / German Patent

EP = Europäisches Patent / European Patent

US = US-Patent

WO = International Patent Application (PCT)

22) Silke Gumbert, Lukas Tapmeyer, Martin U. Schmidt:

Neue Kristallphasen von Flupirtin-Maleat
(Novel crystal phases of flupirtine maleate)

DE Application No. 10 2015 013 478 A1, filed 17-10-2015, published 20-04-2017

21) Sándor L. Bekö, Silke D. Thoms, Martin U. Schmidt:

Neue Kristallphasen von Pigment Orange 13
(Novel crystal phases of Pigment Orange 13)

DE Application No. 10 2014 015146 A1, filed 13-10-2014, published 14-04-2016.

20) Simon Billinge, Christopher Farrow, Mercuri Kanatzidis, Tatiana E. Gorelik, Martin U. Schmidt:

Method of collecting and processing electron diffraction data

*PCT-Patent WO 2013013134 A2 (2013),
US Patent US 8921783 B2 (published 2014, granted 2014),
European Patent Application EP 2734836 A2 (published 2014),
Japanese Patent Application JP 2014521106 T (published 2014).*

On PDF of organic compounds from electron diffraction data.

- 19) Martin U. Schmidt, Kristin Kliemt:

Einfärben von Glas mit organischen Pigmenten
(Coloration of glass with organic pigments)

DE Application No. 10 2013 114 793 A1, filed 23-12-2013, published 25-06-2015.
- 18) Martin U. Schmidt, Jürgen Brüning, Tanja K. Trepte, Jan W. Bats:

DMSO Solvate Hydrate of Erythromycine

DE 102011117874-4, filed 04-11-2011, published 08-05-2013.
- 17) Martin U. Schmidt, Jürgen Brüning, Edith Alig, Michael Bolte, Boris Nachtsheim:

Acetic acid-solvate of risedronate, useful e.g. to treat or prevent bone resorption disorder, tumors or a disturbed calcium- or phosphate-metabolism

DE 102007030370 A1, filed 29-06-2007, published 02-01-2009.
- 16) Till Borchert, Martin Ulrich Schmidt, Arpad Acs, Rüdiger Jung:

Pigment composition based on C.I. Pigment Yellow 191

*DE 102007008218 A1, filed 20-02-2007, published 21-08-2008;
EP 2125965 B1, filed 12-02-2008, published 02-12-2009, granted 23-11-2011;
US 7824488 B2, filed 13-08-2009, published 22-04-2010, granted 02-11-2010;
WO 2008101612 A1, filed 12-02-2008, published 28-08-2008.*
- 15) Martin U. Schmidt, Gerald Mehlretter:

Novel crystalline modifications of C.I. Pigment Yellow 181 and associated production method

*DE 102004033287 A1, filed 09-07-2004, published 02-02-2006;
EP 1769034 A1, filed 15-06-2005, published 04-04-2007;
US 7709614 B2, filed 15-06-2005, published 06-03-2008, granted 04-05-2010;;
WO 2006005408 A1, filed 15-06-2005, published 19-01-2006.*

- 14) Karl-Heinz Schweikart, David Blum, Felix Wendelin Grimm, Martin Ulrich Schmidt, Josef Geisenberger:

Use of a pigment composition comprising mixed crystals based on C.I. Pigment Yellow 74

DE 102004010448 A1, filed 01-03-2004, published 22-09-2005;

EP 1723204 B1, filed 11-02-2005, published 22-11-2006, granted 08-12-2010;

US 7416596 B2, filed 11-02-2005, published 26-07-2007, granted 26-08-2008;

WO 2005083010 A1, filed 11-02-2005, published 09-09-2005.

- 13) Martin U. Schmidt, Hans Joachim Metz, Andreas Wacker:

Mixed crystals comprising C.I. Pigment Red 170 derivatives

DE 10338059, filed 19-08-2003;

EP 1658336 B1, filed 04-08-2004, published 24-05-2006, granted 22-11-2006;

US 20080241722 A1, filed 04-8-2004, published 02-10-2008;

WO 2005019346 A1, filed 04-8-2004, published 03-03-2005.

- 12) Frank Morgenroth, Martin U. Schmidt, Hans Joachim Metz:

Azo colorant based on 2-Phenyl-6-amino-7-methoxycarbonyl(3,4H)-chinazoline-4-one

DE 10331890 A1, filed 14-07-2003, published 03-02-2005;

WO 2005005550 A1, filed 30-06-2004, published 20-01-2005.

- 11) Martin U. Schmidt, Andreas Wacker, Hans Joachim Metz:

Novel derivatives of C.I. Pigment Red 170

DE 10224279 A1, filed 28-05-2002, published 11-12-2003;

WO 2003099936 A1, filed 13-05-2003, published 04-12-2003.

- 10) Bansi Lal Kaul, Bruno Piastra, Frank Prokschy, Martin Ulrich Schmidt, Valérie Wolf:

Epindolidione pigments

DE 60201345 T2, filed 06-02-2002, published 15-08-2002;

EP 1379527 B1, filed 06-02-2002, published 14-01-2004, granted 22-09-2004;

US 7307170 B2, filed 22-01-2004, published 15-07-2004, granted 11-12-2007;

WO 2002062796 C1, filed 06-02-2002, published 15-08-2002.

- 9) Martin U. Schmidt, Peter Kempter, Carsten Plüg, Roland Born:

Mixed crystals of benzimidazolonedioxazine derivatives

DE 10052858 A1, filed 24-10-2000, published 25-04-2002;

EP 1201718 B1, filed 12-10-2001, published 02-05-2002, granted 24-05-2006;

US 6762299 B2, filed 24-10-2001, published 11-07-2002, granted 13-07-2004.

- 8) Martin U. Schmidt, Peter Kempter, Roland Born:

Process for producing new crystalline modifications of a methyl-substituted benzimidazolonedioxazine pigment

DE 10052221 A1, filed 21-10-2000, published 02-05-2002;

EP 1199309 B1, filed 10-10-2001, published 24-04-2002, granted 07-03-2007;

US 6620931 B2, filed 22-10-2001, published 05-09-2002, granted 16-09-2003.

- 7) Rüdiger Jung, Hans-Joachim Metz, Joachim Weber, Martin U. Schmidt, Olaf Schupp, Andreas Wacker:

Crystal modifications of a yellow disazo colorant and a process for their production

DE 10045790 A1, filed 15-9-2000, published 28-3-2002;

EP 1188800 B1, filed 4-9-2001, published 20-3-2002, granted 3-12-2003;

US 6504045 B2, filed 13-9-2001, published 30-5-2002, granted 7-1-2003.

- 6) Martin U. Schmidt, Arpad Acs, Rüdiger Jung, Franz Schui:

New crystalline modification of C.I. Pigment Yellow 191 and manufacturing process thereof

DE 10032315 A1, filed 04-07-2000, published 17-01-2002;

EP 1170338 A3, filed 21-06-2001, published 09-01-2002;

US 6602342 B2, filed 02-07-2001, published 20-06-2002, granted 05-08-2003;

EP-Application divided into to cases:

- (a) Martin U. Schmidt, Arpad Acs, Rüdiger Jung, Franz Schui:

New crystalline modification of C.I. Pigment Yellow 191 and manufacturing process thereof

EP 1170338 B1, granted 24-05-2006.

- (b) Martin U. Schmidt, Arpad Acs, Rüdiger Jung, Franz Schui:

Gamma crystalline modification of C.I. Pigment Yellow 191 and manufacturing process thereof

EP 1528084 B1, published 04-05-2005, granted 09-07-2008.

- 5) Rüdiger Jung, Klaus Kund, Bernd Nestler, Martin U. Schmidt, Leonhard Unverdorben, Rudolf Steiner:

Finishing treatment of pigments in liquid or supercritical CO₂

DE 19959661 A1, filed 10-12-1999, published 13-06-2001;

EP 1240253 B1, filed 16-11-2000, published 18-09-2002, granted 23-06-2004;

US 6358308 B1, filed 08-12-2000, published 21-06-2001, granted 19-03-2002;

WO 2001042370 A1, filed 16-11-2000, published 14-06-2001.

4) Martin U. Schmidt:

Preparation process of new crystalline modifications of pigment C.I. Pigment Red 53:2

DE 19858853 A1, filed 19-12-1998, published 21-06-2000;

EP 1010732 A1, filed 11-12-1999; published 21-06-2000;

US 6228162 B1, filed 17-12-1999, granted 08-05-2001.

3) Martin U. Schmidt, Hans-Joachim Metz:

Crystalline modification of pigment C.I. Pigment Red 53:2 (delta phase)

DE 19827273.1, filed 19-06-1998, published 23-12-1999;

EP 965616 A1, filed 05-06-1999, published 22-12-1999;

US 6146455 A1, filed 21-06-1999, published 14-11-2000.

2) Martin U. Schmidt, Hans-Joachim Metz:

Crystalline modification of pigment C.I. Pigment Red 53:2 (gamma phase)

DE 19827272 A1, filed 19-06-1998, published 23-12-1999;

EP 965617 B1, filed 05-06-1999, published 22-12-1999, granted 30-01-2002;

US 6191263 B1, filed 21-06-1999, granted 20-02-2001.

1) Martin U. Schmidt, Frank Becker, Bruno Piastra:

New crystal modification of thiazine-indigo

DE 19752092 A1, filed 25-11-1997, published 02-06-1999;

EP 919597 B1, filed 16-11-1998, published 02-06-1999, granted 10-10-2001;

US-Application 09/196665, filed 19-11-1998.