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## Publications and Presentations

### A. Articles (corresponding author\*)

134. Zilin Ruan, Olaf A. Kleykamp, Kiyun Linus Haiko Pohl, Tim Naumann, L. Alix Kaczmarek, Anton S. Nizovtsev, Eugen Sharikow, Jörg Sundermeyer, Doreen Mollenhauer, **J. Michael Gottfried\***  
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133. Dong Han, Jakob Schramm, Zilin Ruan, Tim Naumann, Nour-Eddine El Alaoui, Konstantin Y. Amsharov, Ralf Tonner-Zech, **J. Michael Gottfried\***  
*Quasi-Planar  $\pi$ -Extended Cycloparaphenylenes: On-Surface Synthesis, Characterization, and Electronic Properties*  
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132. Divanshu Gupta, Michael Mastalerz, **J. Michael Gottfried**, Holger F. Bettinger\*  
*Cyclacene-derived carbon lattices with distorted hexagonal tiling and in-plane  $\pi$ -orbitals: coexistence of flat and Dirac bands*  
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131. Zilin Ruan, Qitang Fan, Alexander Reichmann, Faming Kang, Tim Naumann, Simon Werner, Olaf Kleykamp, Jose Martinez-Castro, Felix Lüpke, Anja Haags, François C. Bocquet, Christian Kumpf, Serguei Soubatch, Jörg Sundermeyer, Peter Puschnig, F. Stefan Tautz, **J. Michael Gottfried**, Sabine Wenzel\*  
*Highly Structure-Selective On-Surface Synthesis of Isokekulene Versus Kekulene*  
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130. Zilin Ruan, Liping Ye, Yogendra Singh, Tim Naumann, Faming Kang, Ye Liu, Michael Mastalerz\*, **J. Michael Gottfried\***  
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*Oberflächengestützte Synthese und Charakterisierung von Tetraazonacenen*  
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129. Maik Schöniger, Stefan R. Kachel, Jan Herritsch, **J. Michael Gottfried\***  
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128. Jan Herritsch, Cong Guo, Lukas J. Heuplick, Mark Hutter, Qitang Fan, Florian Münster, Stefan R. Kachel, Malte Zugermeier and **J. Michael Gottfried\***  
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**B. Book Chapters and Other Contributions**

6. Q. T. Fan, **J. M. Gottfried**  
*Synthesis in flatland: rings and chains grown on surfaces*  
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5. Q.T. Fan, J.F. Zhu, **J. M. Gottfried**  
*Organometallic Structures and Intermediates in Surface Ullmann Coupling*  
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4. Q.T. Fan, J.F. Zhu, **J. M. Gottfried**  
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2. **J. M. Gottfried**, R. Schuster  
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1. O. Lytken, H.-J. Drescher, R. Kose, **J. M. Gottfried**  
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**C. Habilitation, Doctoral (PhD), and Diploma Theses**

3. *Surface Chemistry of Porphyrins and other Complex Adsorbate Systems*, Habilitation Thesis, Friedrich-Alexander-Universität Erlangen-Nürnberg 2009, <https://www.uni-marburg.de/fb15/ag-gottfried/jmghabil.pdf>
2. *CO Oxidation over Gold. Adsorption and Reaction of Oxygen, Carbon Monoxide and Carbon Dioxide on a Au(110)-(1x2) Surface*, Doctoral (PhD) Thesis, Freie Universität Berlin 2003, <https://refubium.fu-berlin.de/handle/fub188/517>
1. *Adsorption von Sauerstoff auf einer Au(110)-(1x2)-Oberfläche*, Diploma Thesis, Freie Universität Berlin 1999.

#### D. Invited Lectures

- xxx. 05.02.2026 - GDCh Colloquium, Universität Würzburg, *Organic Synthesis and Single-Molecule Manipulation on Surfaces / Organische Synthese durch Einzelmolekülmanipulation auf Oberflächen*
144. 17.12.2025 – Invited Lecture, Symposium “Supramolecular Assemblies at Surfaces: Nanopatterning, Functionality, Reactivity”, Pacificchem, 14 – 20 Dec 2025, Honolulu, Hawaii, USA, *On-Surface Synthesis and Single-Molecule Manipulation for the Atomically Precise Fabrication of Carbon Nanomaterials*
143. 16.12.2025 – Invited Lecture, Symposium "Emerging Frontiers in Surface Spectroscopy and Microscopy", Pacificchem, 14 – 20 Dec 2025, Honolulu, Hawaii, USA, *On-Surface Porphyrin Chemistry*
142. 01.12.2025 – Wilhelm-Ostwald Colloquium, Universität Leipzig, Germany, *Atomic-Scale Fabrication and Characterization of Carbon Nanomaterials by Scanning Probe Techniques*
141. 16.11.2025 – Invited Lecture, 844. WE-Heraeus-Seminar on Scanning Probe Techniques - Current and Future Trends, 16 Nov - 20 Nov 2025, Physikzentrum Bad Honnef, Germany, *New Carbon Allotropes and Nanographenes via On-Surface Synthesis and Single-Molecule Manipulation*
140. 28.10.2025 – Colloquium, Universität Bielefeld, *New Carbon Allotropes and Nanographenes: Prototyping via On-Surface Synthesis and Single-Molecule Manipulation*
139. 24.09.2025 – Invited Lecture, AVS 71st International Symposium and Exhibition, 21-26 September 2025, Charlotte, North Carolina, USA. *On-Surface Synthesis and Single-Molecule Manipulation for the Atomically Precise Fabrication of Carbon Nanomaterials*
138. 19.09.2025 - Invited Lecture, Symposium on Surface Science and Catalysis, Rensselaer Polytechnic Institute, Troy, New York, USA, *On-Surface Synthesis and Single-Molecule Manipulation for the Atomically Precise Fabrication of Carbon Nanomaterials*
137. 13.06.2025 – Keynote Lecture, molCH Meeting, 13 June 2025, Bern, Switzerland, *On-Surface Synthesis and Single-Molecule Manipulation for the Atomically Precise Prototyping of Carbon Nanostructures*
136. 22.05.2025 – Invited Lecture, PriOSS Workshop, 20–22 May 2025, Schloss Rauischholzhausen, Germany, *Combined In-Solution and On-Surface Synthesis of Azacoronoids*

135. 11.05.2025 – Invited Lecture, First National Conference on Surface and Interface Science of the Chinese Chemical Society, 9–12 May 2025, Chengdu, China, *On-Surface Synthesis of Acenes, Azaacenes, and Azacoronoids*
134. 24.04.2025 – GDCh Colloquium, Universität Oldenburg, *On-Surface Synthesis and Single-Molecule Manipulation for the Atomically Precise Fabrication of Carbon Nanomaterials*
133. 14.04.2025 – GDCh Colloquium, Universität Siegen, *Prototyping New Carbon Allotropes and Nanographenes: On-Surface Synthesis and Single-Molecule Manipulation*
132. 13.01.2025 – Invited Lecture, Fachgruppe Kinetik und Reaktionsmechanismen, DECHEMA, Frankfurt am Main, *On-Surface Synthesis and Single-Molecule Manipulation: Versatile Pathways to Nanographenes and Novel Carbon Allotropes*
131. 08.11.2024 – Plenary Lecture, 10th Meeting on Physics and Chemistry of Surfaces (X Encuentro de Física y Química de Superficies), Bariloche, Argentina, *Exploring New Carbon Allotropes and Nanographenes: On-Surface Synthesis and Single-Molecule Manipulation*
130. 04.11.2024 – Colloquium, Centro Atómico Bariloche, Argentina, *Surface Chemistry of Porphyrins and Phthalocyanines*
129. 01.11.2024 – Colloquium, Instituto de Investigaciones Físico-Químicas, Teóricas y Aplicadas, Universidad Nacional de La Plata, Argentina, *Exploring New Carbon Allotropes and Nanographenes: On-Surface Synthesis and Single-Molecule Manipulation*
128. 28.10.2024 – Seminario DQIAyQF/INQUIMAE, Facultad de Ciencias Exactas y Naturales, Universidad de Buenos Aires, Argentina, *Exploring New Carbon Allotropes and Nanographenes: On-Surface Synthesis and Single-Molecule Manipulation*
127. 15.07.2024 – Invited Lecture, China Conference on Scanning Probe Microscopy, Kunming, China, 15-17 July 2024, *Exploring New Carbon Allotropes and Nanographenes: On-Surface Synthesis and Single-Molecule Manipulation*
126. 23.06.2024 - Invited Lecture, International Conference on Porphyrins and Phthalocyanines (ICPP-13), Buffalo, USA, June 23-28, 2024, *Porphyryns, Corroles and Beyond: On-Surface Synthesis and Electronic Properties*
125. 14.06.2024 – Zernike Seminar, University of Groningen, *Exploring New Carbon Allotropes and Nanographenes: On-Surface Synthesis and Single-Molecule Manipulation*
124. 26.05.2024 – Invited lecture, 245th ECS Meeting, San Francisco, USA, May 26-30, 2024, *Exploring New Carbon Allotropes and Nanographenes on Surfaces*
123. 15.04.2024 – Colloquium, Karlsruhe Institute of Technology (KIT), *New Carbon Allotropes and Nanographenes by On-Surface Synthesis and Single-Molecule Manipulation*
122. 10.03.2024 - Invited Lecture, 1st TIDE Conference “Template-Designed Organic Electronics & Beyond”, March 10-13, 2024, Cologne, Germany, *Exploring New Carbon Allotropes and Nanographenes: On Surface Synthesis and Single-Molecule Manipulation*
121. 22.01.2024 - Invited Lecture, Lavoisier Discussion “Bottom-up Synthesis of Graphene Related Materials”, ENS Paris-Saclay, France, January 22-23, 2024, *Exploring New Carbon Allotropes and Nanographenes: On-Surface Synthesis and Single-Molecule Manipulation*

120. 16.10.2023 – Invited lecture, 40 Years of Surface Science and Nanotechnology, Ascona, Switzerland, October 15-20, 2023, *New Carbon Allotropes and Nanographenes by On-Surface Synthesis*
119. 06.09.2023 – Invited lecture, 30th Conference of the Condensed Matter Division of the European Physical Society (CMD-30), Milano, Italy, September 04-08, 2023, *Beyond Graphene: On-Surface Synthesis Unlocks New Low-Dimensional Carbon Allotropes*
118. 06.06.2023 – Keynote Lecture, Canadian Chemistry Conference and Exhibition (CSC 2023), Vancouver/BC, Canada, June 4-8, 2023, *On-Surface Synthesis and Characterization of Low-Dimensional Non-Benzenoid Carbon Allotropes*
117. 15.05.2023 – Invited Tutorial Lecture, ERC-SyG TACY Kickoff Meeting, Landhotel Freinsheim, Germany, May 15-16, 2023, *Surface Chemistry and Single-Molecule Manipulation for the Synthesis of Novel Aromatic Molecules*
116. 09.05.2023 – Invited Lecture, PriOSS Symposium, Schloss Rauischholzhausen, Germany, May 08-10, 2023, *Beyond Graphene: On-Surface Synthesis Unlocks New Carbon Allotropes*
115. 19.04.2023 – GDCh Colloquium, University of Jena, *On-Surface Synthesis and Characterization of  $sp^2$  Carbon Allotropes*
114. 16.04.2023 – Keynote Lecture, 10th International Forum on Graphene, and 4th International Conference on Energy Storage Materials, Shenzhen, China, April 13-16, 2023, *Beyond Graphene: On-Surface Synthesis Unlocks New Carbon Allotropes*
113. 28.03.2023 – Hauptvortrag (Overview lecture), Annual Meeting of the German Physical Society (DPG), Dresden, March 26-31, 2023, *Beyond Graphene: On-Surface Synthesis Unlocks New Carbon Allotropes*
112. 30.10.2022 – Frontiers of Elemento-Organic Chemistry Lectureship, Nankai-University, China, *On-Surface Synthesis as a Versatile Route to Nanographenes and Novel Carbon Allotropes*
111. 13.10.2022 – Colloquium, Technical University of Dresden and Collaborative Research Centre 1415 “Chemistry of Synthetic Two-Dimensional Materials”, Dresden, Germany, *Novel Non-Benzenoid Carbon Allotropes by On-Surface Synthesis*
110. 03.10.2022 – Colloquium, Catalan Institute of Nanoscience and Nanotechnology and acronym (ICN2), Barcelona, Spain, *On-Surface Synthesis as a Versatile Route to Novel Non-Benzenoid Carbon Allotropes*
109. 30.09.2022 – Invited lecture, On-Surface Synthesis International Workshop (OSS-22), Sant Feliu de Guixols, Spain, 25-30 September 2022, *Nonbenzenoid Graphene Isomers by On-Surface Synthesis*
108. 23.08.2022 – Invited lecture, 29th Conference of the Condensed Matter Division of the European Physical Society (CMD-29), Manchester, UK, 21-26 Aug 2022, *Fluoroarenes in On-Surface Synthesis and Organic/TMDC Hybrid Interfaces*
107. 15.07.2022 – Invited lecture, International Conference on Porphyrins and Phthalocyanines (ICPP-12), Madrid, Spain, 10-15 July 2022, *Interface Chemistry of Expanded and Contracted Oligopyrroles: On-Surface Synthesis and Electronic Properties*

106. 26.05.2022 – Invited lecture, National University of Singapore, Faculty of Science, Department of Chemistry Seminar Series, *Novel Non-Benzenoid Graphene Isomers by On-Surface Synthesis (online)*
105. 10.05.2022 – Invited lecture, CNRS GDR HOWDI Annual Meeting, Low-Dimensional van der Waals Heterostructures, Dourdan, France, 9-13 May 2022, *Nonbenzenoid Carbon Allotropes Made by On-Surface Synthesis*
104. 16.03.2022 – Invited lecture, OsMolsys Seminar Series, *Non-benzenoid carbon allotropes: On-surface synthesis and interfacial bonding (online)*
103. 15.03.2022 – Colloquium, Peter Grünberg Institute for Quantum Nanoscience (PGI-3), Forschungszentrum Jülich, *Non-benzenoid carbon allotropes: On-surface synthesis and interfacial bonding (online)*
102. 21.01.2022 – Invited lecture, NJUST-KU-Workshop 2022 on Catalysis & Energy Materials Research, Nanjing, China (hybrid conference), 20-21 January 2022, *On-surface reactions on carbon-based nanomaterials (online)*
101. 01.03.2021 – Colloquium, Christian-Albrechts-Universität zu Kiel, *Carbon-Based and Metal-Organic Functional Nanosystems at Surfaces and Interfaces (online)*
100. 23.12.2020 – Invited lecture, online symposium “Surface Science and Catalysis Studied by Advanced Techniques”, University of Science and Technology of China (USTC), *Surface – Interface – Device: The Versatile World of Low-Dimensional Carbon-Based Materials (online)*
99. 22.09.2020 – Invited lecture, On-Surface Synthesis International Workshop (OSS-20), Sant Feliu de Guixols, Spain, 20-25 September 2020, *Nonalternant Conjugated  $\pi$ -Electron Systems in On-Surface Synthesis* (cancelled because of COVID-19)
98. 08.04.2020 – Colloquium, Fritz-Haber-Institut der Max-Planck-Gesellschaft, Berlin, Germany, *Functional Nanomaterials in 2D Confinement: Surface Reactions, Topology, Aromaticity* (cancelled because of COVID-19)
97. 11.02.2020 – Colloquium, Universität Ulm, Ulm, Germany, *Surface, Interface, Material: Advanced Spectroscopy and Microscopy on Complex Model Systems*
96. 26.08.2019 – Invited Lecture, American Chemical Society (ACS) Meeting, "Adsorption and Reaction at Surfaces: Symposium in Honor of Charles T. Campbell", San Diego, USA, August 25-29, 2019. *Synthetic Surface Chemistry: A Versatile Route to Low-Dimensional Nanostructures*
95. 04.07.2019 – Invited Lecture, 21<sup>st</sup> International Vacuum Congress (IVC-21), 17th International Conference on Surface Science (ICSS-17), 2019 International Conference on Nanoscience + Technology (ICN+T 2019), and NanoForum 2019, Malmö, Sweden July 1-5, 2019. *Carbon-Based Functional Nanomaterials in 2D Confinement: On-Surface Synthesis, Aromaticity, and Molecular Topology*
94. 07.02.2019 – Invited lecture, Symposium "40 Years of Surface Science", Erlangen, 07 February 2019, *Synthetic Surface Chemistry: A Versatile Route to Low-Dimensional Nanostructures*
93. 18.12.2018 – Invited lecture, 10<sup>th</sup> Singapore International Chemical Conference (SICC-10), Singapore, 16-19 December 2018, *Molecular Topology and Surface Chemical Bond: Alternant vs. Non-Alternant Aromatic Systems as Functional Structural Elements*
92. 04.12.2018 – Colloquium, Charles University Prague, *Carbon-Based Nanomaterials in 2D Confinement: Surface Reactions, Aromaticity and Molecular Topology*

91. 09.10.2018 – Invited lecture, Autumn School on Surface Chemical Physics and Functional Interfaces, Schönau am Königsee, Berchtesgaden, Germany, 08-11 October 2018, *Carbon-Based Nanomaterials: Synthesis and Characterization in 2D Confinement*
90. 04.10.2018 – Colloquium, Department of Physics, University of Stavanger, Norway, *Surface Science of Low-Dimensional Carbon-Based Nanostructures*
89. 24.09.2018 – Invited lecture, On-Surface Synthesis International Workshop (OSS-18), Sant Feliu de Guixols, Spain, 23-28 September 2018, *Carbon-Based Nanomaterials: Synthesis and Characterization in 2D Confinement*
88. 04.09.2018 – Invited lecture, International Workshop on Synchrotron Radiation Spectroscopies for Energy Related Materials, Hefei, China, 02-05 September 2018, *Quantitative Model Studies of Metal/Organic Interfaces*
87. 27.08.2018 – Invited lecture, 34<sup>th</sup> European Conference on Surface Science (ECOSS-34), Satellite Meeting "Molecular Reaction on Surfaces" Aarhus, Denmark, 26-31 September 2018, *On-Surface Synthesis of Cyclic and Open-Chain Carbon-Based Nanomaterials*
86. 05.07.2018 – Invited lecture, 10<sup>th</sup> International Conference on Porphyrins and Phthalocyanines (ICPP-10), Munich, Germany, July 01-06, 2018, *Interface Chemistry of Expanded and Contracted Oligopyrroles: On-Surface Synthesis, Reactions, and Electronic Properties*
85. 15.05.2018 – Colloquium, University of Washington, WA, Seattle, USA, *Non-Alternant Aromatic Molecules and Synthetic Surface Chemistry*
84. 13.05.2018 – Invited lecture, 233rd Meeting of The Electrochemical Society (ECS), Seattle, WA, USA, May 13 – 17, 2018, *Assemblies of Expanded and Contracted Oligopyrroles: On-Surface Synthesis, Reactions, and Electronic Properties*
83. 26.04.2018 – GDCh Colloquium, Universität Kiel, Germany, *Synthetic Surface Chemistry: A Versatile Route to Novel Organic Molecules, Polymers, and Metal Complexes*
82. 15.03.2018 – Colloquium, Universität Wien, Vienna, Austria, *Advanced Spectroscopy and Microscopy at Complex Interfaces*
81. 08.12.2017 – Invited lecture, 3<sup>rd</sup> Joint Workshop SFB1073 & 1083, Göttingen, Germany, December 8, 2017, *Interface Chemistry of Reactive Tetrapyrroles*
80. 07.11.2017 – Colloquium, Universität Mainz, *Surface and Interface Chemistry of Reactive Tetrapyrroles*
79. 18.07.2017 – Invited lecture, funCOS Seminar (FOR 1878: Functional Molecular Structures on Complex Oxide Surfaces), Erlangen, Germany, *Synthetic Surface Chemistry: Formation of Macrocycles and Nanostructures in Confinement*
78. 30.06.2017 – Invited lecture, 8<sup>th</sup> International Workshop on Surface Physics (IWSP-2017), 26-30 June 2017, Trzebnica/Wrocław, Poland, *Surface science of reactive aromatic molecules*
77. 17.05.2017 – Colloquium, Universität Köln, Germany, *Advanced Spectroscopy and Microscopy at Complex Interfaces*
76. 23.01.2017 – Colloquium, Freie Universität Berlin, Germany, *Advanced Spectroscopy and Microscopy at Complex Interfaces*

75. 14.12.2016 – Invited lecture, Symposium “Advanced Microscopy and Spectroscopy of Supramolecular and Macromolecular Systems on Surfaces”, December 12-16, 2016, Hong Kong, China, *Aromatic Macrocycles at Interfaces*
74. 05.12.2016 – Invited lecture, Wilhelm Ostwald Colloquium, University Leipzig, Germany, *Interface-Assisted Synthesis: A Versatile Route to Novel Organic Molecules, Polymers and Metal Complexes*
73. 06.09.2016 – Invited lecture, Symposium "Functional Molecules at Surfaces", 26<sup>th</sup> Conference of the EPS Condensed Matter Division (CMD-26), Groningen, The Netherlands, September 4-9, 2016, *Surface chemistry with reactive aromatic molecules and metal complexes*
72. 24.06.2016 – Colloquium, Friedrich-Schiller-Universität Jena, Jena, Germany, *Surface Science of Porphyrins, Phthalocyanines, and Corroles*
71. 10.06.2016 – Invited lecture (SCS Lectureship of the Swiss Chemical Society), Universität Genf, Geneva, Switzerland, *Organometallic and coordination chemistry on surfaces*
70. 09.06.2016 – Invited lecture (SCS Lectureship of the Swiss Chemical Society), École polytechnique fédérale de Lausanne (EPFL), Lausanne, Switzerland, *Surface assisted synthesis – a versatile route to novel organic molecules and polymers*
69. 08.06.2016 – Invited lecture (SCS Lectureship of the Swiss Chemical Society), ETH Zürich, Zurich, Switzerland, *Surface-assisted synthesis - a versatile route to novel organic molecules and polymers*
68. 07.06.2016 – Invited lecture (SCS Lectureship of the Swiss Chemical Society), Universität Zürich, Zurich, Switzerland, *Surface chemistry of porphyrins, phthalocyanines and other reactive tetrapyrroles*
67. 06.06.2016 – Invited lecture (SCS Lectureship of the Swiss Chemical Society), EMPA Dübendorf, Switzerland, *Beyond the hexagon: Surface chemistry of non-alternant aromatic molecules*
66. 12.05.2016 – Invited Lecture, Symposium "Understanding of Advanced Functional Materials", Uppsala, Sweden, *Interface Chemistry of Reactive Aromatic Molecules and Metal Complexes*
65. 26.04.2016 – Colloquium, Technische Universität Ilmenau, Germany, *Surface Science of Reactive Aromatic Molecules and Metal Complexes*
64. 09.11.2015 - Invited lecture, 1<sup>st</sup> funCOS International Workshop, Functional Molecular Structures on Complex Oxide Surfaces (FOR 1878), Erlangen, November 8-10, 2015, *Surface-assisted synthesis - a versatile route to novel organic molecules and metal complexes*
63. 01.10.2015 - Invited lecture, FISMAT 2015 - Conference on Condensed Matter Physics, Palermo, Italy, September 28 - October 2, 2015, *On-surface synthesis of metal complexes, organic molecules and organometallic compounds*
62. 04.08.2015 - Colloquium, Tongji-University Shanghai, China, *Surface Chemistry of Porphyrins and other Reactive Aromatic Molecules*
61. 27.07.2015 - Colloquium, University of Science and Technology of China, *Surface Chemistry of Porphyrins, Phthalocyanines, and Corroles*

60. 19.03.2015 – Invited lecture, Annual Meeting of the German Physical Society (DPG), Berlin, March 15-20, 2015, *On-surface synthesis of molecular and polymeric nanostructures*
59. 21.01.2015 – Colloquium, Eberhard Karls Universität Tübingen, Germany, *Surface Chemistry of Reactive Aromatic Molecules*
58. 09.07.2014 – Colloquium, Max-Planck-Institute for Solid State Research, Stuttgart, Germany, *Synthesis in flatland: Metal complexes, macrocycles and nanowires made by surface-assisted reactions*
57. 07.07.2014 – Colloquium, Karlsruhe Institute for Technology, Karlsruhe, Germany, *Synthesis in flatland: Metal complexes, macrocycles and nanowires made by surface-assisted reactions*
56. 27.06.2014 – Invited Lecture, 8<sup>th</sup> International Conference on Porphyrins and Phthalocyanines (ICPP-7), Istanbul, Turkey, June 22 - 27, 2014. *Surface coordination and magnetochemistry with tetrapyrrole complexes*
55. 30.05.2014 – Invited lecture, Workshop "On surface synthesis", Ecole de Physique des Houches, May 25-30, 2014, *On-surface synthesis of metal complexes and organic/organometallic compounds*
54. 06.11.2013 – GDCh-Colloquium, Friedrich-Schiller-Universität Jena, Germany, *Reactive nanostructuring of interfaces: Bridges between surface science, coordination chemistry and organic synthesis*
53. 03.06.2013 – Colloquium, Karl-Franzens-Universität Graz, Österreich, *Reaktive Nanostrukturierung von Oberflächen: Porphyrine, Metallorganische Netzwerke und Nanogehege, Ionische Flüssigkeiten*
52. 27.11.2012 – Colloquium, Universität Ulm, Institut für Elektrochemie, Ulm, Germany, *Bridges between Surface Science and Coordination Chemistry: Porphyrins, Metal-Organic Networks and Ionic Liquids*
51. 24.09.2012 – Colloquium, Institute for Advanced Study, Laboratory for Nanoscience and Nanotechnology, Nanchang University, Nanchang, China, *Surface Science with Metal Complexes*
50. 13.08.2012 – Colloquium, State Key Laboratory of Physical Chemistry of Solid Surfaces, Xiamen, China – *Surface Reactions of Coordination Compounds*
49. 12.08.2012 – Invited Lecture, Symposium on Synchrotron Radiation, Xiamen, China. *Surface Chemistry of Catalysis by Gold*
48. 10.08.2012 – Colloquium, University of Science and Technology of Hongkong, Hongkong, China. *Metal complexes at interfaces*
47. 10.07.2012 – Invited Lecture, Materialforschungstag Mittelhessen 2012, Marburg, Germany. *Chemistry at metal / organic interfaces*
46. 03.07.2012 – Invited Lecture, 7<sup>th</sup> International Conference on Porphyrins and Phthalocyanines (ICPP-7), Jeju Island, South Korea, July 1 - 6, 2012. *Novel aspects of surface coordination chemistry with multifunctional ligands*
45. 30.03.2012 – Colloquium, National Synchrotron Radiation Laboratory, Hefei, China, *Surface science meets coordination chemistry: Metal complexes at interfaces*

44. 22.03.2012 – Seminar, University of Science and Technology of China (USTC), *Applications of Synchrotron Radiation in Surface Science*
43. 11.01.2012 – Colloquium, Universität Graz, Austria, *Surface Chemistry of Complex Model Systems – Porphyrins, Polymers and Ionic Liquids*.
42. 04.11.2011 – Colloquium, Universität Bonn, *Porphyrins on Surfaces: Metalation, Network Formation and Surface Trans Effect*.
41. 06.10.2011 – Invited Lecture, 11th International Conference on Atomically Controlled Surfaces, Interfaces and Nanostructures (ACSIN-11), St. Petersburg, Russia, October 3-7, 2011. *Surface-confined coordination chemistry with porphyrins*
40. 09.06.2011 – Colloquium, Technische Universität München, *Novel aspects of surface coordination chemistry with porphyrins*
39. 14.04.2011 – Colloquium, Universität Marburg, Germany, *Surface chemistry of porphyrins and other complex model systems*
38. 09.07.2010 – Invited Lecture, 6<sup>th</sup> International Conference on Porphyrins and Phthalocyanines (ICPP-6), July 5-9, 2010, New Mexico, USA. *Metalloporphyrin complexes at solid and liquid surfaces: Formation, redox chemistry and surface coordinative bond*
37. 16.06.2010 – Colloquium, Jagiellonian University Krakow, Poland, *Surface Chemistry of Catalysis by Gold – From Fundamental to Complex Model Systems*
36. 07.06.2010 – Colloquium, Ruhr-Universität Bochum, Germany, *Chemie an komplexen Oberflächen: Porphyrine, Polymere und ionische Flüssigkeiten* (Vorstellungsvortrag Nachfolge C. Wöll).
35. 14.05.2010 – Keynote Lecture (Fortschrittsbericht), 109. Jahrestagung der Bunsen-Gesellschaft für Physikalische Chemie (Bunsen-Tagung), Bielefeld, May 13-15, 2010. *Interfacial coordination chemistry with porphyrins*.
34. 06.05.2010 – Colloquium, Universität Marburg, Germany, *Reactions at complex surfaces*.
33. 14.04.2010 – Colloquium, Universität Leipzig, Germany, *Complex surfaces: From porphyrins to polymers and ionic liquids*
32. 11.12.2009 – Colloquium, Freie Universität Berlin, Germany, *Surface Chemistry of Porphyrins and other Complex Adsorbate Systems*.
31. 08.12.2009 – Habilitationsvortrag, Friedrich-Alexander-Universität Erlangen-Nürnberg, Germany, *Oberflächenchemie von Porphyrinen und anderen komplexen Adsorbatsystemen*
30. 08.07.2009 – Colloquium, Institute of Bio- and Nanosystems, Forschungszentrum Jülich, Germany, *Surface Chemistry with Porphyrins*.
29. 02.07.2009 – Colloquium, Universität Bremen, Germany, *Catalysis by Gold – Fundamental and Complex Model Systems*
28. 27.04.2009 – Colloquium, Nanchang University, Institute of Advanced Studies, Nanchang, Jiangxi, China, *Adsorption and Surface Reactions of Redox-Active Planar Metal Complexes*
27. 24.04.2009 – Colloquium, National Laboratory for Physical Sciences at the Microscale, Department of Chemical Physics, University of Science and Technology of China, Hefei, Anhui, China, *Surface Chemistry of Gold Catalysis and Ionic Liquids*

26. 10.04.2009 – Colloquium, National Synchrotron Radiation Laboratory, Hefei, Anhui, China, *Surface Coordination Chemistry with Porphyrins*
25. 23.03.2009 – Keynote Lecture (Hauptvortrag), Annual Meeting of the German Physical Society (DPG), Dresden, March 22-27, 2009, *Surface-confined coordination chemistry with porphyrins and phthalocyanines*.
24. 26.02.2009 – Colloquium, University of St Andrews, UK, *Surface Functionalisation with Porphyrins and other Planar Metal Complexes*.
23. 23.02.2009 – Colloquium, University of Reading, UK, *Coordination Chemistry at Surfaces*.
22. 18.02.2009 – Colloquium, University of Liverpool, UK, *Surface Chemistry with Porphyrins*.
21. 13.02.2009 – Colloquium, Universität Ulm, *Surface-confined coordination chemistry with porphyrins and phthalocyanines*.
20. 28.11.2008 – Festkolloquium zum 65. Geburtstag von Prof. Dr. Klaus Christmann, Freie Universität Berlin, Germany, *Surface Chemistry of Metal Complexes and Ionic Liquids*
19. 14.11.2008 – Colloquium, Universität Bremen, Germany, *Metallkomplexe und Koordinationschemie an festen und flüssigen Oberflächen*
18. 26.08.2008 – Colloquium, University of Washington, Seattle, USA, *Coordination Compounds at Solid and Liquid Surfaces: Formation, Electronic Structure, and Reactivity*
17. 16.05.2008 – CERC-3 Young Chemists' Workshop "Surface Chemistry of Nanomaterials", Vienna, Austria, *Surface functionalization with metalloporphyrin and metallophthalocyanine complexes* (nominated by the Deutsche Forschungsgemeinschaft).
16. 21.04.2008 – DFG Rundgespräch „Grenzflächenprozesse bei Energiespeicherung und -umwandlung“ Harnack-Haus der Max-Planck-Gesellschaft, Berlin, *In-situ Untersuchungen von Elektrodenprozessen mittels Photoelektronenspektroskopie*
15. 06.12.2007 – Colloquium, Technische Universität München, Germany, *Coordination Chemistry at Solid and Liquid Surfaces*.
14. 28.06.2007 – Colloquium, Universität Bonn, Germany, *Aromatic hydrocarbons and metalloporphyrins on surfaces: What can we learn from adsorption calorimetry and photoelectron spectroscopy?*
13. 21.06.2007 – Colloquium, EMPA Dübendorf, Switzerland, *Functionalization of solid and liquid surfaces with coordination compounds*.
12. 20.06.2007 – Colloquium, ETH Zürich, Switzerland, *Aromatic molecules on surfaces studied with adsorption calorimetry and photoelectron spectroscopy*.
11. 08.06.2007 – Colloquium, Universität Erlangen-Nürnberg, Germany, *Adsorption und Reaktivität redoxaktiver Metalloporphyrine*.
10. 06.06.2007 – Colloquium, Technische Universität Ilmenau, Germany, *Functionalization of solid and liquid surfaces with coordination compounds*.
9. 28.03.2007 – Invited lecture, 233rd ACS National Meeting, Chicago, IL, March 25-29, 2007, *Surface-confined coordination chemistry with metalloporphyrins: In-situ metalation and competitive axial coordination*.

8. 06.02.2007 – Colloquium, Friedrich-Alexander-Universität Universität Erlangen-Nürnberg, Germany, *Energetics and Kinetics of Reactions on Simple and Complex Surfaces*.
7. 17.01.2007 – Colloquium, Freie Universität Berlin, Germany, *Coordination Chemistry at Solid and Liquid Surfaces*
6. 08.12.2006 – Colloquium, Friedrich-Alexander-Universität Erlangen-Nürnberg, Germany, *Surface-confined coordination chemistry: A photoelectron spectroscopy study of metalloporphyrins on Ag(111)*.
5. 02.06.2006 – Colloquium, Friedrich-Alexander-Universität Erlangen-Nürnberg, Germany, *Coordination Chemistry of Adsorbed Metalloporphyrins Studied with Photoelectron Spectroscopy*.
4. 23.08.2005 – Colloquium, University of Washington, Seattle, USA, *Metal Complexes on Surfaces: Adsorption of Co(II)-Porphyrins on Ag(111)*
3. 26.01.2005 – Colloquium, Friedrich-Alexander-Universität Erlangen-Nürnberg, Germany, *Adsorption Microcalorimetry on Single Crystal Surfaces*
2. 02.11.2004 – Colloquium, Freie Universität Berlin, Germany, *Direkte Messungen von Adsorptionswärmen: Mikrokalorimetrie an Einkristallen*
1. 27.04.2004 – Colloquium, Friedrich-Alexander-Universität Erlangen-Nürnberg, Germany, *Oxidation of Carbon Monoxide over Gold*

**G. Conference Contributions** (underlined: presenting author, P = poster, L = lecture)

1. **J.M. Gottfried**, K. Schmidt, S.L.M. Schroeder, K. Christmann, *UHV-Modellstudien zum Mechanismus der CO-Oxidation an Gold*, XXXII. Jahrestreffen Deutscher Katalytiker 1999, V 7. (L)
2. **J.M. Gottfried**, K. Schmidt, S.L.M. Schroeder, K. Christmann, *Wechselwirkung von Sauerstoff mit der Au(110)-(1×2)-Oberfläche*, Verhandl. DPG (IV) 34, 877 (1999). (L)
3. **J.M. Gottfried**, K. Schmidt, R. Cames, S.L.M. Schroeder, K. Christmann, *Molecularly and atomically adsorbed oxygen on Au(110)-(1×2)*, ECOSS 18, Vienna 1999. (P)
4. **J.M. Gottfried**, K. Schmidt, K. Christmann, S.L.M. Schroeder, *Interaction of CO and CO<sub>2</sub> with clean and oxygen-precovered Au(110)-(1×2)*, ECOSS 18, Vienna 1999. (P)
5. **J.M. Gottfried**, K. Schmidt, R. Cames, S.L.M. Schroeder, K. Christmann, *Interaction of CO and CO<sub>2</sub> with clean and oxygen-precovered Au(110)-(1×2)*, BESSY-Jahrestreffen 1999. (P)
6. **J.M. Gottfried**, K. Schmidt, A. Heiland, S.L.M. Schroeder, K. Christmann, *Wechselwirkung von CO und CO<sub>2</sub> mit einer reinen und sauerstoffvorbelegten Au(110)-(1×2)-Oberfläche*, Verhandl. DPG (VI) 35 (2000) 1/694. (P)
7. **J.M. Gottfried**, K. Schmidt, R. Cames, S.L.M. Schroeder, K. Christmann, *Spontane und elektronenstimulierte Adsorption von Sauerstoff auf Au(110)-(1×2)*, Verhandl. DPG (VI) 35 (2000) 1/685. (P)
8. **J.M. Gottfried**, K.J. Schmidt, S.L.M. Schroeder, K. Christmann, *Adsorption of Methanol and Water on Au(110)-(1×2): A Comparative Study*, ECOSS 19, Madrid 2000. (P)
9. **J.M. Gottfried**, K.J. Schmidt, S.L.M. Schroeder, K. Christmann, *Adsorption of Ethylene and Carbon Monoxide on Au(110)-(1×2)*, ECOSS 19, Madrid 2000. (P)
10. **J.M. Gottfried**, K.J. Schmidt, S.L.M. Schroeder, K. Christmann, *Adsorption von Methanol und Wasser auf Au(110)-(1×2)*, Verhandl. DPG (VI) 36 (2001) 1/358. (L)
11. **J.M. Gottfried**, S.L.M. Schroeder, K. Christmann, *Chemisorption von Sauerstoff auf einer Goldoberfläche*, 101. Jahrestagung der Bunsen-Gesellschaft für Physikalische Chemie (Bunsen-Tagung), Potsdam 2002. (L)
12. **J.M. Gottfried**, S.L.M. Schroeder, K. Christmann, *Oxidation einer Au(110)-(1×2)-Oberfläche*, Verhandl. DPG (VI) 37 (2002) 1/301. (L)
13. K.J. Schmidt, **J.M. Gottfried**, K. Christmann, *Adsorption of Krypton and Xenon on Au(110)-(1×2)*, Verhandl. DPG (VI) 38 (2003) 5/386. (L)
14. **J.M. Gottfried**, K.J. Schmidt, K. Christmann, *Adsorption of Carbon Monoxide on Au(110)-(1×2)*, Verhandl. DPG (VI) 38 (2003) 5/411. (L)
15. **J.M. Gottfried**, K.J. Schmidt, K. Christmann, *Adsorption und Reaktion von Kohlenmonoxid auf einer Goldoberfläche*, 102. Jahrestagung der Bunsen-Gesellschaft für Physikalische Chemie (Bunsen-Tagung), Kiel 2003. (P)
16. **J.M. Gottfried** and K. Christmann, *CO Oxidation over Gold*, ECOSS 22, Prague 2003. (P)
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166. **J.M. Gottfried**, *Surface-assisted synthesis - a versatile route to novel organic molecules and metal complexes*, 1<sup>st</sup> funCOS International Workshop, Functional Molecular Structures on Complex Oxide Surfaces (FOR 1878), Erlangen, November 8-10, 2015. (Invited L)
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176. M. Schmid, M. Chen, M. Zugermeier, L. Ruppenthal, F. Niefind, J. Herritsch, R. Tonner, **J.M. Gottfried**, *Tuning of the oxidation state of metal ions by using alternative tetrapyrrole ligands: Synthesis of Co(III) and Ni(III)-corroles on Ag(111)*, 32nd European Conference on Surface Science, ECOS-32, Grenoble, France, August 28-September 2, 2016. (L)
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180. M. Schmid, M. Chen, K. Ishioka, A. Beyer, B.P. Klein, C.K. Krug, M. Sachs, W. Stolz, K. Volz, U. Höfer, **J.M. Gottfried**, *Interphase Formation and Band Bending in Organic and Inorganic Semiconductor Films Examined with Hard X-ray Photoelectron Spectroscopy*,

- Annual Meeting of the German Physical Society (DPG), Dresden, March 19-24, 2017. (L)
181. M. Schöniger, S.R. Kachel, M. Schmid, **J.M. Gottfried**, *Topology Dependent Molecule-Substrate Interactions: Azulene vs. Naphthalene in Temperature-Programmed Desorption*, Annual Meeting of the German Physical Society (DPG), Dresden, March 19-24, 2017. (P)
182. M. Zugermeier, M. Chen, L. Heuplick, M. Liebold, N. Bock, F. Niefind, L. Ruppenthal, M. Schmid, P. Schweyen, M. Bröring, J. Sundermeyer, **J.M. Gottfried**, *On-Surface Synthesis of Naphthalocyanine and Corrole Complexes*, Annual Meeting of the German Physical Society (DPG), Dresden, March 19-24, 2017. (P)
183. Q.T. Fan, C.C. Wang, T. Wang, J.F. Zhu, M. Chen, M. Zugermeier, C.K. Krug, J. Kuttner, G. Hilt, W. Hieringer, **J.M. Gottfried**, *On-surface synthesis of macrocycles*, Annual Meeting of the German Physical Society (DPG), Dresden, March 19-24, 2017. (L)
184. Q.T. Fan, C.C. Wang, T. Wang, J.F. Zhu, M. Chen, C.K. Krug, M. Zugermeier, J. Kuttner, G. Hilt, W. Hieringer, **J.M. Gottfried**, *On-surface synthesis of low-dimensional nanostructures from haloarenes*, Annual Meeting of the German Physical Society (DPG), Dresden, March 19-24, 2017. (P)
185. Q.T. Fan, C.C. Wang, T. Wang, J.F. Zhu, M. Chen, M. Zugermeier, C.K. Krug, J. Kuttner, G. Hilt, W. Hieringer, **J.M. Gottfried**, *Template-Controlled On-Surface Synthesis of Macrocycles*, 116<sup>th</sup> General Assembly of the German Bunsen Society for Physical Chemistry, Kaiserslautern, May 25-27, 2017. (P)
186. B.P. Klein, N. van der Heijden, C.K. Krug, M. Schöniger, P. Rosenow, M. Schmid, R. Tonner, I. Swart, **J.M. Gottfried**, *Molecular Topology and Metal/Organic Interfaces*, 116<sup>th</sup> General Assembly of the German Bunsen Society for Physical Chemistry, Kaiserslautern, May 25-27, 2017. (L)
187. C.K. Krug, M. Chen, Q.T. Fan, J. Kuttner, M. Schmid, G. Hilt, J.F. Zhu, **J.M. Gottfried**, *Ullmann Coupling at Coinage Metal Surfaces*, 116<sup>th</sup> General Assembly of the German Bunsen Society for Physical Chemistry, Kaiserslautern, May 25-27, 2017. (P)
188. M. Zugermeier, M. Chen, H.-J. Drescher, L. Heuplick, B.P. Klein, C.K. Krug, M. Liebold, F. Niefind, L. Ruppenthal, M. Schmid, P. Schweyen, H. Zhou, M. Bröring, J. Sundermeyer, **J.M. Gottfried**, *Synthesis, Metalation and Structures of Tetrapyrroles at Interfaces*, 116<sup>th</sup> General Assembly of the German Bunsen Society for Physical Chemistry, Kaiserslautern, May 25-27, 2017. (P)
189. M. Schmid, M. Zugermeier, B.P. Klein, C.K. Krug, S.R. Kachel, **J.M. Gottfried**, *Examination of Buried Interfaces Between Transition Metal Layers and Tetrapyrrole Films with Hard X-ray Photoelectron Spectroscopy*, 116<sup>th</sup> General Assembly of the German Bunsen Society for Physical Chemistry, Kaiserslautern, May 25-27, 2017. (L)
190. B.P. Klein, N. van der Heijden, C.K. Krug, M. Schöniger, P. Rosenow, M. Schmid, R. Tonner, I. Swart, **J.M. Gottfried**, *Molecular Topology and Metal/Organic Interfaces*, 33rd European Conference on Surface Science (ECOSS-32), Szeged, Hungary, August 27-September 1, 2017. (L)
191. M. Zugermeier, M. Chen, H.-J. Drescher, L. Heuplick, B.P. Klein, C.K. Krug, M. Liebold, F. Niefind, L. Ruppenthal, M. Schmid, P. Schweyen, H. Zhou, M. Bröring, J. Sundermeyer, **J.M. Gottfried**, *Synthesis, Metalation and Structures of Tetrapyrroles at Interfaces*, 33rd European Conference on Surface Science (ECOSS-32), Szeged, Hungary, August 27-September 1, 2017. (P)
192. J.F. Zhu, Q. Fan, **J.M. Gottfried**, *Tailoring the topology of low-dimensional organic nanostructures with surface templates*, 33rd European Conference on Surface Science (ECOSS-32), Szeged, Hungary, August 27-September 1, 2017. (L)

193. J.-N. Luy, **J.M. Gottfried**, R. Tonner, *Density functional studies of tetrapyrroles on Ag(111)*, 11<sup>th</sup> Triennial Congress of the World Association of Theoretical and Computational Chemists (WATOC 2017), Munich, Germany, August 27-September 1, 2017. (L)
194. M. Schmid, **J.M. Gottfried**, *Interphase Formation in Organic Semiconductor Films Examined with Hard X-ray Photoelectron Spectroscopy*, 7th Bonn Humboldt Award Winners' Forum "Fundamental Concepts and Principles of Chemical Energy Conversion", October 14-19, 2017, Bonn, Germany. (P)
195. M. Schmid, B. P. Klein, C. K. Krug, S. R. Kachel, **J.M. Gottfried**, *Examination of Metal-Organic Interphases with Hard X-Ray Photoelectron Spectroscopy (HAXPES)*, 655. WE-Heraeus-Seminar: Surfaces and Interfaces of Ionic Liquids, 03.12.2017- 06.12.2017 Physikzentrum Bad Honnef, Germany. (P)
196. Q. Fan, S.R. Kachel, C. Wang, J. Zhu, J.I. Martínez, J.A. Martín-Gago, M. Schmid, **J.M. Gottfried**, *Reactions of organic molecules on oxide surfaces*, 663. WE-Heraeus-Seminar: Dynamics and Structure Formation of Organic Molecules on Dielectric Surfaces, 25.-28.02.2018, Physikzentrum Bad Honnef, Germany. (P)
197. **J.M. Gottfried**, Q.T. Fan, J.F. Zhu, C. Krug, K. Greulich, *On-Surface Synthesis of Polymers and Macrocycles*, 255th ACS National Meeting & Exposition, March 18-22, 2018. New Orleans, Louisiana, USA. (L)
198. B.P. Klein, N. van der Heijden, M. Franke, C.K. Krug, S.R. Kachel, P. Rosenow, M. Schmid, R. Tonner, I. Swart, C. Kumpf, **J.M. Gottfried**, *Molecular Topology and Surface Chemical Bond: Alternant vs. Non-Alternant Aromatic Molecules*, 255th ACS National Meeting & Exposition, March 18-22, 2018. New Orleans, Louisiana, USA. (L)
199. B.P. Klein, N. van der Heijden, M. Franke, C.K. Krug, S.R. Kachel, P. Rosenow, M. Schmid, R. Tonner, I. Swart, C. Kumpf, **J.M. Gottfried**, *A Molecular Model System for 5-7 Defects in Graphene*, 255th ACS National Meeting & Exposition, March 18-22, 2018. New Orleans, Louisiana, USA. (P)
200. M. Schmid, S.R. Kachel, J. Hochstraßer, B. Klein, **J.M. Gottfried**, *Characterization of reaction layers between metals and organic thin films with hard X-ray photoelectron spectroscopy*, 117<sup>th</sup> General Assembly of the German Bunsen Society for Physical Chemistry, Hannover, May 10-12, 2018. (L)
201. M. Zugermeier, M. Gruber, M. Schmid, B.P. Klein, L. Ruppenthal, P. Müller, R. Einholz, W. Hieringer, R. Berndt, H.F. Bettinger, **J.M. Gottfried**, *On-Surface Synthesis of Heptacene and its Interaction with a Metal Surface*, Annual Meeting of the German Physical Society (DPG), Berlin, March 11-16, 2018. (L)
202. B.P. Klein, M. Franke, C.K. Krug, S.R. Kachel, P. Rosenow, F. Posseik, M. Schmid, R.J. Maurer, R. Tonner, C. Kumpf, **J.M. Gottfried**, *A Molecular Model System for 5-7 Defects in Graphene*, Annual Meeting of the German Physical Society (DPG), Berlin, March 11-16, 2018. (L)
203. I. Piquero-Zulaica, A. García-Lekue, C.K. Krug, J.E. Ortega, **J.M. Gottfried**, J. Lobo-Checa, *Electronic band structure of poly (meta-phenylene) zigzag chains*, Annual Meeting of the German Physical Society (DPG), Berlin, March 11-16, 2018. (L)
204. Q.T. Fan, S. Werner, J. Tschakert, D. Ebeling, A. Schirmeisen, W. Hieringer, **J.M. Gottfried**, *Precise mono-selective aromatic C-H activation by chemisorption of meta-aryne on a metal surface*, Annual Meeting of the German Physical Society (DPG), Berlin, March 11-16, 2018. (L)
205. S.R. Kachel, B.P. Klein, J. Hochstraßer, M. Schmid, S. Seiler, B. Meyer, **J.M. Gottfried**, *Adsorption energies of aromatic molecules from quantitative TPD*, Annual Meeting of the German Physical Society (DPG), Berlin, March 11-16, 2018. (L)

206. S. Seiler, S.R. Kachel, J. Hochstraßer, **J.M. Gottfried**, B. Meyer, *A simple modification of Grimme's D3 density functional dispersion correction scheme for more accurate adsorption energies of organic molecules on surfaces*, Annual Meeting of the German Physical Society (DPG), Berlin, March 11-16, 2018. (L)
207. L. Ruppenthal, B.P. Klein, N.J. van der Heijden, M. Franke, C.K. Krug, S.R. Kachel, P. Rosenow, F. Posseik, M. Schmid, R. Tonner, I. Swart, C. Kumpf, **J.M. Gottfried**, *Surface Chemical Bond of a Non-Alternant Aromatic Molecule on Metal Substrates*, Annual Meeting of the German Physical Society (DPG), Berlin, March 11-16, 2018. (P)
208. S.R. Kachel, B.P. Klein, M. Schöniger, M. Hutter, M. Schmid, **J.M. Gottfried**, *Intermolecular Repulsion at Metal/Organic Interfaces: A Quantitative TPD Study*, Annual Meeting of the German Physical Society (DPG), Berlin, March 11-16, 2018. (P)
209. J. Hochstraßer, L. Hellweg, S.R. Kachel, M. Schmid, **J.M. Gottfried**, *Benzene on Ag(111) and Cu(111): A quantitative TPD study*, Annual Meeting of the German Physical Society (DPG), Berlin, March 11-16, 2018. (P)
210. M. Schöniger, M. Schmid, **J.M. Gottfried**, *Investigation of Metal-Organic Interfaces by Adsorption Calorimetry*, Annual Meeting of the German Physical Society (DPG), Berlin, March 11-16, 2018. (P)
211. C.K. Krug, Q.T. Fan, F. Fillsack, J. Glowatzki, N. Trebel, M. Schmid, **J.M. Gottfried**, *Ullmann Coupling of 1,3-Dibromoazulene*, Annual Meeting of the German Physical Society (DPG), Berlin, March 11-16, 2018. (P)
212. J. Herritsch, M. Zugermeier, M. Chen, Q.T. Fan, M. Schmid, **J.M. Gottfried**, *On-Surface Metalation of Corrole Ligands*, Annual Meeting of the German Physical Society (DPG), Berlin, March 11-16, 2018. (P)
213. M. Schmid, M. Zugermeier, J. Herritsch, B.P. Klein, C. Krug, L. Ruppenthal, P. Müller, M. Bröring, **J.M. Gottfried**, *On-Surface Synthesis and Characterization of an Iron Corrole*, Annual Meeting of the German Physical Society (DPG), Berlin, March 11-16, 2018. (L)
214. M. Schmid, M. Zugermeier, J. Herritsch, B.P. Klein, C.K. Krug, L. Ruppenthal, P. Müller, M. Kothe, P. Schweyen, M. Bröring, **J.M. Gottfried**, *Comparing Interfacial Interactions in Tetrapyrrole Monolayers: Fe(II)porphyrin/Ag(111) vs. Fe(III)corrole/Ag(111)*, 34<sup>th</sup> European Conference on Surface Science (ECOSS-34), Aarhus, Denmark, 26-31 September 2018. (L)
215. J.-N. Luy, J. Herritsch, M. Zugermeier, F. Niefind, M. Schmid, **J.M. Gottfried**, R. Tonner, *Density functional studies of metal-organic interfaces: Corroles on Ag(111)*, 34<sup>th</sup> European Conference on Surface Science (ECOSS-34), Aarhus, Denmark, 26-31 September 2018. (P)
216. B.P. Klein, N. van der Heijden, M. Franke, S.R. Kachel, F. Posseik, M. Schmid, R. Tonner, I. Swart, C. Kumpf, **J.M. Gottfried**, *Metal/Organic Interfaces of Alternant and Non-Alternant Aromatic Molecules*, Joint Seminar SFB 1083 "Structure and Dynamics of Internal Interfaces" and GRK "Functionalization of Semiconductor Interfaces", Volkenroda, Germany, September 02-06, 2018. (L)
217. S.R. Kachel, C.K. Krug, M. Schmid, **J.M. Gottfried**, *HAXPES on Metal/Organic Interfaces*, Joint Seminar SFB 1083 "Structure and Dynamics of Internal Interfaces" and GRK "Functionalization of Semiconductor Interfaces", Volkenroda, Germany, September 02-06, 2018. (L)
218. J. Herritsch, M. Zugermeier, B.P. Klein, F. Niefind, L. Ruppenthal, M. Schmid, J.-N. Luy, R. Tonner, **J.M. Gottfried**, *Interface reactions of corroles*, Joint Seminar SFB 1083 "Structure and Dynamics of Internal Interfaces" and GRK "Functionalization of Semiconductor Interfaces", Volkenroda, Germany, September 02-06, 2018. (L)

219. M. Schöniger, M. Schmid, J.M. Gottfried, *Investigation of Metal/Organic Interfaces by Adsorption Calorimetry*, Joint Seminar SFB 1083 "Structure and Dynamics of Internal Interfaces" and GRK "Functionalization of Semiconductor Interfaces", Volkenroda, Germany, September 02-06, 2018. (P)
220. Q.T. Fan, K. Greulich, M. Zugermeier, J.N. Luy, R. Tonner, J. Sundermeyer, **J.M. Gottfried**, *Template-Controlled Synthesis of an Expanded Phthalocyanine and its Open-Chain Counterpart*, Workshop "On surface synthesis", Sant Feliu de Guixols, Spain, 23-28 September 2018. (L)
221. J. Herritsch, M. Zugermeier, M. Chen, Q.T. Fan, M. Schmid, **J.M. Gottfried**, *Surface Reactions of Corroles*, Autumn School on Surface Chemical Physics and Functional Interfaces, Schönau am Königsee, Germany, 08-11 October 2018. (P)
222. B.P. Klein, N. van der Heijden, M. Franke, S.R. Kachel, F. Posseik, M. Schmid, R. Tonner, I. Swart, C. Kumpf, **J.M. Gottfried**, *Molecular Topology and Surface Chemical Bond: Alternant vs. Non-Alternant Aromatic Molecules*, 9th Workshop on Advanced Spectroscopy of Organic Materials for Electronic Applications (ASOMEA-IX), October 23 – 26, 2018, Schluchsee, Germany. (P)
223. B.P. Klein, N. van der Heijden, M. Franke, S.R. Kachel, F. C. Bocquet, M. Schmid, R. Tonner, I. Swart, C. Kumpf, R.J. Maurer, **J.M. Gottfried**, *Molecular Topology and Metal-Organic Interactions*, 9th Workshop on Advanced Spectroscopy of Organic Materials for Electronic Applications (ASOMEA-IX), October 23 – 26, 2018, Schluchsee, Germany. (L)
224. P. Dombrowski, T. Breuer, S.R. Kachel, **J.M. Gottfried**, G. Witte, *Pentacene and Perfluoropentacene Bilayers – Well-Defined Interfaces vs. Molecular Intermixture*, Annual Meeting of the German Physical Society (DPG), Regensburg, March 31 - April 05, 2019. (L)
225. Q.T. Fan, D.M. Jimenez, S. Werner, D. Ebeling, A. Schirmeisen, J. Sundermeyer, W. Hieringer, **J.M. Gottfried**, *On-Surface Synthesis and Characterization of Cycloarene: a C108 Graphene Quantum Ring*, Annual Meeting of the German Physical Society (DPG), Regensburg, March 31 - April 05, 2019. (L)
226. J. Herritsch, J.N. Luy, M. Zugermeier, F. Niefind, Q.T. Fan, M. Schmid, P. Schweyen, M. Bröring, R. Tonner, **J.M. Gottfried**, *Influence of Porphyrinoid Ring Contraction: Transition Metal Corroles*, Annual Meeting of the German Physical Society (DPG), Regensburg, March 31 - April 05, 2019. (P)
227. J. Herritsch, J.N. Luy, M. Zugermeier, F. Niefind, B.P. Klein, M. Schmid, P. Schweyen, M. Bröring, R. Tonner, **J.M. Gottfried**, *Aromaticity of Contracted Porphyrins: Surface Reactivity of an Adsorbed Corrole*, Annual Meeting of the German Physical Society (DPG), Regensburg, March 31 - April 05, 2019. (L)
228. M. Hutter, M. Zugermeier, G.Q. Lyu, M. Schmid, S.R. Kachel, N. Lin, **J.M. Gottfried**, *Reactions of Tetrapyrroles with Lead on Metal Surfaces*, Annual Meeting of the German Physical Society (DPG), Regensburg, March 31 - April 05, 2019. (P)
229. S.R. Kachel, M. Schmid, B.P. Klein, N. Bock, **J.M. Gottfried**, *Reactive Metal-Organic Interfaces Studied with HAXPES: Modify Reaction Depth and Interphase Formation*, Annual Meeting of the German Physical Society (DPG), Regensburg, March 31 - April 05, 2019. (P)
230. S.R. Kachel, P. Dombrowski, T. Breuer, G. Witte, **J.M. Gottfried**, *Low-Dimensional Hybrid Interfaces Between Acenes and TMDCs: Pentacene and Perfluoropentacene on MoS<sub>2</sub>*, Annual Meeting of the German Physical Society (DPG), Regensburg, March 31 - April 05, 2019. (L)

231. B.P. Klein, R. Ruppenthal, M. Franke, S.R. Kachel, F.C. Bocquet, R. Tonner, C. Kumpf, R.J. Maurer, **J.M. Gottfried**, *Surface Chemical Bond of Alternant and Non-Alternant Aromatic Molecules: Influence of the Metal Surface*, Annual Meeting of the German Physical Society (DPG), Regensburg, March 31 - April 05, 2019. (L)
232. R. Ruppenthal, B.P. Klein, J. Herritsch, S.R. Kachel, **J.M. Gottfried**, *Surface Chemical Bond of Alternant vs. Non-Alternant Aromatic Isomers*, Annual Meeting of the German Physical Society (DPG), Regensburg, March 31 - April 05, 2019. (P)
233. M. Schöniger, S.R. Kachel, C.K. Krug, T. Koehler, M. Schmid, **J.M. Gottfried**, *Reaction of Calcium with Tetraphenylporphyrin Thin Films: Reaction Energies and Reaction Depths*, Annual Meeting of the German Physical Society (DPG), Regensburg, March 31 - April 05, 2019. (L)
234. **J.M. Gottfried**, Q.T. Fan, C.K. Krug, J.N. Luy, R. Tonner, D. Ebeling, A. Schirmeisen, W. Heringer, *Carbon-Based Functional Nanomaterials in 2D Confinement: On-Surface Synthesis, Aromaticity, and Molecular Topology*, 118<sup>th</sup> General Assembly of the German Bunsen Society for Physical Chemistry, Jena, May 30 – June 01, 2019. (L)
235. S.R. Kachel, B.P. Klein, M. Franke, C.K. Krug, L. Ruppenthal, F.C. Bocquet, W. Heringer, R.J. Maurer, R. Tonner, C. Kumpf, **J.M. Gottfried**, 118<sup>th</sup> General Assembly of the German Bunsen Society for Physical Chemistry, Jena, May 30 – June 01, 2019. (P)
236. P. Dombrowski, S.R. Kachel, L. Neuhaus, T. Breuer, **J.M. Gottfried**, G. Witte, *Experimental Quantification of Interaction Energies in Organic Monolayers*, Annual Meeting of the German Physical Society (DPG), Virtual Meeting, September 27 - October 01, 2021. (L)
237. J. Herritsch, S.R. Kachel, Q.T. Fan, M. Hutter, L.J. Heuplick, F. Münster, J. M. Gottfried, On-Surface porphyrin transmetalation with Pb/Cu redox exchange, International Conference on Internal Interfaces (ICII-2021), 10-14 Oct 2021, Schloss Rheinfels, Germany. (P)
238. J. Herritsch, Q. Fan, M.-I. Albus, L. Ruppenthal, L.J. Heuplick, L. Neuhaus, T. Wassermann, J.M. Gottfried, Oxidation-State Tuning and Supramolecular Mixed-Valence Phases: Nickel(II) Porphyrin and Nickel(II) Corroles on Different Metal Surfaces, 12th International Conference on Porphyrins and Phthalocyanines (ICPP-12), Madrid, Spain, 10-15 July 2022. (L)
239. F. Münster, J. Herritsch, S.R. Kachel, Q. Fan, M. Hutter, L.J. Heuplick, J.M. Gottfried, On-surface Porphyrin Transmetalation with Pb/Cu Redox Exchange, 12th International Conference on Porphyrins and Phthalocyanines (ICPP-12), Madrid, Spain, 10-15 July 2022. (P)
240. L. Neuhaus, S.R. Kachel, P. Schweyen, M. Hutter, M. Schöniger, F. Münster, L. Ruppenthal, J. Herritsch, M.-I. Albus, M. Bröring, and **J.M. Gottfried**, *Reaction of Tetrapyrrole Thin Films with Alkali Metals*, Annual Meeting of the German Physical Society (DPG), Regensburg, September 05 - 09, 2022. (P)
241. J. Martinez-Castro, R. Bolat, Q.T. Fan, S. Werner, H. Arefi, T. Esat, J. Sundermeyer, C. Wagner, **J.M. Gottfried**, Ruslan Temirov, Markus Ternes, and F. Stefan Tautz, *Disentangling the Complex Electronic Structure of an Adsorbed Nanographene: Cycloarene C108*, Annual Meeting of the German Physical Society (DPG), Regensburg, September 05 - 09, 2022. (L)
242. P.-M. Dombrowski, S.R. Kachel, L. Neuhaus, T. Breuer, **J.M. Gottfried**, and G. Witte, *Quantifying Interactions in Organic Monolayers*, Annual Meeting of the German Physical Society (DPG), Regensburg, September 05 - 09, 2022. (L)
243. J. Herritsch, Q.T. Fan, M.-I. Albus, L. Ruppenthal, L.J. Heuplick, L. Neuhaus, T. Wassermann, and **J.M. Gottfried**, *Nickel(II) Porphyrins on Metal Surfaces: Oxidation-*

- State Tuning and Formation of a Supramolecular Mixed-Valence Adsorbate Structure*, Annual Meeting of the German Physical Society (DPG), Regensburg, September 05 - 09, 2022. (L)
244. L. Ruppenthal, F. Münster, B.P. Klein, J. Herritsch, L. Neuhaus, S.R. Kachel, P.C. Liu, X.-Y. Chen, J.W. Cao, L.E. Sattler, S.M. Weber, Q.T. Fan, G. Hilt, X.Y. Wang, and **J.M. Gottfried**, *Surface Chemical Bond and Molecular Topology of Polycyclic Aromatic Systems*, Annual Meeting of the German Physical Society (DPG), Regensburg, September 05 - 09, 2022. (L)
245. Z.L. Ruan, B.J. Li, S.J. Sun, Y. Zhang, L. Gao, J.C. Lu, **J.M. Gottfried**, and J.M. Cai, *Real-space Imaging of Unprecedented Phenyl Group Migration Reaction on Metal Surfaces*, Annual Meeting of the German Physical Society (DPG), Regensburg, September 05 - 09, 2022. (L)
246. L.J. Heuplick, Q.T. Fan, D.A. Astvatsaturov, D. Körmer, T.V. Dubinina, and **J.M. Gottfried**, *On-surface Synthesis of Naphthalocyanines with Extended  $\pi$ -Systems*, Annual Meeting of the German Physical Society (DPG), Regensburg, September 05 - 09, 2022. (P)
247. B.P. Klein, A. Ihle, S.R. Kachel, L. Ruppenthal, S.J. Hall, D. Ebeling, R. Tonner-Zech, R.J. Maurer, A. Schirmeisen, and **J.M. Gottfried**, *Stone-Wales defect: molecular model system reveals increased interaction with Cu(111) surface*, Annual Meeting of the German Physical Society (DPG), Regensburg, September 05 - 09, 2022. (L)
248. T. Naumann, Q.T. Fan, L. Heuplick, L. Ruppenthal, S. Werner, T. Vollgraff, J. Sundermeier, and **J.M. Gottfried**, *On-Surface Synthesis of Kekulene and Isokekulene*, Annual Meeting of the German Physical Society (DPG), Regensburg, September 05 - 09, 2022. (P)
249. F. Münster, L. Ruppenthal, L. Neuhaus, J. Herritsch, J.H. Both, P.C. Liu, X.-Y. Chen, J.W. Cao, X.-Y. Wang, and **J.M. Gottfried**, *Surface Chemical Bond of Alternant vs. Non-Alternant Aromatic Isomers*, Annual Meeting of the German Physical Society (DPG), Regensburg, September 05 - 09, 2022. (P)
250. J. Herritsch, S.R. Kachel, Q.T. Fan, M. Hutter, L.J. Heuplick, F. Münster, and **J.M. Gottfried**, *On-Surface Transmetalation of a Lead-Porphyrin on the Cu(111) surface*, Annual Meeting of the German Physical Society (DPG), Regensburg, September 05 - 09, 2022. (P)
251. T. Naumann, Q.T. Fan, L. Heuplick, L. Ruppenthal, S. Werner, T. Vollgraff, J. Sundermeier, and **J.M. Gottfried**, *On-Surface Synthesis of Kekulene and Isokekulene*, Summer School "Synthetic 2D Materials", Dresden, 19-23 September 2022. (P)
252. Z.L. Ruan, B.J. Li, S.J. Sun, Y. Zhang, L. Gao, J.C. Lu, **J.M. Gottfried**, and J.M. Cai, *Real-space Imaging of Unprecedented Phenyl Group Migration Reaction on Metal Surfaces*, On-Surface Synthesis International Workshop (OSS-22), Sant Feliu de Guixols, Spain, 25-30 September 2022. (L)
253. T. Naumann, Q.T. Fan, L. Heuplick, L. Ruppenthal, S. Werner, T. Vollgraff, J. Sundermeier, and **J.M. Gottfried**, *On-Surface Synthesis of Kekulene and Isokekulene*, On-Surface Synthesis International Workshop (OSS-22), Sant Feliu de Guixols, Spain, 25-30 September 2022. (P)
254. L.J. Heuplick, Q.T. Fan, D.A. Astvatsaturov, D. Körmer, T.V. Dubinina, and **J.M. Gottfried**, *On-surface Synthesis of Naphthalocyanines with Extended  $\pi$ -Systems*, On-Surface Synthesis International Workshop (OSS-22), Sant Feliu de Guixols, Spain, 25-30 September 2022. (P)
255. K.F. Niu, Q.T. Fan, L.F. Chi, J. Rosen, **J.M. Gottfried**, J. Björk, *Unveiling the Formation Mechanism of the Biphenylene Network*, 747. WE-Heraeus-Seminar: Molecular

- Functionality at Surfaces: Self-Assembly, Manipulation, Reactivity and the Role of Decoupling, Physikzentrum Bad Honnef, 30 Oct - 04 Nov 2022. (P)
256. Z. Ruan, T. Naumann, J. B. Bauer, L. Heuplick, H. F. Bettinger, and J. M. Gottfried, *SPM Tip-induced Cleavage of Bridging Groups to Generate Carbon Nanomaterials*, Annual Meeting of the German Physical Society (DPG), Dresden, 26.03. - 31.03.2023. (L)
257. J. Herritsch, J.-N. Luy, R. Tonner-Zech, and J. M. Gottfried, *Nickel(II) Porphyrins versus Nickel(II) Corroles on Different Metal Surfaces: Oxidation-State Tuning of Nickel Tetrapyrrole Complexes*, Annual Meeting of the German Physical Society (DPG), Dresden, 26.03. - 31.03.2023. (L)
258. C. Guo, G. Pasko, J. Herritsch, J. M. Gottfried, *Ligand Size Controls Surface Chemical Bond: Cobalt Porphyrin versus Cobalt Corrole on the Ag(111)*, Annual Meeting of the German Physical Society (DPG), Dresden, 26.03. - 31.03.2023. (P)
259. L. Neuhaus, F. Münster, K. Zoltner, M. I. Albus, J. Herritsch, and J. M. Gottfried, *On-Surface Reaction of Tetraphenylporphyrin with Caesium*, Annual Meeting of the German Physical Society (DPG), Dresden, 26.03. - 31.03.2023. (P)
260. T. Naumann, Z. Ruan, J. B. Bauer, L. J. Heuplick, H. F. Bettinger, **J. M. Gottfried**, *Preparation and Characterization of Model Carbon Nanomaterials by Manipulation with a Low-Temperature Scanning Probe Microscope*, Bunsen-Tagung 2023 - Physical Chemistry of the Energy Transition, Berlin, 5-7 June 2023. (P)
261. J. Herritsch, Q. Fan, **J. M. Gottfried**, *Nickel Tetrapyrroles at Metal/Organic Interfaces*, Bunsen-Tagung 2023 - Physical Chemistry of the Energy Transition, Berlin, 5-7 June 2023. (P)
262. L. Neuhaus, S. R. Kachel, F. Münster, K. Zoltner, M. Schöniger, M. I. Albus, J. Herritsch, **J. M. Gottfried**, *Reactions of Tetraphenylporphyrins with Lithium and Caesium at Metal/Organic Interphases*, Bunsen-Tagung 2023 - Physical Chemistry of the Energy Transition, Berlin, 5-7 June 2023. (P)
263. J.M. Gottfried, Z. Ruan, T. Naumann, *Scanning Probe Microscopy for Atomic-Scale Imaging, Spectroscopy, and Manipulation: New Frontiers in Materials Analysis, Design, and Prototyping*, Bunsen-Tagung 2024 - High-Resolution Structural Methods in Material and Life Sciences, Aachen, 25-27 March. (V)
264. L.J. Heuplick, Q. Fan, A. Ihle, P. Liu, J. Cao, J. Herritsch, D. Ebling, X.-Y. Wang, A. Schirmeisen, J.M. Gottfried, *On-Surface Synthesis of Non-Alternant Nanographenes*, Bunsen-Tagung 2024 - High-Resolution Structural Methods in Material and Life Sciences, Aachen, 25-27 March. (P)
265. T. Naumann, Z. Ruan, O. Kleykamp, A. Kaczmarek, E. Sharikow, J. Sundermeyer, D. Mollenhauer, J.M. Gottfried, *On-surface Synthesis of Nitrogen-Doped Carbon Nanostructures*, Bunsen-Tagung 2024 - High-Resolution Structural Methods in Material and Life Sciences, Aachen, 25-27 March. (P)
266. F. Münster, L.J. Heuplick, G. Pasko, J. Herritsch, J.M. Gottfried, *Electrospray Ionization Ion Beam Deposition of Organic Molecules*, Bunsen-Tagung 2024 - High-Resolution Structural Methods in Material and Life Sciences, Aachen, 25-27 March. (P)
267. Robin Günkel, Stefan Renato Kachel, Leonard Neuhaus, Lukas Erlemeier, Tigmanshu Sundrial, Johannes Glowatzki, Jürgen Belz, Carsten von Hänisch, J. Michael Gottfried and Kerstin Volz, *GaS - a Two-Dimensional UV emitting material: Challenges of MOCVD Synthesis*, 87th Annual Conference of the DPG and DPG Spring Meeting of the Condensed Matter Section (SKM), Berlin, 17-22 March 2024 (18.03.2024). (V)
268. Stefan Renato Kachel, Robin Günkel, Leonard Neuhaus, Johannes Glowatzki, Lukas Erlemeier, Kassandra Zoltner, Florian Münster, Carsten von Hänisch, Kerstin Volz, and

- J. Michael Gottfried, *2D Layer MOCVD Growth of GaS on Sapphire: Insights on the Mechanism using TPD, AES and XPS*, 87th Annual Conference of the DPG and DPG Spring Meeting of the Condensed Matter Section (SKM), Berlin, 17-22 March 2024 (21.03.2024). (P)
269. Zilin Ruan, Tim Naumann, Jakob Schramm, John B. Bauer, Holger F. Bettinger, Ralf Tonner-Zech, and J. Michael Gottfried, *On-Surface Synthesis and Characterization of Pentadecacene*, 87th Annual Conference of the DPG and DPG Spring Meeting of the Condensed Matter Section (SKM), Berlin, 17-22 March 2024 (19.03.2024). (V)
270. Sabine Wenzel, Qitang Fan, Anja Haags, Alexander Reichmann, Larissa Egger, Hans Kirschner, Tim Naumann, Simon Werner, Tobias Vollgraff, Jörg Sundermeyer, Jose Martinez, Felix Lüpke, Xiaosheng Yang, Dominik Brandstetter, François C. Bocquet, Christian Kumpf, Georg Koller, Alexander Gottwald, Mathias Richter, Michael Ramsey, Peter Puschnig, Serguei Soubatch, F. Stefan Tautz, and J. Michael Gottfried, *High-Yield On-Surface Synthesis of Isokekulene Facilitated by Strong Molecule-Substrate Interaction*, 87th Annual Conference of the DPG and DPG Spring Meeting of the Condensed Matter Section (SKM), Berlin, 17-22 March 2024 (19.03.2024). (V)
271. Tim Naumann, Zilin Ruan, Olaf Kleykamp, Alix Kaczmarek, Eugen Sharikow, Jörg Sundermeyer, Doreen Mollenhauer, and J. Michael Gottfried, *On-surface Synthesis of Nitrogen-Doped Carbon Nanostructures*, 87th Annual Conference of the DPG and DPG Spring Meeting of the Condensed Matter Section (SKM), Berlin, 17-22 March 2024 (19.03.2024). (V)
272. Lukas Heuplick, Qitang Fan, Alexander Ihle, Pengcai Liu, Miguel Wiche, Xing-Yu Chen, Jiawen Cao, Jan Herritsch, Daniel Ebeling, Xiao-Ye Wang, André Schirmeisen, and J. Michael Gottfried, *On-Surface Synthesis of Nanostructures With Non-Alternant Topology*, 87th Annual Conference of the DPG and DPG Spring Meeting of the Condensed Matter Section (SKM), Berlin, 17-22 March 2024 (19.03.2024). (V)
273. Kassandra Zoltner, Leonard Neuhaus, Florian Münster, Lukas Heuplick, Jan Herritsch, and J. Michael Gottfried, *On-surface synthesis of a Dicaesium Tetraphenylporphyrin Complex: A combined TPR, XPS, STM and DFT study*, 87th Annual Conference of the DPG and DPG Spring Meeting of the Condensed Matter Section (SKM), Berlin, 17-22 March 2024 (19.03.2024). (P)
274. Grigori Pasko, Zilin Ruan, Tim Naumann, Jakob Schramm, John Bauer, Holger F. Bettinger, Ralf Tonner-Zech, and J. Michael Gottfried, *Synthesis and Characterization of Pentadecacene by Tip-manipulation with a Scanning Probe Microscope*, 87th Annual Conference of the DPG and DPG Spring Meeting of the Condensed Matter Section (SKM), Berlin, 17-22 March 2024 (20.03.2024). (P)
275. Florian Münster, Lukas Heuplick, Grigori Pasko, Jan Herritsch, and J. Michael Gottfried, *Electrospray Ionization Ion Beam Deposition of Organic Molecules*, 87th Annual Conference of the DPG and DPG Spring Meeting of the Condensed Matter Section (SKM), Berlin, 17-22 March 2024 (20.03.2024). (P)
276. Dong Han, Konstantin Y. Amsharov, and J. Michael Gottfried, *On-Surface Synthesis of Carbon Nanoribbons with Nonalternant Topologies*, 87th Annual Conference of the DPG and DPG Spring Meeting of the Condensed Matter Section (SKM), Berlin, 17-22 March 2024 (20.03.2024). (P)
277. Lukas Ruppenthal, Florian Münster, Neuhaus Leonard, Tim Naumann, Jon H. Both, Jan Herritsch, Zilin Ruan, Pengcai Liu, Xing-Yu Chen, Jiawen Cao, Jakob Schramm, Ralf Tonner-Zech, Xiao-Ye Wang, and J. Michael Gottfried, *Surface Chemical Bond and Molecular Topology of Polycyclic Aromatic Systems: Pyrene vs. Acepleiadylene*, 87th Annual Conference of the DPG and DPG Spring Meeting of the Condensed Matter Section (SKM), Berlin, 17-22 March 2024 (20.03.2024). (P)

278. Cong Guo, Jan Herritsch, Lukas J. Heuplick, Stefan R. Kachel, Mark Hutter, and J. Michael Gottfried, *On-surface degradation reactions of Pb(II)-tetraphenylporphyrin*, 87th Annual Conference of the DPG and DPG Spring Meeting of the Condensed Matter Section (SKM), Berlin, 17-22 March 2024 (20.03.2024). (P)
279. Leonard Neuhaus, Florian Münster, Cassandra Zoltner, Lukas Heuplick, Jan Herritsch, and J. Michael Gottfried, *On-Surface Reaction of Tetraphenylporphyrin with Caesium*, 87th Annual Conference of the DPG and DPG Spring Meeting of the Condensed Matter Section (SKM), Berlin, 17-22 March 2024 (20.03.2024). (P)
280. Zilin Ruan, Tim Naumann, Olaf Kleykamp, Eugen Sharikow, Alix Kaczmarek, Doreen Mollenhauer, Jörg Sundermeyer, J. Michael Gottfried, *On-Surface Synthesis and Characterization of Aza-Nanographenes and Their Metal Complexes*, Challenges in Chemical Sensing with Graphene Derivatives and 2D Materials (SENSE), San Sebastian, Spain, 09 - 11 September 2024 (10.09.2024). (P)
281. Zilin Ruan, Tim Naumann, Jakob Schramm, John B. Bauer, Holger F. Bettinger, Ralf Tonner-Zech, J. Michael Gottfried, *On-Surface Synthesis and Characterization of Long Acenes*, On-Surface Synthesis International Workshop (OSS224), Sant Feliu de Guíxols, Girona, 2 – 7 June 2024 (07.06.2024). (V)
282. Tim Naumann, Zilin Ruan, Olaf Kleykamp, Eugen Sharikow, Jörg Sundermeyer, J. Michael Gottfried, *On-surface Synthesis of Nitrogen-Doped Cycloarenes*, On-Surface Synthesis International Workshop (OSS224), Sant Feliu de Guíxols, Girona, 2 – 7 June 2024 (05.06.2024). (P)
283. Dong Han, Zilin Ruan, Tim Naumann, Konstantin Y. Amsharov, J. Michael Gottfried, *On-Surface Synthesis and Characterization of Planar Cycloparaphenylenes*, On-Surface Synthesis International Workshop (OSS224), Sant Feliu de Guíxols, Girona, 2 – 7 June 2024 (05.06.2024). (P)
284. Zilin Ruan, Tim Naumann, Olaf Kleykamp, Alix Kaczmarek, Eugen Sharikow, Doreen Mollenhauer, Jörg Sundermeyer, J. Michael Gottfried, *On-Surface Synthesis of Nitrogen-doped Cycloarenes and Their Metal Complexes*, NC-AFM 2024 Conference, The 25th International Conference on Non-Contact Atomic Force Microscopy, Montréal (Canada), August 5th-9th, 2024 (7.8.2024). (V)
285. Zilin Ruan, Tim Naumann, Olaf Kleykamp, Alix Kaczmarek, Eugen Sharikow, Doreen Mollenhauer, Jörg Sundermeyer, J. Michael Gottfried, *On-Surface Synthesis of Nitrogen-doped Cycloarenes and Their Metal Complexes*, NC-AFM 2024 Conference, The 25th International Conference on Non-Contact Atomic Force Microscopy, Montréal (Canada), August 5th-9th, 2024 (7.8.2024). (V)
286. Q. T. Fan, L. H. Yan, D. Martin-Jimenez, D. Ebeling, M. W. Tripp, S. R. Kachel, O. Krejčí, S. Dimosthenous, A. S. Foster, L. Brechmann, C. Kohlmeyer, G. Hilt, U. Koert, A. Schirmeisen, P. Liljeroth, J. M. Gottfried, *Nonbenzenoid Carbon Allotropes*, 20th International Symposium on Novel Aromatic Compounds Toronto, Canada, August 11-16, 2024 (13.8.2024). (P)
287. Florian Münster, Lukas Heuplick, Grigori Pasko, Jan Herritsch, J. Michael Gottfried, *Vacuum Deposition of Porphyrins via Electrospray Ionization Ion Beam Technique*, International Conference on Porphyrins and Phthalocyanines (ICPP-13), Buffalo, USA, June 23-28, 2024 (24.06.2024). (P)
288. Leonard Neuhaus, Florian Münster, Cassandra Zoltner, Stefan R. Kachel, Jan Herritsch, Lukas Heuplick, Martin Bröring, J. Michael Gottfried, *Solvent-Free Synthesis of Alkali Metal Porphyrins and Corroles*, International Conference on Porphyrins and Phthalocyanines (ICPP-13), Buffalo, USA, June 23-28, 2024 (24.06.2024). (P)

289. Zilin Ruan, Tim Naumann, Jakob Schramm, John B. Bauer, Holger F. Bettinger, Ralf Tonner-Zech, J. Michael Gottfried, *On-Surface Synthesis and Characterization of Long Acenes*, Graphene2024 - 14th Graphene Conference, Madrid, June 25-28, 2024 (27.06.2024). (V)
290. Cong Guo, Jan Herritsch, Anastasiya Beliakouskaya, J. Michael Gottfried, *Metallocorroles: On-Surface Synthesis, Adsorption Geometry, and Electronic Structure*, 88th Annual Conference of the DPG and DPG Spring Meeting of the Condensed Matter Section (SKM), Regensburg, 16-21 March 2025 (17.03.2025). (P)
291. Stefan R. Kachel, Robin Günkel, Leonard Neuhaus, Oliver Maßmeyer, Lukas Erlemeier, Cassandra Zoltner, Florian Münster, Carsten von Hänisch, Kerstin Volz, and J. Michael Gottfried, *Elucidating the Growth Mechanism of 2D GaS on Sapphire in a Multitechnique Approach*, 88th Annual Conference of the DPG and DPG Spring Meeting of the Condensed Matter Section (SKM), Regensburg, 16-21 March 2025 (17.03.2025). (V)
292. Miguel Wiche, Qigang Zhong, Daniel Kohrs, Qitang Fan, J. Michael Gottfried, Daniel Ebeling, Hermann A. Wegner, and André Schirmeisen, *Temperature Induced Ring-Opening Polymerization Reaction for the Synthesis of Carbon Nanoribbons: Strain Influence on the On-surface Synthesis Using [6], [8]-, and [10]Cycloparaphenylenes*, 88th Annual Conference of the DPG and DPG Spring Meeting of the Condensed Matter Section (SKM), Regensburg, 16-21 March 2025 (18.03.2025). (V)
293. Qitang Fan, Alexander Reichmann, Zilin Ruan, Faming Kang, Tim Naumann, Simon Werner, Olaf Kleykamp, Jose Martinez, Felix Lüpke, François C. Bocquet, Christian Kumpf, Serguei Soubatch, Jörg Sundermeyer, Peter Puschnig, F. Stefan Tautz, J. Michael Gottfried, Sabine Wenzel, *Selective On-Surface Synthesis of Isokekulene Facilitated by Strong Molecule-Substrate Interaction*, 88th Annual Conference of the DPG and DPG Spring Meeting of the Condensed Matter Section (SKM), Regensburg, 16-21 March 2025 (19.03.2025). (V)
294. Zilin Ruan, Liping Ye, Jakob Schramm, Tim Naumann, Faming Kang, Ralf Tonner-Zech, Michael Mastalerz, J. Michael Gottfried, *On-surface synthesis and characterization of long azaacenes*, 88th Annual Conference of the DPG and DPG Spring Meeting of the Condensed Matter Section (SKM), Regensburg, 16-21 March 2025 (19.03.2025). (V)
295. Ye Liu, Yingling Zhang, Zilin Ruan, Tim Naumann, Faming Kang, Ulrich Koert, and J. Michael Gottfried, *On-Surface Synthesis and Reactivity of Biphenylene Network on Au(788)*, 88th Annual Conference of the DPG and DPG Spring Meeting of the Condensed Matter Section (SKM), Regensburg, 16-21 March 2025 (19.03.2025). (V)
296. Dong Han, Jakob Schramm, Zilin Ruan, Tim Naumann, Konstantin Y. Amsharov, Ralf Tonner-Zech, J. Michael Gottfried, *Incorporating Nonhexagonal Polygons into Carbon-Based Nanostructures via On-Surface Synthesis*, 88th Annual Conference of the DPG and DPG Spring Meeting of the Condensed Matter Section (SKM), Regensburg, 16-21 March 2025 (19.03.2025). (V)
297. Tim Naumann, Zilin Ruan, Olaf Kleykamp, Alix Kaczmarek, Linus Pohl, Andreas Achazi, Eugen Sharikow, Doreen Mollenhauer, Jörg Sundermeyer, and J. Michael Gottfried, *On-surface Synthesis of Aza-Coronoids*, 88th Annual Conference of the DPG and DPG Spring Meeting of the Condensed Matter Section (SKM), Regensburg, 16-21 March 2025 (19.03.2025). (V)
298. Grigori Pasko, Florian Münster, Lukas Heuplick, Jan Herritsch, J. Michael Gottfried, *Electrospray Ion-Beam Deposition of Organic Molecules*, MS+M 2025, Utrecht, October 1-3, 2025. (P)

## H. Supervision of PhD, Master, Diploma and Bachelor Theses

### PhD Theses

1. Ken-Dominic Flechtner  
*Photoelektronenspektroskopische Untersuchungen zur Adsorption und Reaktivität von Co(II)-, Zn(II)- und Fe(II)-Porphyrinen auf Ag(111)*  
Dissertation, Universität Erlangen-Nürnberg 2007 (co-supervised with Prof. Dr. H.-P. Steinrück).
2. Fabian Bebensee  
*Metal-Polymer Interfaces Studied with Adsorption Microcalorimetry and Photoelectron Spectroscopy*  
Dissertation, Universität Erlangen-Nürnberg 2010 (co-supervised with Prof. Dr. H.-P. Steinrück).
3. Yun Bai  
*Photoelectron Spectroscopic Investigations of Porphyrins and Phthalocyanines on Ag(111) and Au(111): Adsorption and Reactivity*  
Dissertation, Universität Erlangen-Nürnberg 2010 (co-supervised with Prof. Dr. H.-P. Steinrück).
4. Martin Schmid  
*Characterization of Interfaces Between Metals and Organic Thin Films by Electron and Ion Spectroscopies*  
Dissertation, Universität Erlangen-Nürnberg 2012 (co-supervised with Prof. Dr. H.-P. Steinrück).
5. Min Chen  
*Surface-Assisted Chemistry at Interfaces between Metals and Organic Thin Films*  
Dissertation, Universität Marburg 2016.
6. Hans-Jörg Drescher  
*Nanojoule Calorimetry. Design, Construction, Novel Evaluation Approach, Software Development, Characterization, and Exemplary Measurements*  
Dissertation, Universität Marburg 2016.
7. Han Zhou  
*Reactive Metal-Organic Interfaces Studied with Adsorption Calorimetry and Photoelectron Spectroscopy*  
Dissertation, Universität Marburg 2018.
8. Malte Zugermeier  
*Reactive Aromatic Molecules on Metal Surfaces: Syntheses, Reactions and Structures*  
Dissertation, Universität Marburg 2018.
9. Benedikt Klein  
*The Surface Chemical Bond of Non-alternant Aromatic Molecules on Metal Surfaces*  
Dissertation, Universität Marburg 2019.
10. Claudio Krug  
*Structure and Reactivity of Aromatic Molecules on Metal Single-Crystal Surfaces and at Metal/Organic Interfaces*  
Dissertation, Universität Marburg, 08/2020
11. Stefan Renato Kachel,  
*Investigations of Metal/Organic Interfaces and Metalation Reactions of Organic Semiconductors*  
Dissertation, Universität Marburg, 11/2020
12. Jan Herritsch  
*Strategien zur Entwicklung funktionalisierter Oberflächen auf Basis von*

*Tetrapyrrolkomplexen*

Dissertation, Universität Marburg 2022. (11.11.2022)

13. Maik Schöniger, Dissertation, Universität Marburg, in preparation.
14. Lukas Ruppenthal, Dissertation, Universität Marburg, in preparation.
15. Lukas Heuplick, Dissertation, Universität Marburg, in preparation.
16. Leonard Neuhaus, Dissertation, Universität Marburg, in preparation.
17. Florian Münster, Dissertation, Universität Marburg, in preparation.
18. Tim Naumann, Dissertation, Universität Marburg, in preparation.
19. Sonja Bohl, Dissertation, Universität Marburg, in preparation.
21. Cassandra Zoltner, Dissertation, Universität Marburg, in preparation.
22. Grigori Pasko, Dissertation, Universität Marburg, in preparation.

**Diploma / Master Theses**

1. Thomas Lukasczyk  
*Adsorption und Reaktion von Metalloporphyrinen auf einer Ag(111)-Oberfläche*  
Diplomarbeit, Universität Erlangen-Nürnberg 2005 (co-supervised with Prof. Dr. H.-P. Steinrück).
2. Andreas Kretschmann  
*Metallierung von Porphyrinen und Adsorption von kleinen Molekülen an Metalloporphyrinschichten auf einer Ag(111)-Oberfläche im Ultrahochvakuum*  
Diplomarbeit, Universität Erlangen-Nürnberg 2006 (co-supervised with Prof. Dr. H.-P. Steinrück).
3. Hans-Jörg Drescher  
*Aufbau und Charakterisierung eines Detektors für die Adsorptionsmikrokalorimetrie*  
Diplomarbeit, Universität Erlangen-Nürnberg 2008 (co-supervised with Prof. Dr. H.-P. Steinrück).
4. Andy Weidinger  
*Temperaturprogrammierte Desorption (TPD) im Ultrahochvakuum: Konzeption und Realisierungsaufbau eines Praktikumsversuchs*  
Zulassungsarbeit zum Staatsexamen für Lehramtskandidaten, Universität Erlangen 2008 (co-supervised with Prof. Dr. H.-P. Steinrück).
5. Martina Hank  
*Untersuchung von Goldkatalysatoren mittels Hochdruck-Röntgenphotoelektronenspektroskopie*  
Diplomarbeit, Universität Erlangen-Nürnberg 2009 (co-supervised with Prof. Dr. H.-P. Steinrück).
6. Lorenz Ringel  
*In-situ XPS Untersuchungen zur Adsorption von Kohlenmonoxid auf Au(111), TiO<sub>2</sub>(110) und planaren goldhaltigen Modellkatalysatoren*  
Diplomarbeit, Universität Erlangen-Nürnberg 2010 (co-supervised with Prof. Dr. H.-P. Steinrück).
7. Malte Zugermeier  
*Wachstum organischer Molekülkristalle in dünnen Flüssigkeitsfilmen*  
Masterarbeit, Universität Marburg, 2013
8. Claudio Krug  
*Untersuchungen adsorbierter aromatischer Dicarbonitrile auf der Ag(111)-Oberfläche mittels Rastertunnelmikroskopie*  
Masterarbeit, Universität Marburg, 2015.

9. Falk Niefind  
*Surface reactions of corroles studied with photoelectron spectroscopy*  
Masterarbeit, Universität Marburg, 2015.
10. Nicole Orthwein  
*Kinetische Messungen zur HCl-Oxidation an neuartigen Deacon-Katalysatoren*  
Diplomarbeit, Universität Marburg, 2015. (with Prof. H. Over, Gießen)
11. Malte Sachs  
*Curie-Magnetismus durch Leitungselektronenlokalisierung: Substitution von Ta durch Cu in 1T-TaS<sub>2</sub>*  
Masterarbeit, Universität Marburg 2016.
12. Maik Schöniger  
*Investigations of Naphthalene and Azulene on Ag(111) and Cu(111) with Temperature-Programmed Desorption*  
Masterarbeit, Universität Marburg 2016.
13. Nikolaus Wollscheid  
*Konstruktion und Inbetriebnahme einer Probenpräparationskammer für Oberflächenexperimente im UHV*  
Masterarbeit, Universität Marburg 2016.
14. Benedikt Klein  
*Untersuchungen zur Adsorption von Azulen und Naphthalin auf Cu(111) und Ag(111)*  
Masterarbeit, Universität Marburg 2016.
15. Stefan Renato Kachel  
*Temperature-Programmed Desorption of Azulene and Naphthalene on Cu(111)*  
Masterarbeit, Universität Marburg 2017.
16. Nicolas Bock  
*Konstruktion und Aufbau einer Apparatur zur Ionenstrahl-Deposition von Molekülen*  
Masterarbeit, Universität Marburg 2017.
17. Simon Werner  
*Synthesis of brominated terphenyls and investigation of their reactivity on different metal surfaces*  
Masterarbeit, Universität Marburg 2017.
18. Katharina Greulich  
*Template-Assisted On-Surface Synthesis of Oligopyrroles*  
Masterarbeit, Universität Marburg 2018.
19. Jan Herritsch  
*Metallierungsreaktionen zyklischer Tetrapyrrole auf der Ag(111)- und der Cu(111)-Oberfläche*  
Masterarbeit, Universität Marburg 2018.
20. Nicole Wutke  
*Synthese und Schwefel-Funktionalisierung grenzflächenaktiver Monomere und Polymere*  
Masterarbeit, Universität Marburg 2018.
21. Lukas Ruppenthal  
*Untersuchung der Bindung von Azulen und Naphthalin an einer Pt(111)-Metalloberfläche*  
Master Thesis, Universität Marburg 2019.
22. Tabea Köhler  
*On-Surface Synthesis of Carbon-Based Nanostructures*  
Master Thesis, Universität Marburg 2019.

23. Mark Hutter  
*Reactions of Tetraphenylporphyrin with Lithium and Lead on Coinage Metal Surfaces*  
Master Thesis, Universität Marburg 2019.
24. Lukas Heuplick  
*Untersuchung der Reaktivität von PbTPP auf der Cu(111)- und Au(111)-Oberfläche*  
Master Thesis, Universität Marburg 06/2020
25. Mengyi Chen  
*Hierarchical on-surface synthesis of carbon-based nanostructures with halogen substituted molecules*  
Master Thesis, Universität Marburg 07/2020
26. Leonard Neuhaus  
*Metallierung von 3H-HEDMC auf der Au(111)-Oberfläche mit Hauptgruppenmetallen*  
Master Thesis, Universität Marburg, 11/2020
27. Florian Münster  
*Adsorption von Acepleiadylen und Pyren auf Metalloberflächen*  
Master Thesis, Universität Marburg, 09/2021
28. Tim Naumann  
*Vergleich der Reaktivität von 2,7-Dibrom-1,6-methano[10]annulen auf Cu(111), Ag(110) und Ag(111)*  
Master Thesis, Universität Marburg, 05/2022
29. Grigori Pasko  
*Optimierung einer Apparatur zur Elektrospray-Ionenstrahl-Deposition und Deposition von Tetraphenylporphyrin auf Au(111)*  
Master Thesis, Universität Marburg, 04/2025
30. Cassandra Zoltner  
*Thermische Desorptionsstudien von aromatischen und gesättigten bicyclischen Kohlenwasserstoffen auf Au(111)*  
Master Thesis, Universität Marburg, 04/2025

### **Bachelor Theses**

1. Marie-Madeleine Walz  
*Direkte Synthese von Zn-Tetraphenylporphyrin auf einem Ag(111)-Kristall*  
Bachelorarbeit, Universität Erlangen-Nürnberg 2006 (co-supervised with Prof. Dr. H.-P. Steinrück).
2. Elisabeth Zillner  
*Photoelektronenspektroskopische Untersuchungen zur Adsorption und Reaktivität von Fe(II)-Porphyrinen auf Ag(111)*  
Bachelorarbeit, Universität Erlangen-Nürnberg 2007 (co-supervised with Prof. Dr. H.-P. Steinrück).
3. Michael Sekita  
*Photoelektronenspektroskopische Untersuchungen von Co(II)-Porphyrinen auf Au(111)*  
Bachelorarbeit, Universität Erlangen-Nürnberg, 2009 (co-supervised with Prof. Dr. H.-P. Steinrück).
4. Bernhard Arnold  
*Untersuchung von goldhaltigen Modell- und Realkatalysatoren mittels Photoelektronenspektroskopie*  
Bachelorarbeit, Universität Erlangen-Nürnberg 2009 (co-supervised with Prof. Dr. H.-P. Steinrück).

5. Johannes Zirzmeier  
*Photoelektronenspektroskopische Untersuchungen zur Adsorption von Eisen(II)-Phthalocyanin auf einer Gold(111)-Oberfläche*  
Bachelorarbeit, Universität Erlangen-Nürnberg 2010 (co-supervised with Prof. Dr. H.-P. Steinrück).
6. Andre Kaftan  
*Adsorption von Cobalt-Phthalocyanin auf Ag(111): Untersuchungen mittels Photoelektronenspektroskopie und niederenergetischer Ionenstreuungsspektroskopie*  
Bachelorarbeit, Universität Erlangen-Nürnberg 2011.
7. Alexandra Roth  
*Interfacial interactions of metallophthalocyanines on Au(111)*  
Bachelorarbeit, Universität Erlangen-Nürnberg 2011.
8. Maximilian Wolf  
*In-situ XPS evidence for an active oxygen species in CO oxidation on Au/TiO<sub>2</sub>(110) model catalysts.*  
Bachelorarbeit, Universität Erlangen-Nürnberg 2012.
9. Benedikt Klein  
*Charakterisierung eines Magnesiumatomstrahls*  
Bachelorarbeit, Universität Marburg 2012.
10. Dominik Recktenwald  
*Kristallwachstum organischer Verbindungen in dünnen Flüssigkeitsfilmen*  
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11. Stefan Renato Kachel  
*Photoelektronenspektroskopische Untersuchungen an der verborgenen Grenzfläche zwischen Calcium und  $\alpha$ -Sexithiophen mittels Synchrotronstrahlung*  
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12. Denis Gruber  
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13. Janek Bernzen  
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14. Johanna Schepp  
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15. Mark Hutter  
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14. Philipp Müller  
*Bestimmung der Schichtdicke adsorbierter organischer Moleküle auf Cu(111) und Ag(111)-Oberflächen*  
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15. Lukas Ruppenthal  
*Reaktion eines Corrols mit Nickel auf Ag(111)*  
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16. Lukas Joshua Heuplick  
*Oberflächenuntersuchung von 3H-HEDMC und Ni-HEDMC mithilfe der Rastertunnelmikroskopie*  
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16. Florian Fillsack  
*Untersuchung der Adsorption von Azulen und eines dibromierten Derivats mittels Photoelektronenspektroskopie und Rastertunnelmikroskopie*  
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17. Tim Naumann  
*Oberflächengestützte Synthese von Kekulen*  
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18. Marie Albus  
*Untersuchung zur elektronischen Struktur des Zentralatoms in Nickel(II)octaethylporphyrin auf den Münzmetall(111)-Oberflächen*  
Bachelorarbeit, Universität Marburg 2019.
19. Ruben Nußhär  
*Reaktionen von dünnen Corrol- und Porphyrinschichten mit Magnesium im Ultrahochvakuum: Untersuchungen mittels Photoelektronenspektroskopie*  
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20. Grigori Pasko  
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21. Kassandra Zoltner  
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22. Sebastian Techert  
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