

List of Publications

320. G. Theumer, I. Bauer, A. Jäger, L. Schwark, H.-J. Knölker, *Eur. J. Org. Chem.* **2022**, e202200456: Transition Metals in Organic Synthesis, Part 151. Palladium-Catalyzed Synthesis of Alkylcarbazoles and Their Identification in Petroleum and Source Rocks.
319. R. Radhakrishnan, V. R. Dronamraju, M. Leung, A. Gruesen, A. K. Solanki, S. Walterhouse, H. Roehrich, G. Song, R. da Costa Monsanto, S. Cureoglu, R. Martin, A. A. Kondkar, F. J. van Kuijk, S. R. Montezuma, H.-J. Knölker, R. B. Hufnagel, G. P. Lobo, *Ophthalmic Genet.* **2022**, *43*, 285–300: The Role of Motor Proteins in Photoreceptor Protein Transport and Visual Function.
318. A. Purtsas, M. Rosenkranz, E. Dmitrieva, O. Kataeva, H.-J. Knölker, *Chem. Eur. J.* **2022**, *28*, e202104292: Transition Metals in Organic Synthesis, Part 150. Iron-Catalyzed Oxidative C–O and C–N Coupling Reactions Using Air as Sole Oxidant.
317. F. Puls, F. Seewald, V. Grinenko, H.-H. Klauß, H.-J. Knölker, *Chem. Eur. J.* **2021**, *27*, 16776–16787: Transition Metals in Organic Synthesis, Part 149. Mechanistic Studies on the Hexadecafluorophthalocyanine–Iron-Catalyzed Wacker-Type Oxidation of Olefins to Ketones.
316. D. Mishig, M. Gruner, T. Lübken, C. Ganbaatar, D. Regdel, H.-J. Knölker, *Sci. Rep.* **2021**, *11*, 13740: Isolation and Structure Elucidation of Pyridine Alkaloids from the Aerial Parts of the Mongolian Medicinal Plant *Caryopteris mongolica* Bunge.
315. A. K. Solanki, M. R. Biswal, S. Walterhouse, R. Martin, A. A. Kondkar, H.-J. Knölker, B. Rahman, E. Arif, S. Husain, S. R. Montezuma, D. Nihalani, G. P. Lobo, *Cells* **2021**, *10*, 1322: Loss of Motor Protein MYO1C Causes Rhodopsin Mislocation and Results in Impaired Visual Function.
314. A. Åslund, M. H. Bokhari, E. Wetterdal, R. Martin, H.-J. Knölker, T. Bengtsson, *Mol. Metab.* **2021**, *53*, 101247: Myosin 1c: A Novel Regulator of Glucose Uptake in Brown Adipocytes.
313. F. Puls, P. Linke, O. Kataeva, H.-J. Knölker, *Angew. Chem.* **2021**, *133*, 14202–14209; *Angew. Chem. Int. Ed.* **2021**, *60*, 14083–14090: Transition Metals in Organic Synthesis, Part 148. Iron-Catalyzed Wacker-type Oxidation of Olefins at Room Temperature with 1,3-Diketones or Neocuproine as Ligands.
312. M. Witting, U. Schmidt, H.-J. Knölker, *Anal. Bioanal. Chem.* **2021**, *413*, 2091–2102: UHPLC-IM-Q-ToFMS Analysis of Maradolipids, Found Exclusively in *Caenorhabditis elegans* Dauer Larvae.
311. H.-J. Knölker, *Sitzungsberichte der Sächsischen Akademie der Wissenschaften zu Leipzig – Mathematisch-naturwissenschaftliche Klasse*, S. Hirzel, Stuttgart/Leipzig, **2021**, Band 133, Heft 4, S. 1–30: Katalyse – Eine Renaissance der „Eisenzeit“?
310. S. Vellino, C. Oddou, P. Rivier, C. Boyault, E. Hiriart-Bryant, A. Kraut, R. Martin, Y. Coute, H.-J. Knölker, M. A. Valverde, C. Albigès-Rizo, O. Destaing, *J. Cell Biol.* **2021**, *220*, e201910079: Cross-Talk Between the Calcium Channel TRPV4 and Reactive Oxygen Species Interlocks Adhesive and Degradative Functions of Invadosomes.
309. S. Richter, R. Martin, H. O. Gutzeit, H.-J. Knölker, *Bioorg. Med. Chem.* **2021**, *30*, 115928: *In Vitro* and *In Vivo* Effects of Inhibitors on Actin and Myosin.

308. V. Lösle, O. Kataeva, H.-J. Knölker, *Synthesis* **2021**, *53*, 359–364: Transition Metals in Organic Synthesis, Part 147. First Total Synthesis and Investigation of the X-ray Crystal Structure of the Pyrano[3,2-*a*]carbazole Alkaloid Clausenalansine A.
307. V. Lösle, H.-J. Knölker, *Arkivoc* **2020**, *vii*, 192–200: Transition Metals in Organic Synthesis, Part 146. Synthesis of Indolo[2,3-*a*]carbazole via an Intramolecular McMurry Coupling.
306. H. Klafki, P. Rieper, A. Matzen, S. Zampar, O. Wirths, J. Vogelsang, D. Osterloh, L. Rohdenburg, T. J. Oberstein, O. Jahn, I. Beyer, I. Lachmann, H.-J. Knölker, J. Wiltfang, *Int. J. Mol. Sci.* **2020**, *21*, 6564: Development and Technical Validation of an Immunoassay for the Detection of APP_{669–711} (A β _{3–40}) in Biological Samples.
305. A. Kishonti, A. Jäger, H.-J. Knölker, *Eur. J. Org. Chem.* **2020**, 5572–5579: Transition Metals in Organic Synthesis, Part 145. Synthesis of Clausenal, 1,5-Dimethoxycarbazole-3-carbaldehyde and 2,5-Dimethoxycarbazole-3-carbaldehyde.
304. P. Spitzer, M. Walter, C. Göth, T. J. Oberstein, P. Linning, H.-J. Knölker, J. Kornhuber, J. M. Maler, *Front. Immunol.* **2020**, *11* 1967: Pharmacological Inhibition of Amyloidogenic APP Processing and Knock-Down of APP in Primary Human Macrophages Impairs the Secretion of Cytokines.
303. A. Purtsas, S. Stipurin, O. Kataeva, H.-J. Knölker, *Molecules* **2020**, *25*, 1608: Transition Metals in Organic Synthesis, Part 144. Iron-Catalyzed Synthesis, Structure, and Photophysical Properties of Tetraarylnaphthidines.
302. A. Purtsas, O. Kataeva, H.-J. Knölker, *Chem. Eur. J.* **2020**, *26*, 2499–2508: Transition Metals in Organic Synthesis, Part 143. Iron-Catalyzed C–C Cross-Coupling Reaction of Tertiary Anilines with Hydroxyarenes by Using Air as Sole Oxidant.
301. J. R. Suresh, G. Whitener, G. Theumer, D. J. Bröcher, I. Bauer, W. Massa, H.-J. Knölker, *Chem. Eur. J.* **2019**, *25*, 13759–13765: Transition Metals in Organic Synthesis, Part 142. Synthesis and Crystal Structure of Dimorphic Dibenzo[*cde,opq*]rubicene.
300. S. C. Teixeira, D. S. Lopes, M. S. da Silva, F. A. C. da Luz, S. N. C. Gimenes, B. C. Borges, A. A. da Silva, F. A. Martins, M. A. dos Santos, T. L. Teixeira, R. A. Oliveira, V. d. M. R. Ávila, M. J. B. Silva, M. C. Elias, R. Martin, C. V. da Silva, H.-J. Knölker, *ChemBioChem* **2019**, *20*, 2390–2401: Pentachloropseudilin Impairs Angiogenesis by Disrupting the Actin Cytoskeleton, Integrin Trafficking and the Cell Cycle.
299. E. Arif, A. K. Solanki, P. Srivastava, B. Rahman, B. R. Tash, L. B. Holzman, M. G. Janech, R. Martin, H.-J. Knölker, W. R. Fitzgibbon, P. Deng, M. N. Budisavljevic, W.-K. Syn, C. Wang, J. H. Lipschutz, S.-H. Kwon, D. Nihalani, *Kidney International* **2019**, *96*, 139–158: The Motor Protein Myo 1c Regulates Transforming Growth Factor- β -Signaling and Fibrosis in Podocytes.
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297. J. A. Nieto-Garai, B. Glass, C. Bunn, M. Giese, G. Jennings, B. Brankatschk, S. Agarwal, K. Börner, F. X. Contreras, H.-J. Knölker, C. Zankl, K. Simons, C. Schroeder, M. Lorizate, H.-G.

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296. F. Puls, O. Kataeva, H.-J. Knölker, *Eur. J. Org. Chem.* **2018**, 4272–4276: Transition Metals in Organic Synthesis, Part 140. Synthesis of Euchrestifoline Using Iron- and Palladium-Catalyzed C–H Bond Activations.
295. U. Schmidt, G. Theumer, A. Jäger, O. Kataeva, B. Wan, S. G. Franzblau, H.-J. Knölker, *Molecules* **2018**, *23*, 1402: Transition Metals in Organic Synthesis, Part 139. Synthesis and Activity against *Mycobacterium tuberculosis* of Olivacine and Oxygenated Derivatives.
294. C. Brütting, A. W. Schmidt, O. Kataeva, H.-J. Knölker, *Synthesis* **2018**, *50*, 2516–2522: Transition Metals in Organic Synthesis, Part 138. First Total Synthesis of 7-Isovaleryloxy-8-methoxy-girinimbine.
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292. S.-W. Wang, C.-L. Chung, Y.-C. Kao, R. Martin, H.-J. Knölker, M.-S. Shiao, C.-L. Chen, *J. Enzyme Inhib. Med. Chem.* **2018**, *33*, 920–935: Pentabromopseudilin: a Myosin V Inhibitor Suppresses TGF- β Activity by Recruiting the Type II TGF- β Receptor to Lysosomal Degradation.
291. C. Galles, G. M. Prez, S. Penkov, S. Boland, E. O. J. Porta, S. G. Altabe, G. R. Labadie, U. Schmidt, H.-J. Knölker, T. V. Kurzchalia, D. de Mendoza, *Sci. Rep.* **2018**, *8*, 6398: Endocannabinoids in *Caenorhabditis elegans* are Essential for the Mobilization of Cholesterol from Internal Reserves.
290. C.-L. Chung, S.-W. Wang, R. Martin, H.-J. Knölker, Y.-C. Kao, M.-H. Lin, J.-J. Chen, Y.-B. Huang, D.-C. Wu, C.-L. Chen, *ChemBioChem* **2018**, *19*, 851–864: Pentachloropseudilin Inhibits Transforming Growth Factor- β (TGF- β) Activity by Accelerating Cell-Surface Type II TGF- β Receptor Turnover in Target Cells.
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287. C. Brütting, R. F. Fritsche, S. K. Kutz, C. Börger, A. W. Schmidt, O. Kataeva, H.-J. Knölker, *Chem. Eur. J.* **2018**, *24*, 458–470: Transition Metals in Organic Synthesis, Part 136. Synthesis of 1,1'- and 2,2'-Bicarbazole Alkaloids by Iron(III)-Catalyzed Oxidative Coupling of 2- and 1-Hydroxycarbazoles.
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- Transition Metals in Organic Synthesis, Part 132. Anti-Tuberculosis Activity and Structure–Activity Relationships of Oxygenated Tricyclic Carbazole Alkaloids and Synthetic Derivatives.
284. T. Gensch, R. Thoran, N. Richter, H.-J. Knölker, *Chem. Eur. J.* **2017**, *23*, 15116–15123: Transition Metals in Organic Synthesis, Part 134. Reductive Eliminations from Diarylpalladium(II) Complexes: A Combined Experimental and Computational Investigation.
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