

## List of Publications Dedicated to Pierre H. Dixneuf

1. Electrochemical B-H Nitrogenation: Access to Amino Acid and BODIPY-Labeled nido-Carboranes  
L. Yang, B. B. Jai, A. Scheremetjew, R. Kuniyil, **L. Ackermann**  
*Angew. Chem. Int. Ed.* **2021**, *60*, 1482-1487.
2. Single-molecule junctions of multinuclear organometallic wires: long-range carrier transport brought about by metal-metal interaction  
Y. Tanaka, Y. Kato, K. Sugimoto, R. Kawano, T. Tada, S. Fujii, M. Kiguchi, **M. Akita**  
*Chem. Sci.* **2021**, *12*, 4338-4344.
3. Modelling diffusion at random arrays of electrodes: Revisiting the Voronoi tessellation concept  
G. Pireddu, I. Svir, **C. Amatore**, A. Oleinick  
*Electrochimica Acta* **2021**, *365*, 137338.
4. Catalytic C-H Functionalization of Unreactive Furan Cores in Bio-Derived Platform Chemicals  
B. Y. Karlinskii, **V.P. Ananikov**  
*ChemSusChem* **2021**, *14*, 558-568.
5. Synthesis of Carboxylic Acids by Palladium-Catalyzed Hydroxycarbonylation  
**R. Sang**, P. Kucmierczyk, R. Dghren, R. Razzaq, K. Dong, J. Liu, R. Franke, **R. Jackstell**, **M. Beller**  
*Angew. Chem. Int. Ed.* **2019**, *58*, 14365-14373.
6. Direct and Selective Palladium-Catalyzed Aminocarbonylation of Alkynols: Synthesis of Itaconimides  
Y. Ge, F. Ye, J. Yang, A. Spannenberg, **R. Jackstell**, **M. Beller**  
*Angew. Chem. Int. Ed.* **2021**, *60*, asap
7. Unsaturated Alcohols as Chain-Transfer Agents in Olefin Polymerization: Synthesis of Aldehyde End-Capped Oligomers and Polymers  
X.-W. Han, O. Daugulis, **M. Brookhart**  
*J. Am. Chem. Soc.* **2020**, *142*, 15431-15437.
8. Transformations of bio-sourced 4-hydroxyphenylpropanoids based on olefin metathesis  
**H. Bilel**, **N. Hamdi**, **C. Fischmeister**, **C. Bruneau**  
*ChemCatChem* **2020**, *12*, 5000-5021.
9. Copper-Mediated Synthesis of (E)-1-Azido and (Z)-1,2-Diazido Alkenes from 1-Alkene-1,2-diboronic Esters: An Approach to Mono and 1,2-Di-(1,2,3-Triazolyl)-Alkenes and Fused Bis-(1,2,3-Triazol)-Pyrazines  
M. Mali, V. Jayaram, **G. V. M. Sharma**, S. Ghosh, F. Berrée, V. Dorcet, **B. Carboni**  
*J. Org. Chem.* **2020**, *85*, 15104-15115.
10. Molybdenum and Tungsten Complexes with Carbon Dioxide and Ethylene Ligands  
M. Alvarez, A. Galindo, P. J. Perez, **E. Carmona**  
*Chem. Sci.* **2019**, *10*, 8541-8546.
11. Merging Two Functions in a Single Rh Catalyst System: Bimodular Conjugate for Light-Induced Oxidative Coupling  
J. Kim, D. Kim, **S. Chang**  
*J. Am. Chem. Soc.* **2020**, *142*, 19052-19057.

12. Ruthenium(II)-catalyzed acyloxylation of the ortho-C–H bond in 2-aryl-imidazoles with carboxylic acids  
C.-A. Wang, **N. Chatani**  
*Org. Chem. Front.* **2020**, *7*, 2955-2959. |
13. Catalyst-free visible-light induced synthesis of nitrogen and oxygen-containing heterocycles from 1,3-diketones  
**L. Chen**, Z. Lin, X. Zhang, L. Tan, **M. Zhang**, Y. Li  
*Environment. Chem. Lett.* **2021**, *19*, 1831–1837
14. Green synthesis of 1,4-dihydropyridines using cobalt carbon nanotubes as recyclable catalysts  
K. Wu, Y. Bai, D. Chen, **L. Chen**, Y. Huang, S. Bai, Y. Li  
*Environment. Chem. Lett.* **2021**, *19*, 1903–1910.
15. Boosting the Metathesis Activity of Molybdenum Oxo Alkylidenes by Tuning the Anionic Ligand  $\sigma$  Donation  
J. De Jesus Silva, M. Pucino, F. Zhai, D. Mance, Z.J. Berkson, D. F. Nater, A. H. Hoveyda, **C. Copéret**, **R. R. Schrock**  
*Inorg. Chem.* **2021**, *60*, 10, 6875–6880.
16. Iron-catalyzed hydrosilylation of diacids in the presence of amines: a new route to cyclic amines  
D. Wei, C. Netkaew, J. Wu, **C. Darcel**  
*ChemCatChem* **2020**, *12*, 5449-5455.
17. Nuclear Magnetic Resonance and Computational Study of trans-( $\mu_2$ : $\eta^2$ , $\eta^2$ -1,3-Butadiene) bis(trichloroplatinate(II))  
I. H. Silalahi, A. P. Heyam, C. A. Goult, P. Aguiar, P. B. Karadakov, **D. W. Bruce**  
*Organometallics* **2020**, *39*, 4723-4734.
18. Catalytic Chemoselective Sulfimidation with an Electrophilic [Co(III)(TAML)]<sup>-</sup>-Nitrene Radical Complex  
N. P. van Leest, J. I. van der Vlugt, **B. de Bruin**  
*Chem. Eur. J.* **2021**, *27*, 371-378.
19. Exploiting the Reactivity of Fluorinated 2-Arylpyridines in Pd-Catalyzed C–H Bond Arylation for the Preparation of Bright Emitting Iridium(III) Complexes  
R. Boyaala, M. Peng, W.-S. Tai, **R. Touzani**, T. Roisnel, V. Dorcet, **Y. Chi**, **V. Guerschais**, **H. Doucet**, **Jean-François Soulé**  
*Inorg. Chem.* **2020**, *59*, 13898-13911.
20. Optimisation of catalysts coupling in multi-catalytic hybrid materials: perspectives for the next revolution in catalysis  
E. Heuson, R. Froidevaux, I. Itabaiana, Jr., R. Wojcieszak, M. Capronb, **F. Dumeignil**  
*Green Chem.* **2021**, *23*, 1942-1954.
21. <sup>31</sup>P Chemical Shifts in Ru(II) Phosphine Complexes. A Computational Study of the Influence of the Coordination Sphere  
C. Raynaud, E. Norbert-Agaisse, B. R. James, **O. Eisenstein**  
*Inorg. Chem.* **2020**, *59*, 17038-17048.
22. The Impact of Water on Ru-Catalyzed Olefin Metathesis: Potent Deactivating Effects Even at Low Water Concentrations  
C. O. Blanco, J. Sims, D. L. Nascimento, A. Y. Goudreault, S. N. Steinmann, C. Michel, **D. E. Fogg**  
*ACS Catal.* **2021**, *11*, 893-899.
23. Grubbs Metathesis Enabled by a Light-Driven gem-Hydrogenation of Internal Alkynes  
T. Biberger, R. J. Zachmann, **A. Fürstner**  
*Angew. Chem. Int. Ed.* **2020**, *59*, 18423-18429.

24. Visible-Light-Mediated C–H Alkylation of Pyridine Derivatives  
F. Rammal, D. Gao, S. Boujnah, **A.-C. Gaumont**, A. A. Hussein, S. Lakhdar  
*Org. Lett.* **2020**, *22*, 7671-7675.
25. Coupling of Reformatsky Reagents with Aryl Chlorides Enabled by Ylide-Functionalized Phosphine Ligands  
Z. Hu, X.-J. Wei, J. Handelmann, A.-K. Seitz, I. Rodstein, V. H. Gessner, **L. J. Gooßen**  
*Angew. Chem. Int. Ed.* **2021**, *60*, 6778-6783.
26. Gold(I) Complexes Nuclearity in Constrained Ferrocenyl Diphosphines: Dramatic Effect in Gold-Catalyzed Enyne Cycloisomerization  
T.-A. Nguyen, **J. Roger**, H. Nasrallah, V. Rampazzi, S. Fournier, H. Cattey, E. D. Sosa Carrizo, P. Fleurat-Lessard, C. H. Devillers, **N. Pirio**, D. Lucas, **J.-C. Hierso**  
*Chem Asian J.* **2020**, *15*, 2879-2885.
27. Ligand-Controlled Regiodivergent Hydrosilylation of Conjugated Dienes Catalyzed by Mono(phosphine)palladium(0) Complexes  
N. Komine, T. Mitsui, S. Kikuchi, **M. Hirano**  
*Organometallics* **2020**, *39*, 4510-4524.
28. A Combined Experimental–Theoretical Study on Diels-Alder Reaction with Bio-Based Furfural: Towards Renewable Aromatics  
I van Scodeller, K. de Oliveira Vigier, E. Muller, C. Ma, F. Guégan, R. Wischert, **F. Jérôme**  
*ChemSusChem* **2021**, *14*, 313-323.
29. A hierarchical assembly strategy for near-infrared photothermal conversion: unconventional heterogeneous metalla[2]catenanes  
Y. Lu, D. Liu, Y.-J. Lin, **G.-X. Jin**  
*Chem. Sci.* **2020**, *11*, 11509-11513.
30. Palladium (II)–Salan Complexes as Catalysts for Suzuki–Miyaura C–C Cross Coupling in Water and Air. Effect of the Various Bridging Units within the Diamine Moieties on the Catalytic Performance  
S. Bunda, K. Voronova, Á. Kathó, A. Udvardy, **F. Joó**  
*Molecules* **2020**, *25*, 3993; doi:10.3390/molecules25173993.
31. Reduction of CO<sub>2</sub> by Hydrosilanes in the Presence of Formamidinates of Group 13 and 12 Elements  
W. Huang, T. Roisnel, V. Dorcet, C. Orione, **E. Kirillov**  
*Organometallics* **2020**, *39*, 698-710.
32. Silyloxymethanesulfinate as a sulfoxylate equivalent for the modular synthesis of sulfones and sulfonyl derivatives  
D.-K. Kim, H.S. Um, H. Park, S. Kim, J. Choi, C. Lee  
*Chem. Sci.* **2020**, *11*, 13071-13078.
33. Electrochemical Ring-Expansion to Synthesize Medium-Sized Lactams through C-C Bond Cleavage  
K. Liu, C. Song, X. Jiang, X. Dong, Y. Deng, W. Song, Y. Yang, **A. Lei**  
*CCS Chem.* **2020**, *2*, 2233-2244.
34. Electrochemical oxidative decarboxylation and 1,2-aryl migration towards the synthesis of 1,2-diaryl ethers  
**F. Bu**, L. Lu, X. Hu, S. Wang, H. Zhang, **A. Lei**  
*Chem. Sci.* **2020**, *11*, 10000-10004.

35. Manganese-Catalyzed Oxidative Azidation of C(sp<sup>3</sup>)-H Bonds under Electrophotocatalytic Conditions  
**L. Niu**, C. Jiang, Y. Liang, D. Liu, F. Bu, R. Shi, H. Chen, A. Dutta Chowdhury, **A. Lei**  
*J. Am. Chem. Soc.* **2020**, *142*, 17693617702.
36. Chemical Communication between Organometallic Single-Chain Polymer Nanoparticles  
V. Kobernik, I. Berkovich, A. Levy, **N. G. Lemcoff**, C.E. Diesendruck  
*Chem. Eur. J.* **2020**, *26*, 15835-15838.
37. Coupling without Coupling Reactions: En Route to Developing Phenols as Sustainable Coupling Partners via Dearomatization-Rearomatization Processes  
Z. Qiu, H. Zeng, **C.-J. Li**  
*Acc. Chem. Res.* **2020**, *53*, 2395-2413.
38. The effect of additives (pyrazine, pyrazole and their derivatives) in the oxidation of 2-butanol with FeCl<sub>3</sub>-H<sub>2</sub>O<sub>2</sub> in aqueous solutions  
M. Lopes de Araújo, G. Aguiar Correia, W. Alves Carvalho, L. S. Shul'pina, Y. N. Kozlov, G. B. Shul'pin, **D. Mandelli**  
*Catal. Today* **2021**, asap
39. Optically Pure C1-Symmetric Cyclic(alkyl)(amino)carbene Ruthenium Complexes for Asymmetric Olefin Metathesis  
J. Morvan, F. Vermersch, Z. Zhang, L. Falivene, T. Vives, V. Dorcet, T. Roisnel, C. Crévisy, L. Cavallo, N. Vanthuyne, G. Bertrand, R. Jazzar, **M. Mauduit**  
*J. Am. Chem. Soc.* **2020**, *142*, 19895-19901.
40. Metal-Ligand Cooperation Facilitates Bond Activation and Catalytic Hydrogenation with Zinc Pincer Complexes  
M. Rauch, S. Kar, A. Kumar, L. Avram, L. J. W. Shimon, **D. Milstein**  
*J. Am. Chem. Soc.* **2020**, *142*, 14513-14521.
41. Metal-Catalyzed Intermolecular Hydrofunctionalization of Allenes: Easy Access to Allylic Structures via the Selective Formation of C-N, C-C, and C-O Bonds  
R. Blicek, **M. Taillefer**, **F. Monnier**  
*Chem. Rev.* **2020**, *120*, 13545-13598.
42. Chiral Macrocycles Having C<sub>3</sub> Symmetry Resulting from Orientation of Thiophene Rings  
T. Miura, T. Nakamuro, Y. Ishihara, Y. Nagata, **M. Murakami**  
*Angew. Chem. Int. Ed.* **2020**, *59*, 20475-20479.
43. Aryl Radical Addition to Curvatures of Carbon Nanohorns for Single-Molecule-Level Molecular Imaging  
K. Kamei, T. Shimizu, K. Harano, **E. Nakamura**  
*Bull. Chem. Soc. Jpn.* **2020**, *93*, 1603-1608.
44. Fluorine-containing ruthenium-based olefin metathesis catalysts  
**S. M. Masoud**, D. V. Vorobyeva, D. A. Petropavlovskikh, **C. Bruneau**, **S. N. Osipov**  
*Russ. Chem. Rev.* **2021**, *90*, 419-450.
45. Synthesis, antimicrobial properties, and theoretical analysis of benzimidazole-2-ylidene silver(I) complexes  
**S. Demir Düşünceli**, D. Ayaz, E. Üstün, S. Günal, N. Özdemir, M. Dinçer, **İ. Özdemir**  
*J. Coord. Chem.* **2020**, *73*, 1967-1986.
46. Biological Activities of NHC-Pd(II) Complexes Based on Benzimidazolylidene N-heterocyclic Carbene (NHC) Ligands Bearing Aryl Substituents  
I. Al Nasr, N. Touj, W. Koko, T. Khan, **I. Özdemir**, **S. Yasar**, **N. Hamdi**  
*Catalysts* **2020**, *10*, 1190.

47. Tellurium(II)/Tellurium(III)-Catalyzed Cross-Dehydrogenative C-N Bond Formation  
C. Cremer, M. Goswami, C. K. Rank, B. de Bruin, **F. W. Patureau**  
*Angew. Chem. Int. Ed.* **2021**, *60*, 6451–6456
48. On the comparison of oxygen and sulfur transfer reactivities in phosphine and phosphorene: the case of R<sub>3</sub>Sb(X) carriers (X = O or S)  
A. Ienco, **M. Peruzzini**, G. Manca  
*Dalton Trans.* **2020**, *49*, 15072-15080.
49. Versatility of Amide-Functionalized Co(II) and Ni(II) Coordination Polymers: From Thermo-chromic-Triggered Structural Transformations to Supercapacitors and Electrocatalysts for Water Splitting  
A. Paul, K.K. Upadhyay, G. Backović, A. Karmakar, L. F. Vieira Ferreira, B. Šljukić, M. F. Montemor, M. F. C. Guedes da Silva, A. J. L. Pombeiro  
*Inorg. Chem.* **2020**, *59*, 16301-16318.
50. Eosin Y-Catalyzed Visible-Light-Mediated Aerobic Transformation of Pyrazolidine-3-One Derivatives  
N. Petek, U. Grošelj, J. Svete, **F. Požgan**, D. Kocar, B. Štefane  
*Catalysts* **2020**, *10*, 981.
51. An Apparent Umpolung Reactivity of Indole through [Au]-Catalysed Cyclisation and Lewis-Acid-Mediated Allylation  
M. H. Shinde, **C. V. Ramana**  
*Chem. Eur. J.* **2020**, *26*, 17171-17175.
52. Donor Functionalized Iron(II) N-Heterocyclic Carbene Complexes in Transfer Hydrogenation Reactions  
R. Lopes, Á. Raya-Barón, M. P. Robalo, C. Vinagreiro, S. Barroso, M. J. Romão, I. Fernández, M. M. Pereira, **B. Royo**  
*Eur. J. Inorg. Chem.* **2021**, 22-29.
53. Efficient and Clean Nickel Catalyzed  $\alpha$ -Allylation Reaction of Nitriles  
B. Mouhsine, A. Karim, C. Dumont, I. Suisse, **M. Sauthier**  
*Adv. Synth. Catal.* **2021**, *363*, 1457-1462.
54. Chiral Cobalt-Salen Complexes: Ubiquitous Species in Asymmetric Catalysis  
**E. Schulz**  
*Chem. Rec.* **2021**, *21*, 427-439.
55. Metal-Free Directed C-H Borylation of Pyrroles  
Z.-J. Wang, X. Chen, L. Wu, J. J. Wong, Y. Liang, Y. Zhao, K. N. Houk, **Z. Shi**  
*Angew. Chem. Int. Ed.* **2021**, *60*, 8500-8504.
56. Stereoisomerism as an Origin of Different Reactivities of Ir(III) PC(sp<sup>3</sup>)P Pincer Catalysts  
V. A. Kirkina, G. A. Silantsev, S. De-Botton, O. A. Filippov, E. M. Titova, A. A. Pavlov, **N. V. Belkova**, **L. M. Epstein**, D. Gelman, **E. S. Shubina**  
*Inorg. Chem.* **2020**, *59*, 11962-11975.
57. Well-defined Cp\*Co(III)-catalyzed Hydrogenation of Carbonates and Polycarbonates  
P. Dahiya, M. Kumar Gangwar, **B. Sundararaju**  
*ChemCatChem* **2021**, *13*, 934-939.
58. Cp\*Co(III)-Catalyzed Bis-isoquinolone Synthesis by C-H Annulation of Arylamide with 1,3-Diyne  
M. Sen, R. Mandal, A. Das, D. Kalsi, **B. Sundararaju**  
*Chem. Eur. J.* **2017**, *23*, 17454-17457.

59. Non-Pincer-Type Arene Ru(II) Catalysts for the Direct Synthesis of Azines from Alcohols and Hydrazine under Aerobic Conditions  
S. Saranya, R. Ramesh, **D. Sémeril**  
*Organometallics* **2020**, *39*, 3194-3201.
60. Unmasking Arene Ruthenium Building Blocks  
**B. Therrien**  
*Chem. Rec.* **2021**, *21*, 460-468.
61. Forging C-SeCF<sub>3</sub> Bonds with Trifluoromethyl Tolueneselenosulfonate under Visible-Light  
D. Louvel, C. Ghiazza, V. Debrauwer, L. Khrouz, C. Monnereau, **A. Tlili**  
*Chem. Rec.* **2021**, *21*, 417-426.
62. Electrophilic ring fluorination of 3,5-disubstituted pyrazoles: application to the formal synthesis of a neprilysin inhibitor key intermediate  
A. Westermeyer, G. Guillaumot, P. Phansavath, **V. Ratovelomanana-Vidal**  
*New J. Chem.* **2020**, *44*, 20535-20543.
63. Cu(I)/Chiral Bisoxazoline-Catalyzed Enantioselective Sommelet-Hauser Rearrangement of Sulfonium Ylides  
S.-S. Li, **J. Wang**  
*J. Org. Chem.* **2020**, *85*, 12343-12358.
64. Cyclic Bis-alkylidene Complexes of Titanium and Zirconium: Synthesis, Characterization, and Reaction  
Y. Zhang, B. Wu, M. Zhong, W.-X. Zhang, **Z. Xi**  
*Chem. Eur. J.* **2020**, *26*, 16472-16479.
65. 8-Aminoquinoline as a bidentate traceless directing group for Cu-catalyzed selective B(4,5)-H disulfenylation of o-carboranes  
Y. Chen, Y. Quan, **Z. Xie**  
*Chem. Commun.* **2020**, *56*, 12997-13000.
66. Asymmetric Reductive Amination/Ring-Closing Cascade: Direct Synthesis of Enantioenriched Biaryl-Bridged NH Lactams  
Y. Zhang, Y.-Q. Liu, L. Hu, **X. Zhang**, Q. Yin  
*Org. Lett.* **2020**, *22*, 6479-6483.
67. Ruthenium-Catalyzed Carbonylative Coupling of Anilines with Organoboranes by the Cleavage of Neutral Aryl C-N Bond  
J.-X. Xu, F. Zhao, Y. Yuan, **X.-F. Wu**  
*Org. Lett.* **2020**, *22*, 2756-2760.
68. Rhodium-Catalyzed Atroposelective Oxidative C-H/C-H Cross- Coupling Reaction of 1-Aryl Isoquinoline Derivatives with Electron-Rich Heteroarenes  
Q. Wang, W.-W. Zhang, H. Song, J. Wang, C. Zheng, Q. Gu, **S.-L. You**  
*J. Am. Chem. Soc.* **2020**, *142*, 15678-15685.
69. Carboxyl Group-Directed Iridium-Catalyzed Enantioselective Hydrogenation of Aliphatic  $\gamma$ -Ketoacids  
M.-L. Li, Y. Li, J.-B. Pan, Y.-H. Li, S. Song, S.-F. Zhu, **Q.-L. Zhou**  
*ACS Catal.* **2020**, *10*, 10032-10039.
70. Spicing up Olefin Cross Metathesis with the Renewables Estragole and Methyl sorbate  
L. A. Ferreira, J. T. Silva, R. G. Alves, K. C.B. Oliveira, **E. N. dos Santos**  
*Appl. Catal. A-Gen.* **2021**, *620*, 118173
71. Ruthenium-Catalyzed Coupling Reactions of CO<sub>2</sub> with C<sub>2</sub>H<sub>4</sub> and Hydrosilanes towards Silyl Esters  
**K. Kunihiro**, S. Heyte, S. Paul, T. Roisnel, **J.-F. Carpentier**, **E. Kirillov**  
*Chem. Eur. J.* **2021**, *27*, 3997 – 4003

72. Enantio- and Diastereoselective, Complete Hydrogenation of Benzofurans by Cascade Catalysis  
D. Moock, T. Wagener, T. Hu, T. Gallagher, **F. Glorius**  
*Angew. Chem. Int. Ed.* **2021**, *60*, 1 – 6
73. Topological Prediction of Palladium Coordination Cages  
D. A. Poole III, E. O. Bobylev, S. Mathew, **J. N. H. Reek**  
*Chem. Sci.*, **2020**, *11*, 12350 – 12357
74. An Annelated Mesoionic Carbene (MIC) Based Ru(II) Catalyst for Chemo- and Stereoselective Semihydrogenation of Internal and Terminal Alkynes  
S. Yadav, I. Dutta, S. Saha, S. Das, S. K. Pati, J. Choudhury, **J. K. Bera**  
*Organometallics* **2020**, *39*, 17, 3212 – 3223