

Attachment no. 7

**List of scientific achievements
which present a major contribution
to the development of a specific discipline**

*Synthesis of alkenyl derivatives of organosilicon
compounds by hydrosilylation of alkynes
and 1,3-diyne*

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1. Information on scientific set out in art. 219 para 1. point 2 of the Act

1.1. Cycle of scientific articles related thematically, pursuant to art. 219 para 1. point 2b of the Act

The cycle of related articles entitled "*Synthesis of alkenyl-derivatives of organosilicon compounds by hydrosilylation of alkynes and 1,3-diyne*" consists of from 8 articles. Article **H1** is a chapter titled "*Hydrometallation of conjugated 1,3-diyne*", part of the online encyclopedia "*Encyclopedia of inorganic and bioinorganic Chemistry*". Articles **H2-H8** concern the description of experimental research. The cycle includes:

H1. "*Hydrometallation of conjugated 1,3-diyne*",

Jędrzej Walkowiak*, **Adrian Franczyk**, Jakub Szyling, Kinga Stefanowska,

in *Encyclopedia of inorganic and bioinorganic chemistry*, **2023**, pp. 1-35, (DOI: 10.1002/9781119951438.eibc2831).

Total citations = Scopus (0); Web of Science (0); Google Scholar (0).

Total citations without self-citations = Scopus (0); Web of Science (0); Google Scholar (0).

H2. "*Directed cis-hydrosilylation of borylalkynes to borylsilylalkenes*",

Kinga Stefanowska, Tomasz Sokolnicki, Jędrzej Walkowiak, Agnieszka Czapik, **Adrian Franczyk***,

Chemical Communications, **2022**, 58(86), 12046–12049, (DOI: 10.1039/D2CC04318A), open access.

Article featured with graphic placed on the outside front cover of *Chemical Communications*.

IF₂₀₂₁ = 6,0; IF₂₀₂₂ = 4,9; IF^{5-yr}₂₀₂₁ = 5,9; IF^{5-yr}₂₀₂₂ = 4,9.

MEiN = 200 pts.

Total citations = = Scopus (6); Web of Science (5); Google Scholar (6).

Total citations without self-citations = Scopus (2); Web of Science (2); Google Scholar (2).

H3. “*Synthesis of bifunctional disiloxanes: via subsequent hydrosilylation of alkenes and alkynes*”,

Jakub Szyling, Rafał Januszewski, Kamila Jankowska, Jędrzej Walkowiak, Ireneusz Kownacki, **Adrian Franczyk***,

Chemical Communications, **2021**, 57(37), 4504–4507, (DOI: 10.1039/D1CC01253C), open access.

Article featured with graphic placed on the outside back cover of *Chemical Communications*.

IF₂₀₂₁ = 6,0; IF₂₀₂₂ = 4,9; IF^{5-yr}₂₀₂₁ = 5,9; IF^{5-yr}₂₀₂₂ = 4,9.

MEiN = 200 pts.

Total citations = Scopus (12); Web of Science (11); Google Scholar (12).

Total citations without self-citations = Scopus (7); Web of Science (6); Google Scholar (7).

H4. “*Synthesis of unsymmetrically and symmetrically functionalized disiloxanes via subsequent hydrosilylation of C≡C bonds*”,

Jakub Szyling, Jędrzej Walkowiak, Agnieszka Czapik, **Adrian Franczyk***,

Scientific Reports, **2023**, 13, 10244 (DOI: 10.1038/s41598-023-37375-8), open access.

IF₂₀₂₂ = 4,6; IF^{5-yr}₂₀₂₂ = 4,9.

MEiN = 140 pts.

Total citations = Scopus (0); Web of Science (0); Google Scholar (0).

Total citations without self-citations = Scopus (0); Web of Science (0); Google Scholar (0).

H5. “*Synthesis of functional 3-buten-1-ynes and 1,3-butadienes with silsesquioxane moiety via hydrosilylation of 1,3-diynes*”,

Kinga Stefanowska, **Adrian Franczyk***, Jakub Szyling, Jędrzej Walkowiak*,

ChemCatChem, **2019**, 11, 4848-4853 (DOI: 10.1002/cctc.201901082).

IF₂₀₁₉ = 4,8; IF₂₀₂₂ = 4,5; IF^{5-yr}₂₀₁₉ = 4,8; IF^{5-yr}₂₀₂₂ = 4,6.

MEiN = 100 pts.

Total citations = Scopus (15); Web of Science (14); Google Scholar (18).

Total citations without self-citations = Scopus (7); Web of Science (7); Google Scholar (8).

H6. “Alkenyl-functionalized open-cage silsesquioxanes $(R\text{SiMe}_2\text{O})_3R'_7\text{Si}_7\text{O}_9$: a novel class of building nanoblocks”,

Kinga Stefanowska, Jakub Szyling, Jędrzej Walkowiak, **Adrian Franczyk***,

Inorganic Chemistry, **2021**, *60*(15), 11006–11013 (DOI: 10.1021/acs.inorgchem.1c00689), open access.

Article highlighted with graphics placed on the supplementary journal cover of *Inorganic Chemistry*.

IF₂₀₂₁ = 5,4; IF₂₀₂₂ = 4,6; IF^{5-yr}₂₀₂₁ = 5,0; IF^{5-yr}₂₀₂₂ = 4,4.

MEiN = 140 pts.

Total citations = Scopus (12); Web of Science (11); Google Scholar (14).

Total citations without self-citations = Scopus (5); Web of Science (5); Google Scholar (6).

H7. “Selective hydrosilylation of alkynes with octaspherosilicate $(\text{HSiMe}_2\text{O})_8\text{Si}_8\text{O}_{12}$ ”,

Kinga Stefanowska, **Adrian Franczyk***, Jakub Szyling, Mikołaj Pyziak, Piotr Pawluć, Jędrzej Walkowiak*,

Chemistry - An Asian Journal, **2018**, *13*(16), 2101-2108 (DOI: 10.1002/asia.201800726).

IF₂₀₁₈ = 3,7; IF₂₀₂₂ = 4,1; IF^{5-yr}₂₀₁₈ = 3,5; IF^{5-yr}₂₀₂₂ = 3,8.

MEiN = 100 pts.

Total citations = Scopus (21); Web of Science (20); Google Scholar (21).

Total citations without self-citations = Scopus (9); Web of Science (9); Google Scholar (9).

H8. “*Functionalization of octaspherosilicate (HSiMe₂O)₈Si₈O₁₂ with buta-1,3-diyne by hydrosilylation*”,

Kinga Stefanowska, Jakub Nagórny, Jakub Szyling, **Adrian Franczyk***,

Scientific Reports, **2023**, *13*, 14314 (DOI: 10.1038/s41598-023-41461-2), open access.

IF₂₀₂₂= 4,6; IF^{5-yr}₂₀₂₂= 4,9.

MEiN = 140 pts.

Total citations = Scopus (0); Web of Science (0); Google Scholar (0).

Total citations without self-citations = Scopus (0); Web of Science (0); Google Scholar (0).

2. Information on scientific activity

2.1. List of published scientific monographs

None.

2.2. List of published chapters in scientific monographs.

A) Before Ph.D.:

None.

B) After Ph.D.:

International publications:

1. “*Synthesis of functionalized silsesquioxanes as molecular templates for hybrid materials*”,

Beata Dudziec, Patrycja Żak, Michał Dutkiewicz, **Adrian Franczyk**,
Bogdan Marciniak,

in “*Efficient Methods for Preparing Silicon Compounds*”, Roesky, H.W. (Ed.), Elsevier
Inc., **2016**, 143-159.

Total citations = Scopus (3); Web of Science (0); Google Scholar (0).

Total citations without self-citations = Scopus (2); Web of Science (0);
Google Scholar (0).

2. “*Study of UV ageing of polyurethane elastomers modified by polyhedral oligomeric silsesquioxanes*”

Małgorzata Jancia, Edyta Hebda, Krzysztof Pielichowski, **Adrian Franczyk**,
Bogdan Marciniec,

in Modern polymeric materials for environmental applications **2013**, 5, 187.

Total citations = Scopus (0); Web of Science (0); Google Scholar (2).

Total citations without self-citations = Scopus (0); Web of Science (0);
Google Scholar (2).

3. Publication marked in the series with the symbol **H1**.

“*Hydrometallation of conjugated 1,3-diyne*”,

Jędrzej Walkowiak*, **Adrian Franczyk**, Jakub Szyling, Kinga Stefanowska,
in Encyclopedia of inorganic and bioinorganic chemistry,

2023, pp. 1-35, (DOI: 10.1002/9781119951438.eibc2831) (invited article).

Total citations = Scopus (0); Web of Science (0); Google Scholar (0).

Total citations without self-citations = Scopus (0); Web of Science (0);
Google Scholar (0).

Domestic publishing:

1. “*Titanosilsesquioxanes as catalysts for olefin polymerization processes*”,
Adrian Franczyk, Kinga Stefanowska, Marzena Białek, Krystyna Czaja,
Bogdan Marciniec,
in Research and development of young scientists in Poland 2015, Poznan, published
by Młodzi Naukowcy, ISBN 978-83-942083-6-3; ISBN 978-83-65362-22-3; **2015**,
str. 22-26.
2. “*Aluminasilsesquioxanes – synthesis and applications*”,
Adrian Franczyk, Jakub Szyling, Marzena Białek, Krystyna Czaja, Bogdan Marciniec,
in Research and development of young scientists in Poland 2015, Poznan, published
by Młodzi Naukowcy, ISBN (całość) 978-83-942083-6-3; ISBN 978-83-65362-22-3;
2015, str. 29-35.

3. *“Supercritical CO₂ in homogeneous catalysis - a green alternative to currently used solvents”*,
Jakub Szyling, Kinga Stefanowska, **Adrian Franczyk**, Jędrzej Walkowiak,
Hieronim Maciejewski,
in Research and development of young scientists in Poland 2016, published by: Młodzi
Naukowcy, ISBN: 978-83-65362-21-6, **2016** (8), str. 98-105.
4. *“The use of the IL/scCO₂ system in catalytic processes”*,
Jakub Szyling, Kinga Stefanowska, **Adrian Franczyk**, Jędrzej Walkowiak,
Hieronim Maciejewski,
in Research and development of young scientists in Poland 2016, published by: Młodzi
Naukowcy, ISBN: 978-83-65362-21-6, **2016**, 8, str. 106-114.
5. *“Literature review of hydrosilylation reactions in modern, green solvents”*,
Kinga Stefanowska, Jakub Szyling, **Adrian. Franczyk**, Jędrzej Walkowiak,
in Research and development of young scientists in Poland 2016, published
by Młodzi Naukowcy, ISBN: 978-83-65362-21-6, **2016**, 8, str. 80-88.
6. *“Methods for the synthesis of alkenyl silsesquioxanes and spherosilicates”*,
Kinga Stefanowska, Jakub Szyling, **Adrian Franczyk**, Jędrzej Walkowiak,
Bogdan Marciniec,
in Research and development of young scientists in Poland 2016, published by Młodzi
Naukowcy, ISBN: 978-83-65362-21-6, **2016**, 8, 89-97.
7. *“Application of methacryloxysilsesquioxanes in the synthesis of linear homopolymers
of poly(T₈R₇(-R'-MA))”*,
Adrian Franczyk, Kinga Stefanowska, Bogdan Marciniec,
in Research and development of young scientists in Poland 2016, published by Młodzi
Naukowcy,
ISBN 978-83-65362-13-1, ISBN 978-83-65362-93-3, **2016**, str. 5-11.

2.3. Information about membership in editorial boards preparing scientific monographs for publication

None.

2.4. List of articles published in scientific journals (including the articles not mentioned in section 1.1.)

A) Before Ph.D.:

1. “*Catalysis of hydrosilylation by well-defined rhodium siloxide complexes immobilized on silica*”,

Bogdan Marciniak, Karol Szubert, Ryszard Fiedorow, Ireneusz Kownacki, Marek J. Potrzebowski, Michał Dutkiewicz, **Adrian Franczyk**,

Journal of Molecular Catalysis A: Chemical **2009**, *310*, 9-16
(DOI: 10.1016/j.molcata.2009.05.013).

IF₂₀₀₉ = 3,1; IF₂₀₁₈ = 5,0; IF^{5-yr}₂₀₀₉ = 3,2; IF^{5-yr}₂₀₁₈ = 4,3.

MEiN = no data.

The journal was last published in 2018. That's why IF₂₀₁₈ and IF^{5-yr}₂₀₁₈ are given instead of IF₂₀₂₂ and IF^{5-yr}₂₀₂₂ as it is in the case of other described herein articles.

The current name is *Molecular Catalysis*.

IF₂₀₂₂ = 4,6; IF^{5-yr}₂₀₂₂ = 4,2.

MEiN = 70 pts.

Total citations = Scopus (27); Web of Science (26); Google Scholar (36);

Total citations without self-citations = Scopus (25); Web of Science (24);

Google Scholar (34);

2. “*(Z)-1,2-bis(ethoxydimethylsilyl)arylethenes as new building blocks for organic synthesis*”,

Piotr Pawluć, Grzegorz Hreczycho, Justyna Szudkowska, **Adrian Franczyk**,

Applied Organometallic Chemistry **2010**, *24*, 853-857 (DOI: 10.1002/aoc.1699).

IF₂₀₁₀ = 2,0; IF₂₀₂₂ = 3,9; IF^{5-yr}₂₀₁₀ = 1,6; IF^{5-yr}₂₀₂₂ = 3,5.

MEiN = 100 pts.

Total citations = Scopus (3); Web of Science (3); Google Scholar (3).

Total citations without self-citations = Scopus (3); Web of Science (3); Google Scholar (3).

3. *"Silsesquioxyl rhodium(I) complexes - synthesis, structure and catalytic activity"*,
Bogdan Marciniak*, Ireneusz Kownacki, **Adrian Franczyk**, Maciej Kubicki,
Dalton Transactions **2011**, 40, 5073-5077 (DOI: 10.1039/C0DT01631D).
IF₂₀₁₁ = 3,8; IF₂₀₂₂ = 4,0; IF^{5-yr}₂₀₁₁ = 3,7; IF^{5-yr}₂₀₂₂ = 3,7.
MEiN = 140 pts.
Total citations = Scopus (16); Web of Science (18); Google Scholar (18).
Total citations without self-citations = Scopus (14); Web of Science (16);
Google Scholar (16).

4. *"(E)-9-(2-iodovinyl)-9H-carbazole: A new coupling reagent for the synthesis of π -conjugated carbazoles"*,
Piotr Pawluć, **Adrian Franczyk**, Jędrzej Walkowiak, Grzegorz Hreczycho,
Maciej Kubicki,
Organic Letters **2011**, 13, 1976-1979 (DOI: 10.1021/ol200350a).
IF₂₀₁₁ = 5,8; IF₂₀₂₂ = 5,2; IF^{5-yr}₂₀₁₁ = 5,6; IF^{5-yr}₂₀₂₂ = 4,9.
MEiN = 140 pts.
Total citations = Scopus (31); Web of Science (29); Google Scholar (35).
Total citations without self-citations = Scopus (24); Web of Science (22);
Google Scholar (28).

5. *"Highly stereoselective synthesis of N-substituted π -conjugated phthalimides"*,
Piotr Pawluć*, **Adrian Franczyk**, Jędrzej Walkowiak, Grzegorz Hreczycho,
Maciej Kubicki, Bogdan Marciniak,
Tetrahedron **2012**, 68, 3545-3551 (DOI: 10.1016/j.tet.2012.03.012).
IF₂₀₁₂ = 2,8; IF₂₀₂₂ = 2,1; IF^{5-yr}₂₀₁₂ = 2,9; IF^{5-yr}₂₀₂₂ = 1,9.
MEiN = 70 pts.
Total citations = Scopus (21); Web of Science (20); Google Scholar (29).
Total citations without self-citations = Scopus (17); Web of Science (16);
Google Scholar (25).

6. *"Polyurethanes modified with functionalized silsesquioxane - synthesis and properties"*
[Poliuretany modyfikowane funkcjonalizowanym silseskwioksanem - synteza i właściwości],

Krzysztof Pielichowski*, Małgorzata Jancia, Edyta Hebda, Joanna Pagacz, Jan Pielichowski, Bogdan Marciniak, **Adrian Franczyk**,

Polimery **2013**, 58(10), 783–793.

IF₂₀₁₃ = 0,6; IF₂₀₂₂ = 1,6; IF^{5-yr}₂₀₁₃ = 0,6; IF^{5-yr}₂₀₂₂ = 1,2.

MEiN = 100 pts.

Total citations = Scopus (8); Web of Science (8); Google Scholar (12).

Total citations without self-citations = Scopus (7); Web of Science (7); Google Scholar (12).

7. “*A highly selective synthesis of 1-substituted (E)-buta-1,3-dienes with 4,4,5,5-tetramethyl-2-vinyl-1,3,2-dioxaborolane as building block*”,

Justyna Szudkowska-Frątczak, Alicja Ryba, **Adrian Franczyk**, Jędrzej Walkowiak, Maciej Kubicki, Piotr Pawluć*,

Applied Organometallic Chemistry **2014**, 28, 137–139 (DOI: 10.1002/aoc.3095).

IF₂₀₁₄ = 2,2; IF₂₀₂₂ = 3,9; IF^{5-yr}₂₀₁₀ = 2,1; IF^{5-yr}₂₀₂₂ = 3,5.

MEiN = 100 pts.

Total citations = Scopus (6); Web of Science (6); Google Scholar (7).

Total citations without self-citations = Scopus (6); Web of Science (6); Google Scholar (7).

8. “*Synthesis of high molecular weight polymethacrylates with polyhedral oligomeric silsesquioxane moieties by atom transfer radical polymerization*”,

Adrian Franczyk, Hongkun He, Joanna Burdyńska, Chin Ming Hui, Krzysztof Matyjaszewski*, Bogdan Marciniak*,

ACS Macro Letters **2014**, 3, 799-802 (DOI: 10.1021/mz5003799)

IF₂₀₁₄ = 5,7; IF₂₀₂₂ = 5,8; IF^{5-yr}₂₀₁₄ = 5,9; IF^{5-yr}₂₀₂₂ = 5,9.

MEiN = 140 pts.

Total citations = Scopus (32); Web of Science (31); Google Scholar (32).

Total citations without self-citations = Scopus (27); Web of Science (27); Google Scholar (28).

B) After Ph.D.:

1. “*Polymethacrylates with polyhedral oligomeric silsesquioxane (POSS) moieties: influence of spacer length on packing, thermodynamics, and dynamics*”,

Stelios Alexandris, **Adrian Franczyk**, George Papamokos, Bogdan Marciniak, Krzysztof Matyjaszewski, Kaloian Koynov, Markus Mezger, George Floudas*,
Macromolecules, **2015**, 48 (10), 3376–3385 (DOI: 10.1021/acs.macromol.5b00663).

IF₂₀₁₅ = 5,5; IF₂₀₂₂ = 5,5; IF^{5-yr}₂₀₁₅ = 5,6; IF^{5-yr}₂₀₂₂ = 5,7.

MEiN = 140 pts.

Total citations = Scopus (36); Web of Science (33); Google Scholar (35).

Total citations without self-citations = Scopus (29); Web of Science (27);
Google Scholar (28).

2. “*Synthesis and catalytic behavior in olefin polymerization of bimetallic titanium(IV) silsesquioxane complex and its polymeric counterpart*”,

[„*Synteza bimetalicznego silseskwioksanowego kompleksu tytanu(IV) i jego polimerycznego odpowiednika oraz ich właściwości katalityczne w polimeryzacji olefin*”],

Monika Pochwała, Marzena Białek*, **Adrian Franczyk**, Krystyna Czaja,
Bogdan Marciniak,

Polimery, **2016**, 61(9), 591–599.

IF₂₀₁₆ = 0,78; IF₂₀₂₂ = 1,6; IF^{5-yr}₂₀₁₆ = 0,8; IF^{5-yr}₂₀₂₂ = 1,2.

MEiN = 100 pts.

Total citations = Scopus (1); Web of Science (1); Google Scholar (0).

Total citations without self-citations = Scopus (1); Web of Science (1);
Google Scholar (0).

3. “*Synthesis and catalytic performance in ethylene and 1-octene polymerization of chlorotitanium(IV) silsesquioxane complexes. Effect of increasing ligand denticity and type of nonreactive organic substituents*”,

Monika Pochwała, Marzena Białek*, **Adrian Franczyk**, Bogdan Marciniak,
Krystyna Czaja,

European Polymer Journal, **2016**, 79, 121-131

(DOI: 10.1016/j.eurpolymj.2016.04.020).

IF₂₀₁₆ = 3,5; IF₂₀₂₂ = 6,0; IF^{5-yr}₂₀₁₆ = 3,6; IF^{5-yr}₂₀₂₂ = 5,1.

MEiN = 100 pts.

Total citations = Scopus (7); Web of Science (6); Google Scholar (7).

Total citations without self-citations = Scopus (6); Web of Science (6); Google Scholar (6).

4. “A stereoselective synthesis of (E)-or (Z)- β -arylvinyllalides via a borylative coupling/halodeborylation protocol”,

Jakub Szyling, **Adrian Franczyk**, Piotr Pawluć, Bogdan Marciniak, Jędrzej Walkowiak*

Organic & Biomolecular Chemistry **2017**, 15(15), 3207-3215 (DOI: 10.1039/C7OB00054E).

The article distinguished by a graphic on the inside cover of the journal.

IF₂₀₁₇ = 3,4; IF₂₀₂₂ = 3,2; IF^{5-yr}₂₀₁₇ = 3,1; IF^{5-yr}₂₀₂₂ = 3,0.

MEiN = 100 pts.

Total citations = Scopus (17); Web of Science (17); Google Scholar (19).

Total citations without self-citations = Scopus (11); Web of Science (11); Google Scholar (12).

5. “Dynamic heterogeneity in random copolymers of polymethacrylates bearing different polyhedral oligomeric silsesquioxane moieties (POSS)”,

Stelios Alexandris, **Adrian Franczyk**, George Papamokos, Bogdan Marciniak, Robert Graf, Krzysztof Matyjaszewski, Kaloian Koynov, George Floudas*,

Macromolecules **2017**, 50(10), 4043-4053 (DOI: 10.1021/acs.macromol.7b00660).

IF₂₀₁₇ = 5,9; IF₂₀₂₂ = 5,5; IF^{5-yr}₂₀₁₇ = 5,8; IF^{5-yr}₂₀₂₂ = 5,7.

MEiN = 140 pts.

Total citations = Scopus (10); Web of Science (9); Google Scholar (9).

Total citations without self-citations = Scopus (8); Web of Science (7); Google Scholar (7).

6. “A highly selective synthesis of new alkenylsilsesquioxanes by hydrosilylation of alkyne”,

Adrian Franczyk, Kinga Stefanowska, Michał Dutkiewicz, Dawid Frąckowiak, Bogdan Marciniak*,

Dalton Transactions **2017**, 46, 158-164(6) (DOI: 10.1039/C6DT04190F).

IF₂₀₁₇ = 4,1; IF₂₀₂₂ = 4,0; IF^{5-yr}₂₀₁₇ = 3,9; IF^{5-yr}₂₀₂₂ = 3,7.

MEiN = 140 pts.

Total citations = Scopus (24); Web of Science (24); Google Scholar (28).

Total citations without self-citations = Scopus (11); Web of Science (11); Google Scholar (14).

7. “*Synthesis and catalytic properties for olefin polymerization of new vanadium complexes containing silsesquioxane ligands with different denticity*”,

Monika Pochwala, Marzena Białek*, **Adrian Franczyk**, Krystyna Czaja, Bogdan Marciniak,

Polymer International **2017**, 66(6), 960-967 (DOI: 10.1002/pi.5345).

IF₂₀₁₇ = 2,3; IF₂₀₂₂ = 3,2; IF^{5-yr}₂₀₁₇ = 2,3; IF^{5-yr}₂₀₂₂ = 2,8.

MEiN = 70 pts.

Total citations = Scopus (11); Web of Science (8); Google Scholar (12).

Total citations without self-citations = Scopus (11); Web of Science (8); Google Scholar (12).

8. “*An effective hydrosilylation of alkynes in supercritical CO₂ – a green approach to alkenyl silanes*”,

Kinga Stefanowska, **Adrian Franczyk**, Jakub Szyling, Katarzyna Salamon, Bogdan Marciniak, Jędrzej Walkowiak*,

Journal of Catalysis, **2017**, 356, 206-213 (DOI: 10.1016/j.jcat.2017.10.005).

IF₂₀₁₇ = 6,7; IF₂₀₂₂ = 7,3; IF^{5-yr}₂₀₁₇ = 7,5; IF^{5-yr}₂₀₂₂ = 7,7.

MEiN = 140 pts.

Total citations = Scopus (23); Web of Science (22); Google Scholar (25).

Total citations without self-citations = Scopus (6); Web of Science (6); Google Scholar (8).

9. “*Synthesis of new monofunctionalized silsesquioxanes (RSiMe₂O)(i-Bu)₇Si₈O₁₂ via alkene hydrosilylation*”,

Marcin Walczak, **Adrian Franczyk**, Bogdan Marciniak*,

Chemistry - an Asian Journal **2018**, 13, 181-186 (DOI: 10.1002/asia.201701569).

IF₂₀₁₈ = 3,7; IF₂₀₂₂ = 4,1; IF^{5-yr}₂₀₁₈ = 3,5; IF^{5-yr}₂₀₂₂ = 3,8.

MEiN = 100 pts.

Total citations = Scopus (22); Web of Science (21); Google Scholar (23).

Total citations without self-citations = Scopus (15); Web of Science (14); Google Scholar (16).

10. “*An effective catalytic hydroboration of alkynes in supercritical CO₂ under repetitive batch mode*”,

Jakub Szyling, **Adrian Franczyk**, Kinga Stefanowska, Mateusz Klarek, Hieronim Maciejewski, Jędrzej Walkowiak*,

ChemCatChem **2018**, *10*, 531-539 (DOI: 10.1002/cctc.201701318).

The article is distinguished by a graphic placed on the outer back cover of the journal.

IF₂₀₁₈ = 4,5; IF₂₀₂₂ = 4,5; IF^{5-yr}₂₀₁₈ = 4,7; IF^{5-yr}₂₀₂₂ = 4,6.

MEiN = 100 pts.

Total citations = Scopus (19); Web of Science (19); Google Scholar (21).

Total citations without self-citations = Scopus (10); Web of Science (10); Google Scholar (13).

11. “*Hydrosilylation of alkenes and alkynes with silsesquioxane (HSiMe₂O)(i-Bu)₇Si₈O₁₂ catalyzed by Pt supported on a styrene-divinylbenzene copolymer*”,

Marcin Walczak, Kinga Stefanowska, **Adrian Franczyk***, Jędrzej Walkowiak, Agata Wawrzyńczak, Bogdan Marciniak*,

Journal of Catalysis **2018**, *367*, 1-6 (DOI: 10.1016/j.jcat.2018.08.012).

IF₂₀₁₈ = 7,7; IF₂₀₂₂ = 7,3; IF^{5-yr}₂₀₁₈ = 7,9; IF^{5-yr}₂₀₂₂ = 7,7.

MEiN = 140 pts.

Total citations = Scopus (23); Web of Science (22); Google Scholar (26).

Total citations without self-citations = Scopus (17); Web of Science (17); Google Scholar (20).

12. “*Synthesis of monofunctionalized POSS through hydrosilylation*”,

Marcin Walczak, Rafał Januszewski, **Adrian Franczyk**, Bogdan Marciniak*

Journal of Organometallic Chemistry **2018**, *872*, 73-78

(DOI: 10.1016/j.jorganchem.2018.07.021).

IF₂₀₁₈ = 2,0; IF₂₀₂₂ = 2,3; IF^{5-yr}₂₀₁₈ = 2,0; IF^{5-yr}₂₀₂₂ = 1,9.

MEiN = 70 pts.

Total citations = Scopus (18); Web of Science (16); Google Scholar (22).

Total citations without self-citations = Scopus (16); Web of Science (14); Google Scholar (20).

13. Publication marked in the series with the symbol **H7**.

“Selective hydrosilylation of alkynes with octaspherosilicate (HSiMe₂O)₈Si₈O₁₂”,

Kinga Stefanowska, **Adrian Franczyk***, Jakub Szyling, Mikołaj Pyziak, Piotr Pawluć, Jędrzej Walkowiak*,

Chemistry - An Asian Journal, **2018**, 13(16), 2101-2108

(DOI: 10.1002/asia.201800726).

IF₂₀₁₈ = 3,7; IF₂₀₂₂ = 4,1; IF^{5-yr}₂₀₁₈ = 3,5; IF^{5-yr}₂₀₂₂ = 3,8.

MEiN = 100 pts.

Total citations = Scopus (21); Web of Science (20); Google Scholar (21).

Total citations without self-citations = Scopus (9); Web of Science (9); Google Scholar (9).

14. *“A recyclable Ru(CO)Cl(H)(PPh₃)₃/PEG catalytic system for regio- and stereoselective hydroboration of terminal and internal alkynes”*,

Jakub Szyling, **Adrian Franczyk**, Kinga Stefanowska, Jędrzej Walkowiak*,

Advanced Synthesis and Catalysis **2018**, 360(15), 2966-2974

(DOI: 10.1002/adsc.201800409).

IF₂₀₁₈ = 5,4; IF₂₀₂₂ = 5,4; IF^{5-yr}₂₀₁₈ = 5,2; IF^{5-yr}₂₀₂₂ = 4,7.

MEiN = 140 pts.

Total citations = Scopus (16); Web of Science (14); Google Scholar (17).

Total citations without self-citations = Scopus (10); Web of Science (8); Google Scholar (12).

15. *“Recyclable hydroboration of alkynes using RuH@IL and RuH@IL/scCO₂ catalytic systems”*,

Jakub Szyling, **Adrian Franczyk**, Kinga Stefanowska, Hieronim Maciejewski, Jędrzej Walkowiak*,

ACS Sustainable Chemistry and Engineering **2018**, 6(8), 10980-10988

(DOI: 10.1021/acssuschemeng.8b02388).

IF₂₀₁₈ = 7,0; IF₂₀₂₂ = 8,4; IF^{5-yr}₂₀₁₈ = 7,2; IF^{5-yr}₂₀₂₂ = 8,7.

MEiN = 140 pts.

Total citations = Scopus (17); Web of Science (15); Google Scholar (5).

Total citations without self-citations = Scopus (11); Web of Science (9); Google Scholar (4).

16. “*Synthesis of bifunctional silsesquioxanes (RSiMe₂O)_{~4}(R'SiMe₂O)_{~4}Si₈O₁₂ via hydrosilylation of alkenes*”,

Marcin Walczak, **Adrian Franczyk***, Michał Dutkiewicz, Bogdan Marciniec*, *Organometallics* **2019**, 38, 3018-3024 (DOI: 10.1021/acs.organomet.9b00350).

IF₂₀₁₉ = 3,8; IF₂₀₂₂ = 2,8; IF^{5-yr}₂₀₁₉ = 3,3; IF^{5-yr}₂₀₂₂ = 2,9.

MEiN = 100 pts.

Total citations = Scopus (17); Web of Science (17); Google Scholar (19).

Total citations without self-citations = Scopus (15); Web of Science (15); Google Scholar (17).

17. Publication marked in the series with the symbol **H5**.

“*Synthesis of functional 3-buten-1-yne and 1,3-butadienes with silsesquioxane moiety via hydrosilylation of 1,3-diynes*”,

Kinga Stefanowska, **Adrian Franczyk***, Jakub Szyling, Jędrzej Walkowiak* *ChemCatChem*, **2019**, 11, 4848-4853 (DOI: 10.1002/cctc.201901082).

IF₂₀₁₉ = 4.8; IF₂₀₂₂ = 4.5; IF^{5-yr}₂₀₁₉ = 4.8; IF^{5-yr}₂₀₂₂ = 4.6.

MEiN = 100 pts.

Total citations = Scopus (15); Web of Science (14); Google Scholar (18).

Total citations without self-citations = Scopus (7); Web of Science (7); Google Scholar (8).

18. “*PEG-mediated recyclable borylative coupling of vinyl boronates with olefins*”,

Jakub Szyling, Jędrzej Walkowiak*, Tomasz Sokolnicki, **Adrian Franczyk**, Kinga Stefanowska, Mateusz Klarek,

Journal of Catalysis **2019**, 376, 219-227 (DOI: 10.1016/j.jcat.2019.07.009).

IF₂₀₁₉ = 7,9; IF₂₀₂₂ = 7,3; IF^{5-yr}₂₀₁₉ = 7,9; IF^{5-yr}₂₀₂₂ = 7,7.

MEiN = 140 pts.

Total citations = Scopus (7); Web of Science (6); Google Scholar (9).

Total citations without self-citations = Scopus (4); Web of Science (3); Google Scholar (6).

- 19.** “*Pt-catalyzed hydrosilylation of 1,3-diyne with triorganosilanes: regio- and stereoselective synthesis of mono- or bis-silylated adducts*”,
Jędrzej Walkowiak*, Katarzyna Salamon, **Adrian Franczyk**, Kinga Stefanowska, Jakub Szyling, Ireneusz Kownacki,
Journal of Organic Chemistry **2019**, 84(4), 2358-2365
(DOI: 10.1021/acs.joc.8b03143).
IF₂₀₁₉ = 4,3; IF₂₀₂₂ = 3,6; IF^{5-yr}₂₀₁₉ = 4,0; IF^{5-yr}₂₀₂₂ = 3,4.
MEiN = 140 pts.
Total citations = Scopus (30); Web of Science (27); Google Scholar (33).
Total citations without self-citations = Scopus (19); Web of Science (17); Google Scholar (20).
- 20.** “*A facile approach for the synthesis of novel silsesquioxanes with mixed functional groups*”,
Marcin Walczak, Rafał Januszewski, Michał Dutkiewicz, **Adrian Franczyk**, Bogdan Marciniak*,
New Journal of Chemistry **2019**, 43(46), 18141-18145 (DOI: 10.1039/C9NJ04488D).
IF₂₀₁₉ = 3.3; IF₂₀₂₂ = 3.3; IF^{5-yr}₂₀₁₉ = 3.1; IF^{5-yr}₂₀₂₂ = 3.2.
MEiN = 70 pts.
Total citations = Scopus (13); Web of Science (13); Google Scholar (14).
Total citations without self-citations = Scopus (12); Web of Science (12); Google Scholar (13).
- 21.** “*Ru-catalyzed repetitive batch borylative coupling of olefins in ionic liquids or ionic liquids/scCO₂ systems*”,
Jakub Szyling*, Tomasz Sokolnicki, **Adrian Franczyk**, Jędrzej Walkowiak*,
Catalysts, **2020**, 10(7), 1-16 (DOI: 10.3390/catal10070762).
IF₂₀₂₀ = 4.1; IF₂₀₂₂ = 3.9; IF^{5-yr}₂₀₂₀ = 4.4; IF^{5-yr}₂₀₂₂ = 4.2.
MEiN = 100 pts.
Total citations = Scopus (3); Web of Science (3); Google Scholar (4).
Total citations without self-citations = Scopus (2); Web of Science (2); Google Scholar (3).

22. “Pt(0)-Catalysed synthesis of new bifunctional silanes”,

Rafał Januszewski*, Michał Dutkiewicz, **Adrian Franczyk**, Ireneusz Kownacki*,
Dalton Transactions, **2020**, 49(23), 7697–7700 (DOI: 10.1039/D0DT01668C).

IF₂₀₂₀ = 4.4; IF₂₀₂₂ = 4.0; IF^{5-yr}₂₀₂₀ = 4.0; IF^{5-yr}₂₀₂₂ = 3.7.

MEiN = 140 pts.

Total citations = Scopus (3); Web of Science (3); Google Scholar (3).

Total citations without self-citations = Scopus (3); Web of Science (3);
Google Scholar (3).

23. “Regio- and stereoselective synthesis of enynyl boronates via ruthenium-catalyzed hydroboration of 1,4-diaryl-substituted 1,3-diyne”,

Tomasz Sokolnicki, Jakub Szyling, **Adrian Franczyk**, Jędrzej Walkowiak*,
Advanced Synthesis and Catalysis **2020**, 362(1), 177-183
(DOI: 10.1002/adsc.201900939), open access.

IF₂₀₂₀ = 5,8; IF₂₀₂₂ = 5,4; IF^{5-yr}₂₀₂₀ = 5,1; IF^{5-yr}₂₀₂₂ = 4,7.

MEiN = 140 pts.

Total citations = Scopus (12); Web of Science (13); Google Scholar (14).

Total citations without self-citations = Scopus (9); Web of Science (10);
Google Scholar (11).

24. Publication marked in the series with the symbol **H6**.

“Alkenyl-functionalized open-cage silsesquioxanes (RSiMe₂O)₃R'₇Si₇O₉: a novel class of building nanoblocks”,

Kinga Stefanowska, Jakub Szyling, Jędrzej Walkowiak, **Adrian Franczyk***,
Inorganic Chemistry, **2021**, 60(15), 11006–11013

(DOI: 10.1021/acs.inorgchem.1c00689), open access.

Article highlighted with graphics placed on the supplementary journal cover of *Inorganic Chemistry*.

IF₂₀₂₁ = 5,4; IF₂₀₂₂ = 4,6; IF^{5-yr}₂₀₂₁ = 5,0; IF^{5-yr}₂₀₂₂ = 4,4.

MEiN = 140 pts.

Total citations = Scopus (12); Web of Science (11); Google Scholar (14).

Total citations without self-citations = Scopus (5); Web of Science (5);
Google Scholar (6).

25. Publication marked in the series with the symbol **H3**.

“Synthesis of bifunctional disiloxanes: via subsequent hydrosilylation of alkenes and alkynes”,

Jakub Szyling, Rafał Januszewski, Kamila Jankowska, Jędrzej Walkowiak, Ireneusz Kownacki, **Adrian Franczyk***,

Chemical Communications, **2021**, 57(37), 4504–4507 (DOI: 10.1039/D1CC01253C), open access.

Article featured with graphic placed on the outside back cover of *Chemical Communications*.

IF₂₀₂₁ = 6.0; IF₂₀₂₂ = 4.9; IF^{5-yr}₂₀₂₁ = 5.9; IF^{5-yr}₂₀₂₂ = 4.9.

MEiN = 200 pts.

Total citations = Scopus (12); Web of Science (11); Google Scholar (12).

Total citations without self-citations = Scopus (7); Web of Science (6); Google Scholar (7).

26. *“Synthesis of bio-based silane coupling agents by the modification of eugenol”*,

Tomasz Sokolnicki, **Adrian Franczyk**, Bartłomiej Janowski, Jędrzej Walkowiak*,

Advanced Synthesis and Catalysis **2021**, 363(24), 5493-5500 (DOI: 10.1002/adsc.202101178), open access.

IF₂₀₂₁ = 6,0; IF₂₀₂₂ = 5,4; IF^{5-yr}₂₀₂₁ = 5,3; IF^{5-yr}₂₀₂₂ = 4,7.

MEiN = 140 pts.

Total citations = Scopus (5); Web of Science (5); Google Scholar (6).

Total citations without self-citations = Scopus (2); Web of Science (2); Google Scholar (3).

27. *“Summary of laboratory tests on drying of cellulose insulation of distribution transformers with the use of synthetic ester and methods of treatment of the ester [Podsumowanie badań laboratoryjnych dotyczących suszenia izolacji celulozowej transformatorów rozdzielczych z wykorzystaniem estru syntetycznego oraz metod uzdatniania tego estru]”*,

Hubert Morańda*, Piotr Przybyłek, Hanna Mościcka-Grzesiak, Krzysztof Walczak, Jarosław Gielniak, Wojciech Sikorski, Krzysztof Siodła, Ivo Pinkiewicz,

Mateusz Cybulski, Bartosz Orwat, Jakub Szyling, Michał Dutkiewicz, Ireneusz Kownacki, Jędrzej Walkowiak, **Adrian Franczyk**, Bogdan Marciniak, *Przegląd Elektrotechniczny*, **2021**, 97(12), 220-225.

IF₂₀₂₁ = without IF; IF₂₀₂₂ = without IF; IF^{5-yr}₂₀₂₁ = without IF; IF^{5-yr}₂₀₂₂ = without IF.

MEiN = 70 pts.

Total citations = Scopus (0); Web of Science (0); Google Scholar (0).

Total citations without self-citations = Scopus (0); Web of Science (0); Google Scholar (0).

28. Publication marked in the series with the symbol **H2**.

“Directed cis-hydrosilylation of borylalkynes to borylsilylalkenes”,

Kinga Stefanowska, Tomasz Sokolnicki, Jędrzej Walkowiak, Agnieszka Czapik, **Adrian Franczyk***,

Chemical Communications, **2022**, 58(86), 12046–12049

(DOI: 10.1039/D2CC04318A).

Article featured with graphic placed on the outside front cover of *Chemical Communications*.

IF₂₀₂₁ = 6,0; IF₂₀₂₂ = 4,9; IF^{5-yr}₂₀₂₁ = 5,9; IF^{5-yr}₂₀₂₂ = 4,9.

MEiN = 200 pts.

Total citations = Scopus (6); Web of Science (5); Google Scholar (6).

Total citations without self-citations = Scopus (2); Web of Science (2); Google Scholar (2).

29. *“Pt-catalyzed selective diboration of symmetrical and unsymmetrical 1,3-diyne”*,

Jakub Szyling*, Aleksandra Szymańska, **Adrian Franczyk**, Jędrzej Walkowiak*

Journal of Organic Chemistry **2022**, 87(16), 10651-10663

(DOI: 10.1021/acs.joc.2c00844).

IF₂₀₂₂ = 3,6; IF^{5-yr}₂₀₂₂ = 3,4.

MEiN = 140 pts.

Total citations = Scopus (3); Web of Science (3); Google Scholar (4).

Total citations without self-citations = Scopus (2); Web of Science (2); Google Scholar (3).

30. *“Hydroelementation of diyenes”*,

Jędrzej Walkowiak*, Jakub Szyling, **Adrian Franczyk**, Rebecca L. Melen*,
Chemical Society Reviews **2022**, 51(3), 869-994 (DOI: 10.1039/D1CS00485A),
open access.

Article featured with graphic placed on the front cover of the journal.

IF₂₀₂₂ = 46; IF^{5-yr}₂₀₂₂ = 51.

MEiN = 200 pts.

Total citations = Scopus (24); Web of Science (25); Google Scholar (25).

Total citations without self-citations = Scopus (19); Web of Science (21);
Google Scholar (21).

31. *“Hydrosilylation of carbonyl compounds catalyzed by iridium(I) complexes with (-)-menthol-based phosphorus(III) ligands”*

Konrad Stęsik, **Adrian Franczyk**, Agnieszka Czapik, Ireneusz Kownacki,
Jędrzej Walkowiak*,

ChemCatChem, **2023**, 15, e202201510 (DOI: 10.1002/cctc.202201510)

IF₂₀₂₂ = 4,5; IF^{5-yr}₂₀₂₂ = 4,6.

MEiN = 100 pts.

Total citations = Scopus (2); Web of Science (1); Google Scholar (0).

Total citations without self-citations = Scopus (2); Web of Science (1);
Google Scholar (0).

32. Publication marked in the series with the symbol **H4**.

“Synthesis of unsymmetrically and symmetrically functionalized disiloxanes via subsequent hydrosilylation of C≡C bonds”,

Jakub Szyling, Jędrzej Walkowiak, Agnieszka Czapik, **Adrian Franczyk***,

Scientific Reports, **2023**, 13, 10244 (DOI: 10.1038/s41598-023-37375-8).

IF₂₀₂₂ = 4,6; IF^{5-yr}₂₀₂₂ = 4,9.

MEiN = 140 pts.

Total citations = Scopus (0); Web of Science (0); Google Scholar (0).

Total citations without self-citations = Scopus (0); Web of Science (0);
Google Scholar (0).

- 33.** “Coupling agents with 2,4,6,8-tetramethylcyclotetrasiloxane core - synthesis and application in styrene-butadiene rubber production”,
Tomasz Sokolnicki, **Adrian Franczyk**, Radosław Kozak, Jędrzej Walkowiak*,
Inorganic Chemistry Frontiers **2023**, (DOI: 10.1039/D3QI00619K).
IF₂₀₂₂= 7,0; IF^{5-yr}₂₀₂₂= 6,3.
MEiN = 140 pts.
Total citations = Scopus (0); Web of Science (0); Google Scholar (0).
Total citations without self-citations = Scopus (0); Web of Science (0);
Google Scholar (0).
- 34.** Publication marked in the series with the symbol **H8**.
“Functionalization of octaspherosilicate (HSiMe₂O)₈Si₈O₁₂ with buta-1,3-diyne
by hydrosilylation”,
Kinga Stefanowska, Jakub Nagórny, Jakub Szyling, **Adrian Franczyk***,
Scientific Reports, **2023**, 13, 14314 (DOI: 10.1038/s41598-023-41461-2), open access.
IF₂₀₂₂= 4,6; IF^{5-yr}₂₀₂₂= 4,9.
MEiN = 140 pts.
Total citations = Scopus (0); Web of Science (0); Google Scholar (0).
Total citations without self-citations = Scopus (0); Web of Science (0);
Google Scholar (0).

2.5. Information on presentations given at national or international scientific conferences, including a list of lectures delivered upon invitation and plenary lectures

2.5.1. Plenary lectures, international scientific conferences, presenting author

A) Before Ph.D.:

None.

B) After Ph.D.

1. “Catalytic hydrosilylation of unsaturated carbon-carbon bonds”,

Adrian Franczyk, Kinga Stefanowska, Jakub Szyling, Tomasz Sokolnicki,
Jędrzej Walkowiak,
3rd Advances in Green Chemistry Conference,
Poznan, Poland,
26-30.09.2022.

2.5.2. Lectures, international and domestic scientific conferences, as presenting author

A) Before Ph.D.:

International:

1. „*Synthesis and catalytic activity of Rh(I) complexes with cubic silsesquioxanes*”,
Adrian Franczyk, Ireneusz Kownacki, Karol Szubert, Maciej Kubicki,
Bogdan Marciniak,
XII Regional Seminar of PhD-Students on Organometallic and Coordination Chemistry,
Szklarska Poręba, Poland,
03-07.10.2009.
2. “*Synthesis of mono- and difunctionalized silsesquioxanes*”,
Adrian Franczyk, Justyna Szudkowska, Bogdan Marciniak,
Sixteenth International Symposium On Silicon Chemistry (ISOS XVI),
Hamilton, Ontario, Canada,
14-18.08.2011.

Poster communication with a 5-minute oral presentation of its content.

Featured communication.

3. “*The synthesis of novel hybrid polymers based on polyhedral oligomeric silsesquioxanes (POSS) monomers using atom transfer radical polymerization*”,
Adrian Franczyk, Krzysztof Matyjaszewski, Bogdan Marciniak,
MoDeSt Workshop 2013,
Warsaw, Poland
8-10.09.2013.

Domestic:

None.

B) After Ph.D.:

International:

1. *“Poly(methacrylate)s with POSS moieties – synthesis and characterization”*,
Adrian Franczyk, Jakub Szyling, Dominika Rapacz,
4th International Symposium on Silsesquioxanes-based Functional Materials (SFM2020),
Busan, South Korea,
4-6.11.2020.
On-line oral presentation.
2. *“Synthesis and characterization of ultra-high molecular weight poly(methacrylate)s with POSS moieties”*,
Adrian Franczyk, Jakub Szyling, Kinga Stefanowska, Tomasz Sokolnicki,
POLY-CHAR 2020 – International Polymer Characterization Forum,
VeniceVenice, Italy,
12-14.04. 2021.
On-line oral presentation.
3. *“Synthesis of POSS-MAs and their polymerization by FRP and ATRP methods”*,
Adrian Franczyk, Jakub Szyling, Dominika Rapacz,
The 48th World Polymer Congress (IUPAC-MACRO2020+),
Seoul, South Korea,
17-20.05.2021,
On-line oral presentation.
4. *“Synthesis and characterization of novel bifunctional 1,1,3,3-tetramethyldisiloxane derivatives”*,
Adrian Franczyk, Jakub Szyling, Jędrzej Walkowiak,

International Symposium on Synthesis and Catalysis 2021,
Evora, Portugal,
31.08.-03.09.2021,
On-line oral presentation.

5. “*Synthesis of new organosilicon derivatives for coating applications*”,
Adrian Franczyk, Jakub Szyling, Kinga Stefanowska, Tomasz Sokolnicki,
Jędrzej Walkowiak,
European Technical Coatings Congress (ETCC 2022),
Cracow, Poland,
12-14.07.2022.
6. “*Synthesis and characterization of poly(POSSMA)s*”,
Adrian Franczyk, Dominika Rapacz,
49th World Polymer Congress (IUPAC MACRO 2022),
Winnipeg, Canada,
17-21.07.2022,
On-line oral presentation.
7. “*Hybrid poly(methacrylate)s containing polyhedral oligosilsesquioxane (POSS) moieties*”,
Adrian Franczyk,
International Soft Matter Conference 2022 (ISMC 2022),
Poznan, Poland,
19-23.09.2022.

Domestic:

8. “*Metalasilsesquioxanes as catalysts for the polymerization of olefins*”,
Adrian Franczyk, Kinga Stefanowska, Monika Pochwała, Krystyna Czaja,
Marzena Białek, Bogdan Marciniak,
II National conference Young Scientists in Poland - Research and Development,
Poznan, Poland,
21.11.2015.

9. *“Polyhedral oligosilsesquioxanes $RR'_7Si_8O_{12}$ - synthesis, characterization and application in polymerization processes”*,

Adrian Franczyk, Kinga Stefanowska, Jakub Szyling, Daria Kasprzyk, Jędrzej Walkowiak,
62th Scientific Meeting of the Polish Chemical Society,
Warsaw, Poland,
02.09-06.09.2019.

10. *“Preparation of alkenylsilanes and silsesquioxanes by hydrosilylation of $C\equiv C$ bonds”*,

Adrian Franczyk, Kinga Stefanowska, Jakub Szyling, Jędrzej Walkowiak,
63th Scientific Meeting of the Polish Chemical Society,
Łódź, Poland,
13.09-16.09.2021,
Sectional lecture,
On-line oral presentation.

- 2.5.3. Oral presentations, international and domestic scientific conferences,
as a co-author

A) Before Ph.D.:

International:

None.

Domestic:

1. *“New catalytic methods for the synthesis of functionalized alkanes”*,

Piotr Pawluć, Grzegorz Hreczycho, Justyna Szudkowska, **Adrian Franczyk**,
Bogdan Marciniak,
42th National Catalytic Colloquium,
Cracow, Poland,
15-17.03.2010.

2. *“New catalytic coupling reactions in the synthesis of organoboron and silicon compounds”*,

Jędrzej Walkowiak, **Adrian Franczyk**, Bogdan Marciniak,
VII National Symposium of the Scientific Association of Chemists,
Jeziory, Poland,
25-28.03.2010.

B) After Ph.D.:

International:

1. *“Selective synthesis of new alkenylsubstituted silsesquioxanes and spherosilicates by hydrosilylation of alkynes in conventional or non-conventional media”*,

Kinga Stefanowska, Jakub Szyling, **Adrian Franczyk**, Bogdan Marciniak,
Jędrzej Walkowiak,
XVI International Seminar of PhD Students on Organometallic and Coordination
Chemistry,
Lichtenfels, Germany,
17-21.10.2015.

2. *„Supercritical CO₂ as an alternative medium for the synthesis of alkenylsilanes and silsesquioxanes”*,

Kinga Stefanowska, Jakub Szyling, **Adrian Franczyk**, Bogdan Marciniak,
Jędrzej Walkowiak,
17th International Seminar of PhD Students on Organometallic and Coordination
Chemistry,
Kraskov, Czech Republic,
2-6.04.2017.

3. *“Green and efficient synthetic protocols to a alkenylboronates via hydroboration of alkynes”*,

Jakub Szyling, Kinga Stefanowska, **Adrian Franczyk**, Jędrzej Walkowiak,
17th International Seminar of PhD Students on Organometallic and Coordination
Chemistry,

Kraskov, Czech Republic,
2-6.04.2017.

4. *“Supercritical CO₂ as an alternative medium for the synthesis of alkenyl silanes”*,
Kinga Stefanowska, Jakub Szyling, Katarzyna Salamon, **Adrian Franczyk**,
Jędrzej Walkowiak
The 2nd Advances in Green Chemistry Conference,
AGChem 2018,
Poznan, Poland,
16-19.04.2018.
5. *“Nanometric alkenyl-substituted silsesquioxanes and spherosilicates – synthesis and characterization”*,
Kinga Stefanowska, Jakub Szyling, **Adrian Franczyk**, Piotr Pawluć,
Jędrzej Walkowiak,
XI International School on Organometallics Chemistry Marcial Moreno Mañas,
Oviedo, Spain,
6-9.06.2018.
6. *“Synthesis of alkenyl-substituted silsesquioxanes by hydrosilylation of C≡C bond in conventional and non-conventional solvents”*,
Kinga Stefanowska, Jakub Szyling, Katarzyna Salamon, **Adrian Franczyk**,
Jędrzej Walkowiak,
XII Copernican International Young Scientists Conference,
Torun, Poland,
28-19.06.2018.
7. *“Poly(ethylene glycols) and ionic liquids as an alternative media for borylative coupling of vinylboronates with olefins”*,
Tomasz Sokolnicki, Mateusz Klarek, Jakub Szyling, Kinga Stefanowska,
Adrian Franczyk, Jędrzej Walkowiak,
2nd Advances in Green Chemistry Conference,
Poznan, Poland,
16-19.04.2018.

8. *"Alkynes hydroboration in poly(ethylene glycols) – green approach to alkenyl boronates"*,
Jakub Szyling, Mateusz Klarek, Kinga Stefanowska, **Adrian Franczyk**,
Jędrzej Walkowiak,
2nd AGChem – Advances in Green Chemistry,
Poznan, Poland,
16-19.04.2018.
9. *"Regio- and stereoselective synthesis of new potassium enynyl trifluoroborates via catalytic monohydroboration of 1,3-diyne"*,
Tomasz Sokolnicki, Jakub Szyling, Kinga Stefanowska, **Adrian Franczyk**,
Jędrzej Walkowiak,
International Symposium on Synthesis and Catalysis 2019 (ISySyCat 2019),
Évora, Portugal,
03-06.09.2019.
10. *"Synthesis of alkenylsilanes and silsesquioxanes via catalytic hydrosilylation reactions in conventional organic solvents and supercritical CO₂"*,
Kinga Stefanowska, **Adrian Franczyk**, Jędrzej Walkowiak,
Swiss Summer School 2021: Catalysis and Sustainable Chemistry,
Les Diablerets, Switzerland,
5-9.09.2021.
11. *"POSS-MAs and their application in the preparation of hybrid (co)polymers"*,
Dominika Rapacz, **Adrian Franczyk**,
International Symposium on Synthesis and Catalysis 2021,
Evora, Portugal,
31.08.-03.09.2021.
On-line oral presentation.
12. *"Synthesis of alkenyl-functionalized open-cage silsesquioxanes – a novel class of building nanoblocks"*,
Kinga Stefanowska, Jakub Szyling, Jędrzej Walkowiak, **Adrian Franczyk**,

International Symposium on Synthesis and Catalysis,
Evora, Portugal,
31.08-3.09.2021.

13. *“Catalytic hydrosilylation of unsaturated carbon-carbon and carbon-oxygen bonds according to Green Chemistry rules”*,

Konrad Stęsik, Kinga Stefanowska, **Adrian Franczyk**, Jakub Szyling,
Jędrzej Walkowiak,

International Symposium on Synthesis and Catalysis 2021,
Evora, Portugal,
2021.

14. *“Green solvents mediated synthesis of unsaturated organoboron and silicon compounds via trans-metallation: new tricks for old dogs”*,

Jakub Szyling, Tomasz Sokolnicki, Barbara Krupa, **Adrian Franczyk**,
Jędrzej Walkowiak.

Swiss Summer School 2021 (SCS 2021);
Les Diablerets, Switzerland,
05-09.09.2021.

15. *“Catalytic reduction of carbonyl compounds using new iridium complexes with phosphine and phosphite menthol-based ligands”*,

Konrad Stęsik, **Adrian Franczyk**, Jędrzej Walkowiak,

XXII International Symposium on Homogeneous Catalysis
Lisbon, Portugal,
2022.

16. *“Synthesis of bio-based silane coupling agents by Ir-catalyzed hydrosilylation of eugenol derivatives”*,

Tomasz Sokolnicki, **Adrian Franczyk**, Bartosz Janowski, Jędrzej Walkowiak,

XXII International Symposium on Homogeneous Catalysis (XXII ISHC),
Lisbon, Portugal,
24-29.07.2022.

17. *“Synthesis of bio-based silane coupling agents by Ir-catalyzed hydrosilylation of eugenol derivatives”*,
Tomasz Sokolnicki, **Adrian Franczyk**, Bartłomiej Janowski, Jędrzej Walkowiak,
XXII International Symposium on Homogeneous Catalysis (XXII ISHC),
Lisbon, Portugal,
24-29.07.2022.
18. *“Catalytic reduction of carbonyl compounds by novel iridium(I) complexes bearing (-)-menthol-based phosphorus(III) ligands”*,
Konrad Stęsik, **Adrian Franczyk**, Karolina Klusek Jędrzej Walkowiak,
International Conference On Phosphorus, Boron and Silicon – PBSi 2023
Berlin, Germany,
2023.
19. *“Synthesis of new bifunctional olefins by directed cis-hydrosilylation of borylalkynes”*,
Tomasz Sokolnicki, Kinga Stefanowska, Jędrzej Walkowiak, **Adrian Franczyk**,
XLVII „Attilio Corbella” International Summer School on Organic Synthesis
(ISOS 2023),
Gargnano, Italy,
18-22.06.2023.
20. *„Directed cis-hydrosilylation of borylalkynes to borylsilylalkenes”*,
Kinga Stefanowska, Tomasz Sokolnicki, Jędrzej Walkowiak, **Adrian Franczyk**,
10th European Silicon Days,
Montpellier, France,
10-12.07.2023.

Domestic:

21. *“Selective synthesis of new alkenyl-substituted silsesquioxanes and spherosilicates via the hydrosilylation reaction of alkynes in conventional and unconventional (green) media”*,
Kinga Stefanowska, **Adrian Franczyk**, Bogdan Marciniak, Jędrzej Walkowiak,
II Poznan Symposium of Young Scientists. The new face of Natural Sciences,

Poznan, Poland,
14.11.2015.

- 22.** *"Hydrosilylation and hydroboration reactions in modern, green solvents"*,
Kinga Stefanowska, Jakub Szyling, **Adrian Franczyk**, Jędrzej Walkowiak,
II Poznan Symposium of Young Scientists. The new face of Natural Sciences,
Poznan, Poland,
21.11.2015.
- 23.** *"Supercritical CO₂ in homogeneous catalysis - a green alternative to currently used solvents"*,
Jakub Szyling, Kinga Stefanowska, **Adrian Franczyk**, Jędrzej Walkowiak,
Hieronim Maciejewski,
II Poznan Symposium of Young Scientists. The new face of Natural Sciences,
Poznan, Poland,
21.11.2015.
- 24.** *„Supercritical CO₂ as a "green" reaction medium for hydrosilylation of alkynes with silanes and silsesquioxanes"*,
Kinga Stefanowska, Jakub Szyling, M. Spychała, **Adrian Franczyk**,
Jędrzej Walkowiak,
Green Ideas of the 21st Century,
Poznan, Poland,
30.03.2017.
- 25.** *Hydrosilylation of 1,3-diyne with silsesquioxane (HMe₂SiO)(i-Bu)₇Si₈O₁₂*,
Kinga Stefanowska, Katarzyna Salamon, Jakub Szyling, **Adrian Franczyk**,
Jędrzej Walkowiak,
IV Poznan Young Scientists Symposium,
Poznan, Poland,
18.11.2017.

26. *"A new method for regio- and stereoselective hydroboration of 1,3-diyne"*,
Tomasz Sokolnicki, Jakub Szyling, Magdalena Krawczyk, Weronika Ragin,
Adrian Franczyk, Jędrzej Walkowiak,
III National Symposium on Bioorganic, Organic Chemistry and Biomaterials,
(BioOrg 2019),
Poznan, Poland,
07.12.2019.
27. *Catalytic hydrometalation of conjugated 1,3-diyne - regio- and stereoselective method for the synthesis of mono and bismetalloido(B, Si)substituted enynes or dienes"*,
Jakub Szyling, Kinga Stefanowska, Tomasz Sokolnicki, Mikołaj Przybyła,
Christian Kallesøe, **Adrian Franczyk**, Jędrzej Walkowiak,
62th Scientific Meeting of the Polish Chemical Society,
Warsaw, Poland,
02.09-06.09.2019.
28. *"Sustainable strategies for the synthesis of unsaturated organoboron compounds"*,
Jakub Szyling, Tomasz Sokolnicki, Kinga Stefanowska, **Adrian Franczyk**,
Jędrzej Walkowiak,
III National Symposium on Bioorganic, Organic Chemistry and Biomaterials
(BioOrg 2019),
Poznan, Poland,
07.12.2019.

2.5.4. Poster presentations, international and domestic scientific conferences,
as presenting author

A) Before Ph.D.:

International:

1. *„Synthesis, structure and catalytic activity of Rh(I) and Ir(I) silsesquioxyl complexes"*,
Adrian Franczyk, Ireneusz Kownacki, Maciej Kubicki, Bogdan Marciniak,
26th Poland Germany Colloquy on Organometallic Chemistry,
Bad Alexanderbad, Germany,

26-30.09.2008.

2. *“Silsesquioxanes as nanofillers in polyolefin nanocomposites”*,
Adrian Franczyk, Maria Rosario-Ribeiro, Bogdan Marciniak,
ISPO 10, International workshop on organosilicon polymers,
Lodz, Poland,
27-30.06.2010.

3. *“Synthesis, structure and catalytic activity of the first silsesquioxyl rhodium(I) complexes”*,
Adrian Franczyk, Ireneusz Kownacki, Maciej Kubicki, Karol Szubert,
Bogdan Marciniak,
17th International Symposium on Homogeneous Catalysis,
(ISHC 17),
Poznan, Poland,
4-9.07.2010.

4. *“Mono- and difunctionalized silsesquioxanes as comonomers for nanocomposites synthesis”*,
Adrian Franczyk, Justyna Szudkowska, Bogdan Marciniak,
Frontiers in Silicon Chemistry 2011 – 1st Munich Forum on Functional Materials,
Monachium, Germany,
14-15.04.2011.

5. *“Synthesis of silsesquioxanes with groups capable for polymerization process”*,
Adrian Franczyk, Justyna Szudkowska, Bogdan Marciniak,
Polymers on the Odra River (POLYOR2011),
Opole, Poland,
6-7.07.2011.
Featured presentation.

6. *“Synthesis of mono- and difunctionalized silsesquioxanes”*,
Adrian Franczyk, Justyna Szudkowska, Bogdan Marciniak,
Sixteenth International Symposium On Silicon Chemistry (ISOS XVI),
Hamilton, Ontario, Canada,
14-18.08.2011.

Poster communication with a 5-minute oral presentation of its content.
Featured presentation.

7. *“Mono- and difunctionalized silsesquioxanes – reactive nanofillers for advanced materials”*
Adrian Franczyk, Justyna Szudkowska-Frątczak, Bogdan Marciniak,
Marie Skłodowska-Curie Symposium on the Foundations of Physical Chemistry,
Warsaw, Poland,
18-19.11.2011.

8. *“Polymerization of POSS monomers by ATRP”*,
Adrian Franczyk, Krzysztof Matyjaszewski, Bogdan Marciniak,
XXV International Conference on Organometallic Chemistry (XXV ICOMC),
Lisbon, Portugal,
2-7.09.2012.

9. *“The synthesis of high molecular weight POSS-polymers using ATRP”*,
Adrian Franczyk, Krzysztof Matyjaszewski, Bogdan Marciniak,
9th International Workshop on Silicon-Based Polymers,
Moscow, Russia,
22-25.09.2013.

10. *“Polymerization of POSS-MA by ATRP”*,
Adrian Franczyk, Krzysztof Matyjaszewski, Bogdan Marciniak,
POLYMAT60 International Conference,
Zabrze, Poland,

30.06-1.07.2014.

11. *“Polymerization of POSS-MA by ATRP”*

Adrian Franczyk, Krzysztof Matyjaszewski, Bogdan Marciniak,
The 17th International Symposium on Silicon Chemistry oraz
The 7th European Silicon Days,
Berlin, Germany,
3-8.09.2014.

Domestic:

12. *“Rhodium(I) silsesquioxyl complexes as models of catalysts immobilized on the silica surface”*,

Adrian Franczyk, Ireneusz Kownacki, Karol Szubert, Maciej Kubicki, Bogdan Marciniak
42th National Catalytic Colloquium,
Cracow, Poland,
15-17.0.2010.

13. *“Application of silsesquioxanes in the synthesis of polyolefin nanocomposites”*,

Adrian Franczyk, Maria Rosario-Ribeiro, Bogdan Marciniak,
Polymer Materials – Pomerania Plast 2010,
Kołobrzeg, Poland,
8-11.06.2010.

14. *“Mono- and difunctional silsesquioxanes - as nanofillers and modifiers of composites”*,

Adrian Franczyk, Justyna Szudkowska-Frątczak, Bogdan Marciniak,
The mission of chemo-, bio- and nanotechnology at the Wielkopolska Center for
Advanced Technology: Materials and biomaterials,
Poznan, Poland,
28-29.11.2011.

B) After Ph.D.**International:**

1. *“Polimerization of methacrylates with POSS moieties by ATRP”*,
Adrian Franczyk, Kinga Stefanowska, Krzysztof Matyjaszewski,
Bogdan Marciniak,
9th International Conference on Modification, Degradation and Stabilization
of Polymers,
Cracow, Poland,
4-8.08.2016.
2. *„Poly(methacrylate)s with POSS moieties – synthesis and characterization”*,
Adrian Franczyk, Kinga Stefanowska, Krzysztof Matyjaszewski, Bogdan Marciniak,
8th European Silicon Days,
Poznan, Poland,
28-31.08.2016.
3. *“Poly(POSS-MA)s – synthesis and characterization”*,
Adrian Franczyk, Kinga Stefanowska, Krzysztof Matyjaszewski, Bogdan Marciniak,
Silesian Meetings On Polymers Materials, POLYMAT2016,
Zabrze, Poland,
27-28.06.2016.
4. *“Poly(metacrylate)s, with POSS moieties – synthesis and characterization”*,
Adrian Franczyk, Kinga Stefanowska, Marcin Walczak, Krzysztof Matyjaszewski,
Bogdan Marciniak,
International Symposium on Synthesis and Catalysis,
Evora, Portugal,
5-8.08.2017.

5. *“Nanometer-sized alkenyl-silsesquioxanes and spherosilicates - synthesis and characterization”*,
Adrian Franczyk, Kinga Stefanowska, Jakub Szyling, Katarzyna Salamon, Jędrzej Walkowiak, Bogdan Marciniec,
International Symposium on Synthesis and Catalysis,
Evora, Portugal,
5-8.08.2017.

6. *“Synthesis of hybrid poly(methacrylate)s with polyhedral oligomeric silsesquioxanes moieties”*,
Adrian Franczyk, Jakub Szyling, Dominika Rapacz,
10th International Colloids Conference 2020,
7-9.12.2020.
On-line meeting,
E-poster presented.

Domestic:

7. *“Metalloidsilsesquioxanes – synthesis and catalytic activity in olefin polymerization processes”*,
Adrian Franczyk, Monika Pochwała, Kinga Stefanowska, Krystyna Czaja, Marzena Białek, Bogdan Marciniec,
II Poznan Symposium of Young Scientists. New Face of Natural Sciences,
Poznan, Poland,
14.11.2015.

8. *“Synthesis of alkenyl silsesquioxanes by hydrosilylation of alkynes”*
Adrian Franczyk, Kinga Stefanowska, Jakub Szyling, Jędrzej Walkowiak,
62th Scientific Meeting of the Polish Chemical Society,
Warsaw, Poland,
02-06.09. 2019.

9. *“POSS-MA - synthesis, characterization and application in polymerization processes”*,
Adrian Franczyk, Dominika Rapacz, Jędrzej Walkowiak,

63th Scientific Meeting of the Polish Chemical Society,
Lodz, Poland,
13-16.09.2021.
On-line meeting.
E-poster presentation.

2.5.5. Poster presentations, international and domestic scientific conferences,
as co-author

Selected communications are presented below:

A) Before Ph.D.:

International:

1. *“Highly selective synthesis of (E)-beta-iodoenamides and their applications”*,
Grzegorz Hreczycho, Piotr Pawluć, **Adrian Franczyk**, Jędrzej Walkowiak,
Bogdan Marciniec,
17th International Symposium on Homogeneous Catalysis,
(ISHC 17)
Poznan, Poland,
4-9.07.2010.
2. *“Silicon-assisted synthesis of highly π -conjugated organic compounds”*,
Justyna Szudkowska, **Adrian Franczyk**, Piotr Pawluć, Bogdan Marciniec,
Frontiers in Silicon Chemistry 2011 – 1st Munich Forum on Functional Materials,
Monachium, Germany,
14-15.04.2011.
3. *“Recent applications of the silylative coupling reaction in organic synthesis”*,
Piotr Pawluć, Justyna Szudkowska, **Adrian Franczyk**, Bogdan Marciniec,
OMCOS-16,
Shanghai, China.
24-28.07.2011.

4. *“The application of the silylative coupling in the synthesis of (E)- β -iodoenamides”*,
Maciej Zaranek, Piotr Pawluć, **Adrian Franczyk**, Bogdan Marciniec,
OMCOS-16,
Shanghai, China.
24-28.07.2011.
5. *“New catalytic route to (E)-styryl halides and ketones via sequential reaction of silylative coupling – desilylation”*,
Justyna Szudkowska-Frątczak, Piotr Pawluć, **Adrian Franczyk**, Bogdan Marciniec,
Marie Skłodowska-Curie Symposium on the Foundations of Physical Chemistry,
Warsaw, Poland,
18-19.11.2011.
6. *“Polyurethane/POSS nanohybrid materials - synthesis and characterization”*,
Małgorzata Jancia, Edyta Hebda, **Adrian Franczyk**, Bogdan Marciniec,
Krzysztof Pielichowski,
XI International Conference on Nanostructured Materials,
Rhodes, Greece,
2012.

Domestic:

7. *“Application of the silylating coupling reaction in the synthesis of π -conjugated organic compounds”*,
Justyna Szudkowska-Frątczak, Piotr Pawluć, **Adrian Franczyk**, Bogdan Marciniec,
The mission of chemo-, bio- and nanotechnology at the Wielkopolska Center
for Advanced Technology: materials and biomaterials,
Poznan, Poland,
28-29.11.2011.
8. *“Application of the silylating coupling reaction in the selective synthesis of unsaturated organic compounds”*,
Piotr Pawluć, Justyna Szudkowska-Frątczak, **Adrian Franczyk**, Bogdan Marciniec,

55th PTChem i SITPChem,
Bialystok, Poland,
16-20.09.2012.

9. *“The influence of polyhedral silsesquioxanes on the thermal stability and mechanical properties of polyurethane elastomers”*,
Małgorzata Jancia, Edyta Hebda, Krzysztof Pielichowski, **Adrian Franczyk**,
Bogdan Marciniec,
7th Chemical Technology Congress,
Cracow, Poland, **2012**.

B) After Ph.D.:

International:

1. *“Trans- metallation and hydroboration in traditional and green solvents- synthesis of unsaturated organoboron compounds”*,
Jakub Szyling, Kinga Stefanowska, **Adrian Franczyk**, Jędrzej Walkowiak,
5th Portuguese Young Chemists Meeting and 1st European Young Chemists Meeting,
Guimarães, Portugal,
26-29.04.2016.
2. *„Transition metals complexes with silsesquioxyl ligands- synthesis and application in catalysis in scCO₂”*,
Kinga Stefanowska, Jakub Szyling, **Adrian Franczyk**, Katarzyna Salamon,
Bogdan Marciniec, Jędrzej Walkowiak,
5th Portuguese Young Chemists Meeting and 1st European Young Chemists Meeting,
Guimarães, Portugal,
26-29.04.2016.
3. *“Hydrosilylation in supercritical CO₂ as an effective way for the synthesis of alkenylsilanes and silsesquioxanes”*,
Kinga Stefanowska, Jakub Szyling, **Adrian Franczyk**, Jędrzej Walkowiak,

- 8th Green Solvents Conference,
Kiel, Germany,
16-19.10.2016.
4. *“Synthesis of alkenylsilanes and silsesquioxanes by hydrosilylation of C≡C bond in conventional and non-conventional medias”*,
Kinga Stefanowska, Jakub Szyling, **Adrian Franczyk**, Bogdan Marciniak,
Jędrzej Walkowiak,
8th European Silicon Days,
Poznan, Poland,
28-31.08.2016.
5. *“Hydrometallation of internal and terminal alkynes in traditional and alternative green solvents”*,
Jędrzej Walkowiak, Jakub Szyling, Kinga Stefanowska, **Adrian Franczyk**,
2nd International Conference on Green Chemistry and Sustainable Engineering,
Rome, Italy,
20-22.07.2016.
6. *“Poly(ethylene glycols) and ionic liquids as an alternative media for borylative coupling of vinylboronates with olefins”*,
Tomasz Sokolnicki, Mateusz Klarek, Jakub Szyling, Kinga Stefanowska,
Adrian Franczyk, Jędrzej Walkowiak,
2nd Advances in Green Chemistry Conference,
Poznan, Poland.
16-19.04.2018.
7. *“Catalytic hydroboration of 1,3-diyne in traditional and green solvents”*,
Tomasz Sokolnicki, Mateusz Klarek, Jakub Szyling, Kinga Stefanowska,
Adrian Franczyk, Jędrzej Walkowiak,
2nd Advances in Green Chemistry Conference,
Poznan, Poland,
16-19.04.2018.

8. *"Ruthenium catalyzed hydroboration of 1,3-diyne"*,
Tomasz Sokolnicki, Mateusz Klarek, Jakub Szyling, Kinga Stefanowska,
Adrian Franczyk, Jędrzej Walkowiak,
Chemistry Beyond Nature,
Poznan, Poland,
21-22.06.2018.

9. *"Borylative coupling of olefins in green solvents – an effective method for the synthesis of alkenyl boronates"*,
Tomasz Sokolnicki, Mateusz Klarek, Jakub Szyling, Kinga Stefanowska,
Adrian Franczyk, Jędrzej Walkowiak,
Chemistry Beyond Nature,
Poznan, Poland,
21-22.06.2018.

10. *"The first synthesis of functional 3-buten-1-yne and 1,3-butadienes with silsesquioxanes moiety"*,
Kinga Stefanowska, Jakub Szyling, Katarzyna Salamon, **Adrian Franczyk**,
Jędrzej Walkowiak,
Chemistry Beyond Nature,
Poznan, Poland.,
21-22.06.2018.

11. *"Hydrosilylation of alkynes with silsesquioxanes and spherosilicates in conventional and green solvents"*,
Kinga Stefanowska, Jakub Szyling, Katarzyna Salamon, **Adrian Franczyk**,
Jędrzej Walkowiak.
Chemistry Beyond Nature,
Poznan, Poland,
21-22.06.2018,

12. *"Stereo- and regioselective synthesis of alkenyl boronates in poly(ethylene glycols) under repetitive batch mode"*,

Jakub Szyling, Kinga Stefanowska, Mateusz Klarek, **Adrian Franczyk**,
Jędrzej Walkowiak,
Chemistry Beyond Nature,
Poznan, Poland,
21.06-22.06.2018.

13. *"Catalytic hydroboration of alkynes in ionic liquids as a green alternative for traditional synthesis,*

Jakub Szyling, Kinga Stefanowska, Mateusz Klarek, **Adrian Franczyk**,
Jędrzej Walkowiak,
Chemistry Beyond Nature,
Poznan, Poland,
21.06-22.06.2018.

14. *„Multifunctional silsesquioxane derivatives – synthesis and characterization”,*

Kinga Stefanowska, **Adrian Franczyk**, Piotr Pawluć, Jędrzej Walkowiak,
3rd Edition of International Congress on Catalysis and Chemical Science,
Singapur,
11-13.03.2019.

15. *„Nanometric alkenyl-substituted silsesquioxanes and spherosilicates – synthesis and characterization”,*

Kinga Stefanowska, **Adrian Franczyk**, Jędrzej Walkowiak,
International Symposium of Synthesis and Catalysis ISySyCat,
Evora, Portugal,
3-6.09.2019.

16. *„Synthesis of functional 3-buten-1-ynes and 1,3-butadienes with silsesquioxane moiety via the hydrosilylation of 1,3-diynes”,*

Kinga Stefanowska, **Adrian Franczyk**, Jędrzej Walkowiak,
International Symposium of Synthesis and Catalysis ISySyCat,
Evora, Portugal,
3-6.09.2019.

17. *“Synthesis of alkenyl-functionalized silsesquioxanes and spherosilicates via hydrosilylation of alkynes”*,
Kinga Stefanowska, **Adrian Franczyk**, Jakub Szyling, Jędrzej Walkowiak.
International Conference On Phosphorus, Boron and Silicon – PBSi 2019,
Rome, Italy,
2-4.12.2019.
18. *“Novel stereoselective synthesis of enynyl boronates via catalytic hydroboration of 1,3-diyne”*,
Tomasz Sokolnicki, Jakub Szyling, Kinga Stefanowska, **Adrian Franczyk**,
Jędrzej Walkowiak,
French Conference on Catalysis (FCCat 2019),
Fréjus, France,
3-7.06.2019,
(poster and flash presentation).
19. *“TM-catalyzed hydrometallation of olefins and 1,3-diyne – a straightforward approach to new organoboron- and organosilicon building blocks”*,
Tomasz Sokolnicki, Jakub Szyling, **Adrian Franczyk**, Jędrzej Walkowiak,
Swiss Summer School 2021,
Les Diablerets, Switzerland,
5-9.09.2021.
20. *“Catalytic hydrosilylation of carbon-carbon and carbon-heteroatom unsaturated bonds according to Green Chemistry rules”*,
Konrad Stęśik, Kinga Stefanowska, **Adrian Franczyk**, Jakub Szyling,
Jędrzej Walkowiak,
Swiss Summer School 2021
Les Diablerets, Switzerland,
2021.
21. *“New silane coupling agents based on hydrosilylation of natural eugenol derivatives”*,
Tomasz Sokolnicki, **Adrian Franczyk**, Bartosz Janowski, Jędrzej Walkowiak,
„Attilio Corbella” International Summer School on Organic Synthesis (ISOS 2022),

Gargnano, Italy,
12-16.06.2022.

22. *“Catalytic reduction of ketones using new iridium complexes with phosphine and phosphite ligands”*,
Konrad Stęśik, **Adrian Franczyk**, Jędrzej Walkowiak,
XLVI "A. Corbella" International Summer School on Organic Synthesis,
Gargnano, Italy,
2022.
23. *“Catalytic reduction of ketones in the presence of the new iridium complexes”*,
Konrad Stęśik, **Adrian Franczyk**, Wiktoria Ragin, Jędrzej Walkowiak,
29th International Conference on Organometallic Chemistry,
Prague, Czech Republic,
2022.
24. *“New Silane Coupling Agents Based on Hydrosilylation of Natural Eugenol Derivatives”*,
Tomasz Sokolnicki, **Adrian Franczyk**, Bartłomiej Janowski, Jędrzej Walkowiak,
XLVI „Attilio Corbella” International Summer School on Organic Synthesis (ISOS 2022),
Gargnano, Italy.
12-16.06.2022,
25. *“Synthesis of new bio-based silica modifiers for the tire industry by hydrosilylation of terpenoid derivatives”*,
Tomasz Sokolnicki, **Adrian Franczyk**, Bartłomiej Janowski, Jędrzej Walkowiak,
10th European Silicon Days,
Montpellier, France,
10-12.07.2023.
26. *“TM-catalyzed hydroelementation (E = B or Si) of C-C multiple bonds – synthesis of new building blocks for organic and material chemistry”*,

Tomasz Sokolnicki, **Adrian Franczyk**, Jakub Szyling Bartłomiej Janowski,
Jędrzej Walkowiak,
21st International Symposium on Organometallic Chemistry Directed Toward Organic
Synthesis (OMCOS21),
Vancouver, Canada,
24-28.07.2023.

27. *“Directed cis-hydrosilylation of borylalkynes to borylsilylalkenes”*,
Kinga Stefanowska, Tomasz Sokolnicki, Jędrzej Walkowiak, **Adrian Franczyk**,
International Conference on Phosphorus, Boron and Silicon – PBSi 2023,
Berlin, Germany.
22.03-24.03.2023.

Domestic:

28. *“Highly selective method for the synthesis of unsaturated cage silsesquioxanes and spherosilicates through conventional catalytic transformations and unconventional (green) media”*,
Kinga Stefanowska, **Adrian Franczyk**, Bogdan Marciniak, Jędrzej Walkowiak,
II Domestic Scientific Seminar „Green Ideas of the 21st Century”,
Poznan, Poland,
15.10.2015.
29. *“Rhodium (I) silsesquioxyl complexes as catalysts for processes carried out in supercritical CO₂”*,
Aneta Tracz, Jakub Szyling, Kinga Stefanowska, **Adrian Franczyk**, Bogdan Marciniak,
Jędrzej Walkowiak,
II Poznan Symposium of Young Scientists. The New Face of Natural Sciences,
Poznan, Poland,
14.11.2015.
30. *“The influence of reaction conditions on the course of the hydrosilylation of alkynes with silanes”*,

Kinga Stefanowska, Jakub Szyling, **Adrian Franczyk**, Jędrzej Walkowiak,
X Copernican Doctoral Seminary,
Bachotek, Poland,
21-24.06.2016.

31. *“Synthesis and characterization of Rh(I) complexes as potential catalysts for processes involving organosilicon compounds in conventional and modern reaction media”,*

Katarzyna Salamon, Kinga Stefanowska, **Adrian Franczyk**, Bogdan Marciniak,
Jędrzej Walkowiak,
III Poznan Symposium of Young Scientists,
Poznan, Poland,
5.11.2016.

32. *“Synthesis and characterization of siloxy and silsesquioxo rhodium(I) complexes as potential catalysts in hydrosilylation processes in conventional and alternative media”,*

Katarzyna Salamon, Kinga Stefanowska, **Adrian Franczyk**, Bogdan Marciniak,
Jędrzej Walkowiak,
Green Ideas of the 21st century,
Poznan, Poland,
30.03.2016.

33. *“New methods for the synthesis of unsaturated organoboron compounds by catalytic hydroboration of alkynes in unconventional reaction media”,*

Jakub Szyling, Kinga Stefanowska, Mateusz Klarek, Tomasz Sokolnicki,
Adrian Franczyk, Jędrzej Walkowiak,
II National Seminar on Bioorganic, Organic Chemistry and Biomaterials,
Poznan, Poland,
2.12.2017.

34. *“Nanometric alkenyl-silsesquioxanes and spherosilicates – synthesis and characterization”,*

Kinga Stefanowska, **Adrian Franczyk**, Jakub Szyling, Jędrzej Walkowiak,
Bogdan Marciniak,

II National Seminar on Bioorganic, Organic Chemistry and Biomaterials,
2.12.2017, Poznan.

35. *"Efficient hydrosilylation of alkynes in supercritical CO₂ - a green approach to the synthesis of alkenylsilanes"*,

Katarzyna Salamon, Kinga Stefanowska, **Adrian Franczyk**, Jakub Szyling,
Jędrzej Walkowiak, Bogdan Marciniak,

IV Poznań Symposium of Young Scientists,

Poznan, Poland,

18.11.2017.

36. *"Synthesis and characterization of alkenyl-functional derivatives of incompletely condensed silsesquioxanes"*,

Kinga Stefanowska, **Adrian Franczyk**, Jakub Szyling, Tomasz Sokolnicki,
Jędrzej Walkowiak,

III National Symposium on Bioorganic, Organic Chemistry and Biomaterials,

Poznan, Poland,

7.12.2019.

37. *"Selective synthesis of new alkenyl-substituted silsesquioxanes with an open core structure"*,

Jakub Nagórny, Kinga Stefanowska, **Adrian Franczyk**, Jędrzej Walkowiak,

IV National Symposium on Bioorganic, Organic Chemistry and Biomaterials,

Poznan, Poland,

3.12.2022.

38. *"Hydrosilylation of 1,3-diynes with silsesquioxane (HMe₂SiO)(i-Bu)₇Si₈O₁₂"*,

Joanna Wojtukiewicz, Kinga Stefanowska, **Adrian Franczyk**, Jędrzej Walkowiak,

IV National Symposium on Bioorganic, Organic Chemistry and Biomaterials,

Poznan, Poland,

3.12.2022.

39. *"Catalytic hydrosilylation of 1,3-diynes with triorganosilanes"*,

Michał Szymkowiak, Kinga Stefanowska, **Adrian Franczyk**, Jędrzej Walkowiak,

IV National Symposium on Bioorganic, Organic Chemistry and Biomaterials,
Poznan, Poland,
3.12.2022.

2.6. Information on participation in organizational and scientific committees at national or international conferences, including the applicant's function

I participated in the work of organizing committees of national and international scientific conferences:

1. The 16th International Symposium on Olefin Metathesis and Related Chemistry - ISOM XVI, 7-12.08.2005, Poznan, Poland:
 - service of lecture halls;
 - assistance in organizing the transport of participants;
 - carrying out current tasks during the conference.
2. 5th International School on Molecular Catalysis – Organic and Polymer Synthesis and Catalysis, 12-16.08.2005, Poznan, Poland:
 - service of lecture halls;
 - assistance in organizing the transport of participants;
 - carrying out current tasks during the conference.
3. 17th International Symposium on Homogeneous Catalysis - ISHC 17, 4-9.07.2010, Poznan, Poland:
 - service of lecture halls;
 - assistance in organizing the transport of participants;
 - carrying out current tasks during the conference.
4. The mission of chemo-, bio-, and nanotechnology at the Wielkopolska Center for Advanced Technology: materials and biomaterials, 28-29.11.2011, Poznan, Poland:
 - service of lecture halls;
 - assistance in organizing the transport of participants;
 - carrying out current tasks during the conference.

5. 8th European Silicon Days, 28-31.08.2016, Poznan, Poland:
 - cooperation with sponsors;
 - preparation of exhibition stands for companies;
 - assistance in organizing the transport of participants;
 - work at the participant registration point;
 - other opinions related to the organization of the symposium.

2.7. Information on participation in the works of research teams realizing projects financed through national and international competitions, including the projects which have been completed and projects in progress, and information on the function performed in the team

2.7.1. Participation in the works of research teams realizing projects as a principal investigator

A) Finished

Before Ph.D.:

1. Project Ventures, **Ventures/2010-6/3**, funded by Foundation for Polish Science, *“Application of silsesquioxanes in the synthesis of modern hybrid materials using the atom transfer radical polymerization process”*, 01.2011-08.2012, role in the project: **principal investigator.**

After Ph.D.:

2. Project Leader, **LIDER/6/0017/L-9/17/NCBR/2018**, funded by NCBR, *“Bifunctional $RR'_7Si_8O_{12}$ silsesquioxanes - precisely designed building blocks for the synthesis of advanced hybrid materials”*, 01.02.2019-31.01.2023, role in the project: **principal investigator.**

B) In progress:**After Ph.D.:**

3. Project under the Excellence Initiative - Research University, Competition 38, Task 04 - "Support for talent management - stopping brain drain",
038/04/NŚ/0036, funded by ID-UB, AMU,
"Synthesis and characterization of new linear and star block copolymers with the POSS moiety obtained by the ATRP method",
 01.06.2022-31.12.2023,
 role in the project: **principal investigator**.

2.7.2. Participation in the works of research teams realizing projects as an investigator

A) Completed:**Before Ph.D.:**

1. Research project N **204 162 32/4248**,
„Siloxo complexes of rhodium, iridium and ruthenium - synthesis, reactivity and catalytic activity in homo- and heterogeneous systems”,
 principal investigator - Prof. Dr. Hab. Bogdan Marciniec,
 04.2007 - 03.2010, role in the project: **investigator**.
2. Development project N **R05 0005 04**,
„Functionalized cage silsesquioxanes – syntheses and technologies”,
 principal investigator: Prof. Dr. Hab. Bogdan Marciniec,
 05.2008 – 12.2010,
 role in the project: **investigator**.
3. Project **Iuventus Plus**,
„New methods for the synthesis of functionalized alkenes and dienes”,
 principal investigator: Prof. Dr. Hab. Piotr Pawluć,
 01.2010–12.2010,

role in the project: **investigator**.

4. Research project POIG 01.03.01-30-173/09,

„Silsesquioxanes as nanofillers and modifiers in polymer composites”,

principal investigator: Prof. Dr. Hab. Bogdan Marciniec,

01.01.2010 – 31.12.2013,

role in the project: **investigator**.

After Ph.D.:

1. Research project OPUS 2012/07/B/ST5/03042, funded by NCN,

“Silsesquioxanes in the polymerization and copolymerization of olefins as comonomers and components of organometallic catalytic systems”,

principal investigator - Prof. Dr. Hab. Krystyna Czaja,

09.2013-09.2015,

role in the project: **investigator**.

2. Research project MAESTRO UMO-2011/02/A/ST5, funded by NCN,

“Metaloinorganic catalysis - a new strategy for the synthesis of organometallic reagents, polymers and nanomaterials”,

principal investigator - Prof. Dr. Hab. Bogdan Marciniec,

05.2012-2015,

role in the project: **investigator**.

3. Project OPUS: UMO-2015/19/B/ST5/00240, funded by NCN,

“Synthesis of molecular and macromolecular organometallic compounds through new processes catalyzed by Lewis acids”,

principal investigator – Prof. Dr. Hab. Grzegorz Hreczycho,

02.2015-12.2018,

role in the project: **investigator**.

4. Project Leader: **LIDER/026/527/L-5/13/NCBR/2014** funded by NCBR,
"Catalyzed by transition metal complexes synthesis of unsaturated organoboron and silicon compounds in compressed CO₂ - a green perspective for applied organometallic catalysis",
principal investigator – Prof. UAM Dr. Hab. Eng. Jędrzej Walkowiak,
02.2015-12.2018,
role in the project: **investigator**.

5. Research project **PBS3/A1/16/2015** funded by NCBR,
"Advanced technologies for the synthesis of functionalized silsesquioxanes for applications in special materials",
principal investigator - Prof. Dr. Hab. Bogdan Marciniak,
05.2015-05.2018,
role in the project: **investigator**.

B) In progress:

6. Project Sonata Bis, **UMO- 2019/34/E/ST4/00068**, funded by NCN,
"A new approach to the hydroboration processes of unsaturated carbon-carbon and carbon-heteroatom bonds in repetitive and flow systems",
principal investigator – Prof. UAM Dr. Hab. Eng. Jędrzej Walkowiak,
01.10.2020-30.09.2025,
role in the project: **investigator**.

International project:

7. Project Beethoven, **UMO-2018/31/G/ST4/04012**, funded by NCN,
"Catalytic hydrosilylation in the SILP/scCO₂ system - an innovative approach to the reduction and functionalization of alkynes, imines and carbonyl compounds",
principal investigator – Prof. UAM Dr. Hab. Eng. Jędrzej Walkowiak,
31.08.2020-30.08.2024,
role in the project: **investigator**.

2.8. Information on internships completed in scientific or artistic institutions, also abroad, including the place, time and duration of the internship and its character

During my scientific career, I completed two research internships in foreign research units. The first internship in the period 04-07.2009 (4 months) was carried out in the group of Prof. Maria Rosario-Ribeiro at the Instituto Superior Tecnico, Dep. Engenharia Química e Biológica at the Universidade de Lisboa (Lisbon, Portugal), as part of the Lifelong Learning Program - Erasmus. During the internship, studies on the use of silsesquioxanes in ethylene polymerization ("Silsesquioxanes - application in ethylene polymerization") were performed.

The second internship was in the period 01.2012-06.2012 (6 months), in the group of Prof. Krzysztof Matyjaszewski, at the Department of Chemistry, Carnegie Mellon University (Pittsburgh, United States), as part of the Ventures project awarded by the Foundation for Polish Science. The topic of performed work was *"The use of silsesquioxanes in the synthesis of modern hybrid polymers using the atom transfer radical polymerization (ATRP) process"*.

Additionally, I completed two internships in chemical companies (one foreign, one domestic). The first one was in the period 04.2007–09.2007 (6 months), at the Chemical Laboratory, Mitsubishi Chemical Group Science and Technology Research Center (Yokohama, Japan). As part of this internship, I completed a research project titled: *"Post-metallocene catalysts for ethylene polymerization"*. The scientific internship was carried out in the laboratory of the Mitsubishi Research and Development Center under the supervision of Dr. Fumihiko Shimizu.

I completed my second internship at the Cracking, Alkylation, and Lubricating Oils Laboratory at Orlen Laboratorium (Orlen, Plock, Poland). The aim of the internship was to become familiar with the methods and standards for determining the quality of oils produced by the Orlen concern (11.09 2006–29.09.2006, two weeks).

2.9. Information on scientific works reviewed, in particular those published in international journals

Nine reviews were prepared for articles published in international scientific journals: Organic Letters (1), Inorganic Chemistry (2), ChemCatChem (1), RSC Advances (1), Catalysts (2), Inorganics (1), Processes (1).

2.10. Information on participation in European or other international programmes

I participated in the Lifelong Learning Program - Erasmus, in the period 04-07.2009 (4 months). An internship was completed in the group of Prof. Maria Rosario-Ribeiro at the Instituto Superior Tecnico, Dep. Engenharia Química e Biológica at the Universidade de Lisboa (Lisbon, Portugal). During the internship, research was carried out on the use of silsesquioxanes in ethylene polymerization ("*Silsesquioxanes - application in ethylene polymerization*").

2.11. Information on participation in research teams realizing projects

I was a co-supervisor of a Ph.D. student (in 2018-2023) participating in the Synthos Generation program, which is a scholarship program addressed to students and PhD students of chemical faculties. Scholarship holders implement projects defined together with Synthos and the university research topics closely related to the development of Synthos products.

3. Information on cooperation with social and economic environment

3.1. Information on cooperation with economic sector

1. Cooperation with Synthos company (2018-2023) by the Synthos Generation program - supervision (secondary supervisor) of a doctoral student participating in the program.
2. Performing gel permeation chromatography (GPC) measurements as part of orders from scientific institutions and companies.

3.2. Obtaining the right of industrial property, including the national or international patents granted

Patents:

A) Before Ph.D.:

International:

1. "*New heterogenized rhodium complexes, methods of their synthesis and application as hydrosilylation catalysts*",

Bogdan Marciniak, Ryszard Fiedorow, Karol Szubert, Ireneusz Kownacki,
Adrian Franczyk, Michał Dutkiewicz, Kinga Łęszczak,
US2010048932(A1), **2010**.

Domestic:

2. *"Method for obtaining (alkyl, aryl)silylpropyl ethers"*,
Bogdan Marciniak, Karol Szubert, **Adrian Franczyk**, Ireneusz Kownacki,
Ryszard Fiedorow,
PL210207, **2011**.

3. *"Method of obtaining modified polysiloxanes"*
Bogdan Marciniak, Karol Szubert, Adrian Franczyk, Ireneusz Kownacki, Ryszard
Fiedorow,
PL208938, **2011**.

B) After Ph.D.:

Domestic:

1. *"Method of hardening epoxy resin using bis(heptaphenylaluminasilsesquioxane)
as a hardening agent"*,
Danuta Chmielewska, Tadeusz Sterzyński, Bogdan Marciniak, **Adrian Franczyk**,
PL 217788, **2014**.

2. *"New divinylidiborasilsesquioxane and method of its preparation"*,
Jędrzej Walkowiak, **Adrian Franczyk**, Jakub Szyling, Bogdan Marciniak,
PL 235 934, **2020**.

3. *"Catalytic systems containing ruthenium(II) complexes immobilized in poly(ethylene
glycols) and alkoxy poly(ethylene glycols) and a method for carrying out the
transmetalation of olefins and vinyl metalloids in the presence of these systems"*,

Monika Ludwiczak, Jędrzej Walkowiak, Jakub Szyling, Aneta Garbicz,
Adrian Franczyk,
 PL 239 700, **2021**.

4. *"Method of coupling olefins and vinyl metalloids"*,

Monika Ludwiczak, Jędrzej Walkowiak, Jakub Szyling, Aneta Garbicz,
Adrian Franczyk, Kinga Stefanowska,
 PL 240822, **2022**.

4. Scientometric information

4.1. Information on the Impact Factor (in the fields and disciplines in which this parameter is commonly used as a scientometric index)

For 42 articles:

Total $IF_{2022} = 228,1$

Total $IF^{5-yr}_{2022} = 227,6$

Average IF = 5,4

Average $IF^{5-yr}_{2022} = 5,4$

Corresponding author in 9 articles.

For H2-H8 (7 articles):

Total $IF_{2022} = 32,2$

Total $IF^{5-yr}_{2022} = 32,4$

Average IF = 4,6

Average $IF^{5-yr}_{2022} = 4,6$

Corresponding author in 7 articles (**H2-H7**).

4.2. MEiN points

For all 42 articles:

Total number of MEiN points MEiN = 5030

Average number of MEiN points = 120

For H2-H8 (7 articles):

Total number of MEiN points = 1020

Average number of MEiN points = 146

4.3. Information on the number of citations of the applicant's publications, including a separate list of self-citations

Total number of publications = Scopus (43); Web of Science (41); Google Scholar (60).

Total citations = Scopus (576); Web of Science (548); Google Scholar (647).

Total citations without self-citations = Scopus (406); Web of Science (390).

Average number of citations = Scopus (13,4); Web of Science (13,4); Google Scholar (10,8).

Average number of citations without self-citations = Scopus (9,4); Web of Science (9,5).

Total number of citing articles = Scopus (329); Web of Science (313).

Total number of citing articles without self-citations = Web of Science (283).

4.4. Hirsch index

Indeks Hirsha = Scopus (17); Web of Science (16); Google Scholar (18).

Indeks Hirsha Total citations without self-citations = Scopus (12).

.....Adrian Franczyk.....

(the applicant's signature)