

## English

Education: 2010 - Member of the Polish Academy of Sciences 2006 - Coordinator of Wielkopolska Center of Advanced Technologies 1986 - Professor 1976 - Ass. Professor 1975 - Habilitation - Adam Mickiewicz University, Poznań, Poland 1970 - D.Sc. - Adam Mickiewicz University, Poznań, Poland 1963 - M.Sc. - Adam Mickiewicz University, Poznań, Poland Academic career: 2017 - V-President of Wielkopolska Centre for Advanced Technologies Foundation 2006 - 2017 Coordinator of Centre of Advanced Chemical Technologies 2004 - 2017 Director of Centre of Advanced Technologies 2001 - 2015 President of Adam Mickiewicz University Foundation 2000 - Director of Centre of Excellence & Centre of Silicon Chemistry 1995 - 2015 Director of Poznań Science and Technology Park 1988 - 1990 Rector of Adam Mickiewicz University, Poznań, Poland 1985 - 1988 Dean of the Faculty of Chemistry, Adam Mickiewicz University, Poznań, Poland 1987 - 2011 Head of Department of Organometallic Chemistry, AMU, Poznań, Poland 1977 - 1987 Head of Department of Physical Inorganic Chemistry, AMU, Poznań, Poland 1976 - 1977 Head of Laboratory of Silicon Chemistry, AMU, Poznań, Poland 1976 - 1986 Associate Professor at the Faculty of Mathematics, Physics & Chemistry, Poznań, Poland 1970 - 1971 Postdoctoral fellow with Prof. R.L. Schowen (Kansas University, USA)

- beginning of work in organosilicon chemistry 1970 - 1976 Adjunct at the Faculty of Mathematics, Physics & Chemistry, Poznań, Poland 1963 - 1970 Research and teaching assistant at the Faculty of Mathematics,

Physics & Chemistry, Poznań, Poland Research areas: Organosilicon chemistry and catalysis by organometallic and inorganometallic compounds. Synthesis and reactivity of organic derivatives of silicon but also containing B, Ge, Sn, and other metalloids mainly in the presence of transition metal complexes. Properties and application of organosilicon compounds. Among the main research topics are:

- hydrosilylation of C=C and C≡C bonds
- new homogeneous and immobilized catalysts and precursors
- cross-metathesis and silylative coupling of olefins and acetylenes with vinyl-silicon compounds catalyzed by transition metal (Ru, Rh, Ir, Co) complexes. Application of Organosilicon products in organic synthesis
- silylative coupling polycondensation and ADMET polymerization vs. ring-closure metathesis of silicon containing dienes (Ru, Rh complexes)
- activation of =C-H and ≡C-H bonds by M-Si, M-B, M-Ge, M-Sn (inorganometallics) and M-H complexes (M = Ru, Rh, Ir, Fe, etc.) over heteroatom-hydrogen bonds by olefins and acetylenes
- metallation of =C-H and ≡C-H and heteroatom-hydrogen bonds by vinylmetalloids (Si, Ge, B)
- new TM complexes with organosilicon ligands (siloxides,  $\pi$ -complexes, silylenes, carbenes) - synthesis, structure, reactivity and application to catalysis
- synthesis and technology of molecular and macromolecular organosilicon compounds via TM catalysis as well their application as fine chemicals (precursors of materials),
- functionalized silsesquioxanes as nanofillers and nanocompounds. Books: editor and/or co-author - 16 and guest editor - J.Mol.Catal. (2004, 2006):
- B. Marciniec, Misja Nauk Chemicznych, Wydawnictwo Nauka i Innowacje 2012 (redaktor i autor rozdziału). [Mission of Chemistry. (editor and author of one chapter) in Polish]
- B. Marciniec, H. Maciejewski, C. Pietraszuk, P. Pawluć, Hydrosilylation. A Comprehensive Review on Recent Advances, (Ed. B. Marciniec) Springer, 2009, 410 pages.
- B. Marciniec, Education in Advanced Chemistry, Vol. 10. Organic and Polymer Synthesis and Catalysis; Wydawnictwo Poznańskie, Poznań-Wrocław, 2006, 344 pages (editor and co-author)
- B. Marciniec, Misja Chemii, Wydawnictwo Poznańskie, Poznań, 2004 [Mission of chemistry, in Polish]
- B. Marciniec, Education in Advanced Chemistry, Vol.8. Organotransition Metal Chemistry and Catalysis, B. Marciniec (editor), Poznań-Wrocław, 2002
- B. Marciniec, Elementy polityki innowacyjnej państwa w relacji nauka-gospodarka Innowacje - podaż-popyt, instrumenty transferu, finansowanie (red. J.Guliński, B.M. Marciniec), Wydawnictwo Poznańskie, Poznań, 2000
- B. Marciniec, J. Guliński, Parki Naukowo-Technologiczne & Polska Perspektywa, Wydawnictwo Poznańskie, 1999 (ko-edytor i autor rozdziału) [Science and Technology Parks from Polish perspective, co-editor and author of one chapter, in Polish]
- B. Marciniec, Education in Advanced Chemistry, Vol.6 Mechanistic Aspects of Molecular Catalysis, B. Marciniec (editor), Poznań-Wrocław, 1999
- B. Marciniec, Education in Advanced Chemistry, Vol.5. Biological and Chemical Waste Treatment Technologies, B. Marciniec (editor), Poznań-Wrocław, 1998
- B. Marciniec, Education in Advanced Chemistry, Vol.2 Organometallic and Molecular Catalysis, B. Marciniec (editor) Poznań-Wrocław, 1996

- B. Marciniak, J. Chojnowski Progress in Organosilicon Chemistry B.Marciniak, J.Chojnowski eds, Gordon&Breach Pub., Langhorne, 1995 (co-editor and co-author of the Chapter 26)
- B. Marciniak, J. J. Ziółkowski, Education in Advanced Chemistry, Vol.1. Principles and Advances in Molecular Catalysis, B.Marciniak and J. J. Ziółkowski (editors and authors of the Chapter 10), Poznań-Wrocław, 1993
- B. Marciniak, J. Gulinski, W. Urbaniak, Z. W. Kornetka Comprehensive Handbook on Hydrosilylation (B.Marciniak, ed.) Pergamon Press, Oxford, 1992, 754 pages.
- B. Marciniak, J. Siepak, Edukacja ekologiczna, Mat I Miedzynarodowej Szkoły Letniej Ochrony Środowska, (red.B.Marciniak, J.Siepak) Wyd. Naukowe UAM Poznan, 1991 [Ecological education, Proceedings of the International Summer School on Protection of the Natural Environment, editors B. Marciniak, J. Siepak, in Polish]
- B. Marciniak, Aktualne kierunki badan i zastosowań procesów hydrosililowania, "Wybrane zagadnienia chemii krzemu" (red.B.Marciniak), Seria Chemia, nr 47, Wyd.UAMPoznan, 1983 ["Current lines of research and application of hydrosilylation processes" in "Selected problems of the silicon chemistry", edited by B. Marciniak, in Polish.
- B. Marciniak, J. Gulinski, Z. Kornetka, J. Bartz, Hydrosililowanie (Pol.) (B.Marciniak, cd.), Wydawnictwo PWN Warszawa-Poznan (1981), 455 stron [Hydrosilylation, in Polish]. Papers and book chapters mainly in foreign journals &ndash; 441

Co-author of about 200 patents and 17 licences Work out technologies - 45 Supervisor of 37 Ph.D. theses and over 140 M.Sc. theses Present or Past Member of Editorial Boards of the Journal: 2009 - 2016 ChemCatChem (Wiley InterScience) 2007 - "The Open Inorganic Chemistry Journal" (Bentham Publ.) 2006 - "Trends in Organometallic Chemistry" (Research Trends Ltd) 2006 - "Chemik" (&ldquo;Chemist&rdquo;) 1998 - 2000 "Organometallics" (American Chemical Society) 1998 - 2000 &ldquo;Clean Products&Processes&rdquo; 1996 - 2004 &ldquo;Encyclopedia Britannica&rdquo; (Polish version) 1995 - "Przemysł Chemiczny" (&ldquo;Chemical Industry&rdquo;) 1987 - 2008 &ldquo;Applied Organometallic Chemistry" (Wiley InterScience) Member of Advisory Board of International Symposia: 2008 - 2012 International Symposium on Homogeneous Catalysis 2000 - European Silicon Days 1999 - Organometallics and Catalysis 1993 - International Symposium on Olefin Metathesis and Polymerization 1993 - International Symposium on Organosilicon Chemistry The Chairman of the International Symposia and Schools: 2016 8th European Silicon Days - Poznań 2010 17th International Symposium on Homogeneous Catalysis - Poznań 2005 16th International Symposium on Olefin Metathesis &ndash; Poznań International Schools on Molecular Catalysis 2005 V "Organic and Polymer Synthesis and Catalysis" &ndash; Poznań-Rosnówko 2001 IV "Organotransition Metal Chemistry and Catalysis" &ndash; Poznań-Dymaczewo 1998 III "Mechanistic Aspects of Molecular Catalysis" &ndash; Łagów 1995 II "Organometallics and Molecular Catalysis" &ndash; Poznań-Kiekrz 1992 I "Principles and Advances in Molecular Catalysis" &ndash; Poznań-Baranowo 1993 Xth International Symposium on Organosilicon Chemistry &ndash; Poznań Membership of scientific institution and other: 2015 - Member of The Agder Academy of Sciences and Letters) 2009 - Member of The European Academy of Arts, Sciences and Humanities 2005 - Representative of Polish Government to the Mirror Group of European Technology Platform for Sustainable Chemistry 2005 - 2008 Vice-Chairman of Committee of Scientific and Technologies Policy 1994 - 2000 Member of State Committee for Scientific Research (Poland) 1997 - 2000 Vice-Chairman of State Committee for Scientific Research (Poland) 1999 - Member of American Chemical Society 1999 - Member of Academy of Engineering in Poland 1996 - 2007 President of Committee of Chemistry Polish Academy of Sciences 1996 - 2007 President of National Committee of IUPAC 1995 - Member of New York Academy 1994 - Corresponding Member of the Polish Academy of Sciences 1991 - Member of Rotary Club International - Poznań branch Co-ordinator of research projects and contracts with industry: 2007 - 2015 Dow Corning, UK, 2006 - Grace Sp. z o.o. (Innovation Center) 2001 - COST D17 Project C-C bond formation mediated by transition metal complexes: Fundamental studies and mechanistic aspects 1997 - 2006 General Electric Silicones, Momentive, Performan Material 1998 - 1999 DEGUSSA (Germany) 1999 - 2002 NATO Project No 972638 Novel membrane materials and membranes for separation of hydrocarbons in natural and petroleum gas 2000 - Hansa Textilchemie GmbH (Oyten, Germany) 2000 - 2002 Centre of Silicon Chemistry (Center of Excellence) Program Phare UE 1987 - Grupa Azoty S.A. in Tarnow, Poland Head of over 30 research projects supported by Ministry of Science and Higher Education, National Center for Research and Development, National Science Center 2010-2015 Head of five projects co-financed by the European Regional Development Fund under the

Operational Programme Innovative Economy 2007-2013: Priority I. Research and development of modern technologies, Measure 1.3 Support for R&D projects for entrepreneurs carried out by scientific entities, Sub-measure 1.3.1 Development projects; Sub-measure 1.3.2 Support for the protection of industrial property generated in scientific entities as a result of R&D works. Priority II Infrastructure of the R&D area, Action 2.1 Development of high research potential centres, Project title: Building and equipping the Wielkopolska Centre of Advanced Technologies in Poznań Selected invited and contributed lectures in foreign countries: Jinan (China) 2017, Zurich (Switzerland) 2017, Copenhagen (Denmark) 2017, Sevilla (Spain) 2016, Paris (France) 2015, Graz (Austria) 2015, Davis CA (USA) 2015, Aussois (France) 2015, Ottawa (Canada) 2014, Berlin (Germany) 2014, Doha (Qatar) 2014, Recife (Brasil) 2013, Lyon, Toulouse (France) 2012, Midland (USA) 2011, Toronto (Canada) 2011, Lipsk (Germany) 2009, Bad Alexanderbad (Germany) 2008, Firenze (Italy) 2008, Jeju (Korea) 2008, Sayda (Germany) 2008, Victoria (Canada) 2007, Pasadena (USA) 2007, Bath, Barry (UK) 2007, Sun City (South Africa) 2006, Liege (Belgium) 2006, Hamburg (Germany) 2006, Vienna (Austria) 2006, 2009, Wurzburg, Leverkusen (Germany) 2005, Bad-Wildbad, Bayreuth (Germany) 2004, 2007, Philadelphia (USA) 2004, Dortmund (Germany) 2004, Almeria (Spain) 2003, Schenectady (USA) 2003, Bucarest (Romania) 2003, 2008, Antalya (Turkey) 2002, Tarragona (Spain) 2002, Guanajuato (Mexico) 2002, Corfu (Greece) 2002, Munich (Germany) 2001, 2003, 2004, Boston (USA) 2001, Seoul (Korea) 2001, San Feliu (Spain) 2000, Shanghai (China) 2000, Lisbon (Portugal) 1999, Rennes (France) 1999, 2011, Sendai (Japan), Kyoto (Japan) 1999, 2003, Seoul (Korea) 1999, Hanau & Degussa & (Germany) 1998, St. Petersburg (Russia) 1998, Cincinnati (USA) 1997, Waterford & GE Silicones & (USA) 1997, Pittsburgh (USA) 1997 Honors: 2015 - Member of the Agder Academy of Sciences and Letters (Norway), 2015 - Tadeusz Sendzimir Honorary Medal awarded by the National Council of Association of Polish Discoverers and Rationalisers for persons who rendered great services for innovation movement 2015 - Medal in the category of "outstanding researcher" awarded by the Association for Eugeniusz Kwiatkowski Industrial Cluster of the Central Industrial Region 2015 - The title of the Honorary Ambassador of Wielkopolska Brand, a distinction awarded by the Marshal of Wielkopolska Voivodeship 2014 - Member of the Chapter of the Poznań Leader of Entrepreneurship 2014 - Professor Marciniec was the third in the poll "Nauka to wolność" [Knowledge is freedom] organised by the Ministry of Science and Higher Education to choose the most important scientific achievement in the last 25 years, for the search for new reactions and new catalysts in silicon compounds chemistry and for foundation of the first in Poland Science and Technology Park in Poznań, in 1995. 2013 - Doctor honoris causa of the Technical University in Łódź (Poland) 2011 - Commander's Cross with the Star Order of Polonia Restituta 2010 - The Organic Work Award for the most outstanding inhabitants from the Wielkopolska Region best owed annually by the Editorial Board of Glos Wielkopolski (the most popular regional newspaper in Wielkopolska) 2009 - Award of Foundation for Polish Science in the area of technical sciences (&quot;Polish Nobel&quot;) 2009 - The Honorary Pearl in the Science category in the 7th edition of the Pearls of the Polish Economy 2009 - Interdisciplinary Award of Ministry of Science and Higher Education at research on behalf of development of science 2002 - J. Śniadecki Medal, Polish Chemical Society 2001 - Prime Ministry Award 1988 - Poznań city Award