

2011 - 2016

1. B.Dudziec, M.Rzonsowska, B.Marciniak A new protocol for synthesis of bifunctional alkynyl[vinyl or (E)-alkenyl]substituted organosilicon compounds *J.Organometal.Chem.*, 2011, 696, 527-532.
2. P.Zak, B.Marciniak, M.Majchrzak, C.Pietraszuk Highly Effective Synthesis of Functionalized Cubic Silsesquioxanes *J.Organometal.Chem.*, 2011, 696, 887-891
3. G.Hreczycho, D.Frackowiak, P.Pawluc, B.Marciniak A New Catalytic Approach to Germanosiloxanes *Tetrahedron Letters*, 2011, 52, 74-76
4. I.Kownacki, B.Marciniak, B.Dudziec, M.Kubicki Silylative Coupling of Terminal Alkynes with Iodosilanes - New Catalytic Activation of sp-hybridized Carbon-Hydrogen Bonds *Organometallics*, 2011, 30, 2539-2545
5. B.Marciniak, S.Rogalski, M.J.Potrzebowski, C.Pietraszuk Ruthenium Carbene Siloxide Complexes Immobilized on Silica - Synthesis and Catalytic Activity in Olefin Metathesis *ChemCatChem.*, 2011, 3, 904-910.
6. M.Dutkiewicz, H.Maciejewski, B.Marciniak, J.Karasiewicz New Fluorocarbofunctional Spherosilicate - Synthesis and Characterization *Organometallics*, 2011, 30, 2149-2153
7. B.Marciniak, I.Kownacki, A.Franczyk, M.Kubicki Silsesquioxyl Rhodium(I) Complexes - Synthesis, Structure and Catalytic Activity *Dalton Transactions* 2011, 40, 5073-5077
8. M.Ludwiczak, M.Majchrzak, B.Marciniak, M.Kubicki Highly Stereoselective Synthesis of Novel Trans-Thiophenylene-silylene-vinylene-styrene Molecular and Macromolecular Compounds *J.Organometal.Chem.*, 2011, 696, 1456-1464
9. G.Brudzinski, M.Bayda, G.L.Hug, M.Majchrzak, B.Marciniak, B.Marciniak Time-resolved Studies on the Photoisomerization of a Phenylene-Silylene-Vinylene Type Compound in its first Singlet Excited State *Journal of Luminescence*, 2011, 131, 577-580
10. P. Pawluc J. Szudkowska, G. Hreczycho, B. Marciniak One-pot synthesis of (E)-styryl ketones from styrenes *J.Organic Chemistry*, 2011,76, 6438-6441
11. P.Pawluc, A.Franczyk, J.Walkowiak, G.Hreczycho, M.Kubicki, B.Marciniak (E)-9-(2-Iodovinyl)-9H-carbazole: A New Coupling Reagent for the Synthesis of  $\pi$ -Conjugated Carbazoles *Org.Lett.*, 2011, 13, 1976-1979
12. M.Lapkowski, J.Zak, K.Karon, B.Marciniak, W.Prukala The Mixed Carbon-nitrogen Conjugation in the Carbazole Based Polymer; The Electrochemical,UVVis, EPR, and IR Studies on 1,4 bis[(E)2-(9H-carbazol-9-yl) vinyl]benzene *Electrochimica Acta*, 2011, 56, 4105-4111
13. G. Hreczycho, P. Pawluc, B. Marciniak A new selective approach to unsymmetrical siloxanes and germasiloxanes via O-metalation of silanols with 2-methylallylsilanes and 2-methylallylgermanes *New Journal of Chemistry*, 2011, 35, 2743-2746
14. R. Jeziorska, B.Swierz-Motysia, A. Szadkowska, B.Marciniak, H. Maciejewski, M. Dutkiewicz, I.Leszczynska Effect of POSS on morphology, thermal and mechanical properties of polyamide *Polimery* 56, 2011, 809-816.
15. A. Skarynska, M. Majchrzak, A. M. Trzeciak, B. Marciniak An Efficient Synthesis of Functional Stilbenes in Hiyama Coupling Reaction Catalysed by HspirophosphoranePalladium Complex *J.Mol.Catal.*, 2011, 351, 128-135
16. A.Wawrzynczak, M.Dutkiewicz, J.Gulinski, H.Maciejewski, B.Marciniak, R.Fiedorow Hydrosilylation of n-alkenes and Allyl Chloride over Platinum Supported on Styrene-divinylbenzene Copolymer *Catalysis Today*, 2011, 169, 69-74
17. M.Dutkiewicz, H.Maciejewski, B.Marciniak Synthesis of Azido, hydroxy- and nitro- hydroxy-functionalized spherosilicates via Oxirane Ring Opening Reactions *Synthesis*, 2012, 44, 881-884
18. K. Szwarc-Rzepka, F. Ciesielczyk, M. Zawisza, M. Kaczmarek, M. Dutkiewicz, B. Marciniak, H.Maciejewski, T. Jesionowski Synthesis of hepta(isobutyl)ethyltriethoxysilyl-octasilsesquioxane and its application as a modifier of both hydrated and emulsion silicas *Physicochemical Problems of Mineral Processing* 2012, 48, 619-630
19. K. Szwarc; K. Siwinska-Stefanska, B. Marciniak, T. Jesionowski Synthesis and Characterisation of SiO(2)/POSS Hybrid Systems Obtained Using the Mechanical Method *Source Physicochemical Problems of Mineral Processing* 2012, 48, 181-192
20. M. Dutkiewicz, H. Maciejewski, B. Marciniak Synthesis of azido-, hydroxy- and nitro-, hydroxy-functionalized spherosilicates via oxirane ring-opening reactions *Synthesis*, 2012, 44, 881-884
21. P. Pawluc, A. Franczyk, J. Walkowiak, G. Hreczycho, M. Kubicki, B. Marciniak Highly stereoselective synthesis of N-substituted  $\pi$ -conjugated phthalimides. *Tetrahedron*, 2012, 68, 3545-3551
22. H. Maciejewski, K. Szubert, B. Marciniak New approach to synthesis of functionalised silsesquioxanes via hydrosilylation *Catalysis Commun.*, 2012, 24, 1-4
23. H. Maciejewski, J. Karasiewicz, B. Marciniak Effective synthesis of fluorofunctional (poly)siloxanes *Polimery*, 2012, 57, 449-455
24. J. Walkowiak, B. Marciniak Synthesis of unsaturated starburst compounds with a boron atom in the core *Organometallics*, 2012, 31, 3851-3856
25. D. Ambrozewicz, B. Marciniak, T. Jesionowski New POSS/magnesium silicate nano-hybrids obtained by chemical or mechanical method *Chem. Engineering J.*, 2012, 210, 229-236
26. B.Marciniak, K.Posala; I.Kownacki; M.Kubicki, R.Taylor New Bis(dialkynyldisiloxane)triplatinum(0) Cluster: Synthesis *ChemCatChem*, 2012, 4, 1935-1937
27. H.Maciejewski, M. Dutkiewicz, I.Byczynski, B.Marciniak Silsesquioxanes as Nanofillers. Part I. Silisone matrix nanocomposites *Polimery*, 2012, 57, 525-544
- 28.

- D.Prządka, J.Jęczalik, E.Andrzejewska, B.Marciniak, M.Dutkiewicz Novel hybrid polyurethane/POSS materials via bulk polymerization *Reactive&Functional Polymers*, 2013, 73, 114-121
29. G.Hreczycho, K.Kucinski, P.Pawluc, B.Marciniak Catalytic synthesis of linear oligosiloxanes and germsiloxanes mediated by scandium trifluoro-methanesulfonate *Organometallics*, 2013, 32, 5001-5004
30. G.Hreczycho, M.K.Chmielewski, H.Maciejewski, T.Ratajczak, B.Marciniak Immobilization of Biomolecules via Ruthenium-catalyzed Functionalization of the Surface of Silica with a Vinylsilane Tetrahedron *Letters* 54, 3605-3608 (2013)
31. E.Hebda, M.Jancia, M.Dutkiewicz, B.Marciniak, K.Pielichowski Polyurethane/POSS Nanohybrids - Chemical Structure and Morphology *Modern Polymeric Materials for Environmental Applications*, 2013, 5,175-180
32. B.Marciniak Silseskwioxany jako nanonapelniacze i modyfikatory w kompozytach polimerowych - wprowadzenie *Polimery* , 2013, 58, 731-732
33. M.Jancia, E.Hebda, K.Pielichowski, A. Franczyk, B.Marciniak Study of UV Ageing of Polyurethane Elastomers Modified by Polyhedral Oligomeric Silsesquioxanes *Modern Polymeric Materials for Environmental Applications*, 2013, 5,187-192
34. M.Przybylak, H.Maciejewski, B.Marciniak Synteza i charakterystyka silseskwioxanów o strukturze niecałkowicie skondensowanych klatek *Polimery*, 2013, 58, 741-747
35. K. Pielichowski, M. Jancia, E. Hebda, J. Pagacz, J. Pielichowski, B. Marciniak, A. Franczyk Poliuretany modyfikowane funkcjonalizowanym silseskwioxanem - synteza i właściwości *Polimery*, 2013, 58, 783-793
36. M. Szolyga, M. Dutkiewicz, B. Marciniak, H. Maciejewski Synteza reaktywnych żywic siloksanowo-silseskwioxanowych *Polimery*, 2013, 58, 766-777
37. B.Dudziec, M.Rzonsowksa. B.Marciniak New mono-and diethynylsiloxysesquioxanes-efficient procedures for their synthesis *Dalton Transactions* 2014, 43, 13201-13207
38. K.Szwarc-Rzepka, B.Marciniak, T.Jesionowski Immobilization of multifunctional silsesquioxane cage on precipitated silica supports *Adsorption-Journal of the International Adsorption Society* 2013,19, 483-494
39. K.Szwarc-Rzepka, N.Gogola, K.Siwnska-Stefanska, B.Marciniak, T.Jesionowski Synthesis and physicochemical characterization of silica fillers modified with octakis({3-methacryloxypropyl}dimethylsiloxy) octasilsesquioxane *Polish Journal of Chemical Technology*, 2013, 15, 1-9
40. K.Szubert, B.Marciniak, M.Dutkiewicz, M.J.Potrzebowski, H.Maciejewski Functionalization of Spherosilicates via Hydrosilylation Catalyzed by well-defined RhodiumSiloxide Complexes Immobilized on Silica *J.Mol.Catal.,A*, 2014, 391, 150-157
41. M.Dutkiewicz, M.Szolyga, H.Maciejewski, B.Marciniak Thiirane Functional Spherosilicate as Epoxy Resin Modifier - synthesis and thermal stability *J.Thermal Anal and Calorimetry*, 2014, 117, 259-264
42. M.Majchrzak, M.Hybsz, S.Kostera, M.Kubicki, B. Marciniak Highly stereoselective synthesis of new steryl-?-conjugate organosilicon compounds *Tetrahedron Letters* 2014, 55, 3055-3058
43. I.Kownacki, B.Orwat, B.Marciniak, A.Kownacka New efficient route for the synthesis of alkynyl functionalized silicon derivatives *Tetrahedron Letters* 2014, 55, 548-550
44. M.Bayda, M.Ludwiczak, G.L.Hug, M.Majchrzak, B.Marciniak, B.Marciniak Intramolecular charge transfer photoemission of a silicon-based copolymer containing carbazole and divinylbenzene chromophores *Electron Transfer across silicon bridges Journal of Physical Chemistry A* 2014, 118, 4750-4758
45. B.Marciniak, A.Kownacka, I.Kownacki, M.Hoffman, R.Taylor Hydrosilylation cross-linking of silicon fluids by a novel class of iron(0) catalysts *Applied Catalysis*, 2014, 486, 230-238
46. Pyziak, M.Kubicki, B.Marciniak, Sz.Rogalski, C.Pietraszuk, D.Frackowiak The first ruthenium-silsesquioxyl complexes- synthesis, structure and mechanistic implications in silylative coupling *Dalton Transactions* 2014. 43, 7911-7916
47. M.Ludwiczaka, M. Majchrzaka, M. Bayda, B. Marciniaka, M. Kubicki, B.Marciniak Stereoselective Synthesis and Luminescence Properties of Novel trans-Regular N-AlkylCarbazolylene-Silylene-Vinylene Polymers *Journal of Organometallic Chemistry*, 2014, 750, 150-161
48. B.Marciniak, A. Kownacka, I. Kownacki, M. Kubicki, R. Taylor Synthesis and structure of well-defined tricarbonyl iron(0) complexes with multivinylsilicon ligands *Journal of Organometallic Chemistry*, 2014, 750, 132-139
49. M.Rzonsowska, B.Dudziec, I.Kownacki, B.Marciniak Iridium complex - catalyzed germylative coupling reactions between alkynes and iodogermanes - new route to alkynylgermanium and alkynylgermasilicon compounds *Dalton Transactions*, 2014, 43, 16795-16799
50. D.Frackowiak, J.Walkowiak, B.Marciniak Ru(0) catalyzed of vinylboranes with silanols, disilanol and disiloxanediols-selective route to borasiloxanes *European Journal of Inorganic Chemistry*, 2014, 3216-3220
51. P. Zak, B. Dudziec, M. Kubicki, B.Marciniak Silylative Coupling vs. Metathesis - Efficient Methods for Synthesis of Difunctionalized Double-Decker Silsesquioxanes and Precursors of Hybrid Nanomaterials *Chemistry - A European Journal*, 2014, 20, 9387-9393
52. I.Kownacki, B.Orwat, B.Marciniak Iridium-promoted Conversion of Chlorosilanes to Alkynyl Derivatives in one-pot Reaction Sequence *Organometallics* 2014, 33 (12), 3051-3059
53. A.Franczyk, H.He, J.Burdyńska, Ch.Hui, K.Matyjaszewski, B.Marciniak Synthesis of High Molecular Weight Polymethacrylates with POSS Moieties by ATRP *ACS Macro Letters*, 2014, 3, 799-802
54. B.Dudziec, M.Rzonsowska, I.Kownacki, B.Marciniak New Protocol for one-pot Synthesis of Functionalized Symmetrical 1,4-dialkyl- or 1,4-diaryl-1,3-diyne *Journal of Organometallic Chemistry*, 2015, 775, 20-26
55. C. Pietraszuk, P.Pawluc, B.Marciniak Metathesis of Silicon-Containing Olefins, Chapter 9 in *Handbook of Metathesis (Second Edition)*, R. H. Grubbs, D. J. O'Leary, Eds; VCH&ndash;Wiley, Weinheim, 2015, Vol. 2, pp.583-631.
56. B.Marciniak, S.Kostera, B.Wyrzykiewicz, P.Pawluc New ruthenium-catalyzed dealkenative N-silylation of amines by substituted vinylsilanes *Dalton*

- Transactions, 2015, 44, 782-786 57. J. Pyziak, J. Walkowiak, M. Hoffmann, B. Marciniak Mechanism of Co-dimerization of Vinylboronates with Terminal Alkynes Catalyzed by Ruthenium-hydride Complex J. Mol. Catal., A: Chemical, 2015, 396, 239-244 58. B. Marciniak, A. Kownacka, I. Kownacki, M. Hoffmann, R. Taylor Hydrosilylation vs. Dehydrogenative Silylation of styrene catalysed by iron(0) carbonyl complexes with multivinylsilicon ligands - mechanistic implications J. Organometal., Chem., 2015, 791, 58-65 59. H. Maciejewski, J. Karasiewicz, M. Dutkiewicz, B. Marciniak Hydrophobic materials based on fluorocarbofunctional spherosilicates Silicon 2015, 7, 201-209 60. K. Kucinski, P. Pawluc, B. Marciniak, G. Hreczycho Highly Selective Hydrothiolation of Unsaturated Organosilicon. Compounds Catalyzed by Scandium(III) Triflate Chemistry. A European Journal 2015, 21, 4940-4943 61. J. Pyziak, J. Walkowiak, M. Hoffmann, B. Marciniak A new catalytic route to borylgermyl substituted buta 1,3 dienes J. Organometal. Chem., 2015, 794, 96-103 62. D. Frackowiak, P. Żak, G. Spólnik, M. Pyziak, B. Marciniak New vinylgermanium derivatives of silsesquioxanes and their ruthenium complexes &ndash; synthesis, structure and reactivity Organometallics 2015, 34, 3950-3958 63. S. I. Paszkiewicz, R. Pilawka, B. Dudziec, M. Dutkiewicz, B. Marciniak, A. Kochmanska, R. Jedrzejewski, Z. Roslaniec, Morphology and phase separation in PTT-block-PTMO nanocomposites containing POSS particles European Polymer J. 2015, 70, 37-44 64. S. Alexandris, A. Franczyk, G. Papamokos, B. Marciniak, K. Matyjaszewski, K. Koynov, M. Mezger, G. Floudas Polymethacrylates with Polyhedral Oligomeric Silsesquioxane (POSS) Moieties: Influence of Spacer Length on Packing, Thermodynamics, and Dynamics Macromolecules 2015, 48, 3376-3385 65. J. Szudkowska-Frączak, B. Marciniak, G. Hreczycho, M. Kubicki, P. Pawluć, Ruthenium-Catalyzed Silylation of 1,3-Butadienes with Vinylsilanes Organic Letters, 2015, 17, 2366-2369 66. M. Rzonsowska; B. Woźniak; B. Dudziec; J. Pyziak; I. Kownacki, B. Marciniak A Simple Catalytic Route for Alkynylgermanes European J. Inorg. Chem., 2016, 339-346 67. P. Żak, M. Majchrzak, G. Wilkowski, B. Dudziec, M. Dutkiewicz, B. Marciniak Synthesis and Characterization of Functionalized Molecular and Macromolecular double-decker Silsesquioxane Systems RSC Advances, 2016, 6, 10054-10063 68. B. Dudziec, P. Żak, M. Dutkiewicz, A. Franczyk, B. Marciniak Synthesis of Functionalized Silsesquioxanes as Molecular Templates for Hybrid Materials in Efficient Methods for Preparing Silicon Compounds, ed. Herbert W. Roesky, Elsevier 2016, Chapter 10, 143-159 69. M. Zaranek, P. Pawluć, B. Marciniak Ruthenium-catalysed hydrosilylation of carbon-carbon multiple bonds Organic Chemistry Frontiers, 2016, 3, 1337-1344 70. A. Niemczyk, K. Dziubek, B. Sacher-Majewska, K. Czaja, M. Dutkiewicz, B. Marciniak Study of thermal properties of polyethylene and polypropylene nanocomposites with long alkyl chain-substituted POSS fillers Journal of Thermal Analysis Calorimetry, 2016, 125, 1287&ndash;1299 71. P. Żak, B. Dudziec, M. Dutkiewicz, M. Ludwiczak, B. Marciniak, M. Nowicki A New Class of Stereoregular Vinylene-arylene Copolymers with Double-decker Silsesquioxane in the Main Chain Journal of Polymer Science 2016, 54, 1044-1055 72. M. Majchrzak, S. Kostera, M. Grzelak, B. Marciniak, M. Kubicki An Efficient Catalytic Synthesis and Characterization of New styryl- ferrocenes and their trans- $\pi$ -conjugated Organosilicon Materials RSC Advances, 2016, 6, 39947-39954 73. M. Pochwała, M. Białek, A. Franczyk, B. Marciniak, K. Czaja 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 European Polymer Journal, 2016, 79, 121-131 74. P. Żak, D. Frackowiak, M. Grzelak, M., (...), M. Kubicki, B. Marciniak Olefin Metathesis of Vinylgermanium Derivatives as Method for the Synthesis of Functionalized Cubic and Double-Decker Germanesilsesquioxanes Advanced Synthesis and Catalysis 2016, 358, 3265-3276 75. M. Ludwiczak, M. Bayda, M. Dutkiewicz, (...), B. Marciniak, B. Marciniak New Arylene-Germylene-Vinylene Compounds: Stereoselective Synthesis, Characterization, and Photophysical Properties Organometallics, 2016, 35, 2454-2461 76. M. Rzonsowska, B. Dudziec, B. Marciniak Synthesis of a New class of Silsesquioxanes with Alkynyl and Germyl Functionality Dalton Transactions 2016, 45, 17187-17194 77. J. Pyziak, J. Walkowiak, B. Marciniak Recent Advances in Boron-Substituted 1,3-Dienes Chemistry: Synthesis and Application Chemistry - A European Journal (in press) 78. M. Majchrzak, M. Grzelak, B. Marciniak Synthesis of Novel Styryl-: N -Isopropyl-9 H -Carbazoles for Designing trans-Conjugated Regular Silicon Hybrid Materials Organic and Biomolecular Chemistry 2016, 14, 9406-9415 79. A. Franczyk, K. Stefanowska, M. Dutkiewicz, D. Frackowiak, B. Marciniak A Highly Selective Synthesis of New Alkenylsilsesquioxanes by Hydrosilylation of Alkynes Dalton Transactions 2016, 46, 158-164