

Publikacje:

## 2016

36. "Mechanochemical Encapsulation of Fullerenes in Peptidic Containers Prepared by Dynamic Chiral Self-Sorting and Self-Assembly"

M. Szymański, M. Wierzbicki, M. Gilski, H. Jędrzejewska, M. Sztylko, P. Cmoch, A. Shkurenko, M. Jaskólski, A. Szumna, *Chem. Eur. J.*, 2016, **22**, 3148 – 3155

[DOI:10.1002/chem.201504451](https://doi.org/10.1002/chem.201504451)

35. "Inherently chiral heterocyclic resorcinarenes using a Diels–Alder reaction"

W. Iwanek, K. Stefańska, A. Szumna, M. Wierzbicki, *RSC Adv.*, 2016, **6**, 13027 – 13031

[DOI:10.1039/C5RA26106F](https://doi.org/10.1039/C5RA26106F)

34. "Synthesis of resorcinarene phosphonium salts and the effect of counteranion on their structure"

W. Iwanek, K. Stefańska, A. Szumna, M. Wierzbicki, *Tetrahedron*, 2016, **72**, 142 – 147

[DOI:10.1016/j.tet.2015.11.015](https://doi.org/10.1016/j.tet.2015.11.015)

## 2015

33. "Switching of inherent chirality driven by self-assembly"

H. Jędrzejewska, M. Kwit,, A. Szumna, *Chem. Commun.*, 2015, **51**, 13799 – 13801

[DOI:10.1039/c5cc05728k](https://doi.org/10.1039/c5cc05728k)

32. "New triazole appended tert-butyl calix[4]arene conjugates: synthesis, Hg<sup>2+</sup> binding studies"

R. Rusu, A. Szumna, N. Rosu, C. Dumea, R. Danac, *Tetrahedron*, 2015, **71**, 2922 – 2926

[DOI:10.1016/j.tet.2015.03.060](https://doi.org/10.1016/j.tet.2015.03.060)

31. "Solvent-free synthesis and structure of 2-naphthol derivatives of resorcinarenes"

W. Iwanek, K. Stefańska, A. Szumna, M. Wierzbicki, *Tetrahedron*, 2015, **71**, 2222 – 2225

[DOI:10.1016/j.tet.2015.02.084](https://doi.org/10.1016/j.tet.2015.02.084)

30. "Hybrid [n]Arenes through Thermodynamically Driven Macrocyclization Reactions"

T. Boinski, A. Cieszkowski, B. Rosa, A. Szumna, *J. Org. Chem.*, 2015, **80**, 3488 – 3495

[DOI:10.1021/acs.joc.5b00099](https://doi.org/10.1021/acs.joc.5b00099)

29. "Concomitant polymorphs of p-iso-propylcalix[4]arene"

V. J. Smith, C. G. Marais, K. Suwińska, J. Lipkowski, A. Szumna, C. Esterhuysena, L. J. Barbour, *CrystEngComm*, 2015, **17**, 5129 – 5133

[DOI: 10.1039/C5CE00362H](https://doi.org/10.1039/C5CE00362H)

## 2014

28. "Dynamic Formation of Hybrid Peptidic Capsules by Chiral Self-sorting and Self-assembly"

H. Jędrzejewska, M. Wierzbicki, P. Cmoch, K. Rissanen, A. Szumna, *Angew. Chem. Int. Ed.*, 2014, **53**, 13760 – 13764

[DOI:10.1002/anie.201407802](https://doi.org/10.1002/anie.201407802)

27. "Experiences with applications of macromolecular tools in supramolecular crystallography"  
M. Wierzbicki, M. Gilski, K. Rissanen, M. Jaskólski, A. Szumna, *CrystEngComm*, 2014, **16**, 3773 – 3780.  
[DOI: 10.1039/C3CE42288G](https://doi.org/10.1039/C3CE42288G)

## 2013

26. "Inherently Chiral Iminoresorcinarenes through Regioselective Unidirectional Tautomerization"  
M. Grajda, M. Wierzbicki, P. Cmoch, A. Szumna, *J. Org. Chem.*, 2013, **78**, 11597 – 11601.  
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25. "Assembly-driven synthesis of hybrid molecular capsules controlled by chiral sorting"  
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[DOI:10.1039/C3CC41515E](https://doi.org/10.1039/C3CC41515E)

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T. Boinski, A. Szumna, *Tetrahedron*, 2012, **68**, 9419 – 9422.  
[DOI:10.1016/j.tet.2012.09.006](https://doi.org/10.1016/j.tet.2012.09.006)

## 2010

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A. Szumna, *Chem. Soc. Rev.*, 2010, **39**, 4274 – 4285.  
[DOI: 10.1039/b919527k](https://doi.org/10.1039/b919527k)

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A. Szumna, *Chem. Eur. J.*, 2009, **15**, 12381 – 12388.  
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A. Szumna, *Chem. Commun.*, 2009, 4191 – 4193.  
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B. Kuberski, A. Szumna, *Chem. Commun.*, 2009, 1959 – 1961.  
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19. "A chiral "frozen" hydrogen bonding in C<sub>4</sub>-symmetric inherently chiral resorcin[4]arenes: NMR, X-ray, circular dichroism, and theoretical study"  
B. Kuberski, M. Pecul, A. Szumna, *Eur. J. Org. Chem.*, 2008, 3069 – 3078.  
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A. Szumna, *Org. Biomol. Chem.*, 2007, **5**, 1358 – 1368.

[DOI: 10.1039/b701451a](https://doi.org/10.1039/b701451a)

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17. "Diastereoselective formation of cyclochiral amino acids' substituted resorcin[4]arenes"

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A. Szumna, M. Achmatowicz, T. Zieliński, J. Jurczak, *Polyhedron*, 2005, **24**, 2981 – 2987.

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A. Kovalchuk, J. L. Bricks, G. Reck, K. Rurack, B. Schulz, A. Szumna, H. Weisshoff, *Chem. Commun.*, 2004, 1946 – 1947.

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13. "Anion induced conformational switch of a macrocyclic amide receptor"

M. J. Chmielewski, A. Szumna, J. Jurczak, *Tetrahedron Lett.*, 2004, **45**, 8699 – 8703.

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12. "A new strategy for the synthesis of pendant benzodiazacoronands and their use as components of chromatographic stationary phases"

P. Piątek, D. T. Gryko, A. Szumna, J. Jurczak, *Tetrahedron*, 2004, **60**, 5769 – 5776.

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J. L. Atwood, A. Szumna, *J. Am. Chem. Soc.*, 2002, **124**, 10646 – 10647.

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9. "Cation –pi interactions in neutral calix[4]resorcinarenes"  
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8. "The synthesis and structure of macrocyclic pyridinophanes - Potential anion receptors"  
A. Szumna, D. T. Gryko, J. Jurczak, *Heterocycles*, 2002, **56**, 361 – 368.

## 2001

7. "Unusual encapsulation of two anions in the cavity of neutral macrocyclic octalactam - Preliminary communication"  
A. Szumna, J. Jurczak, *Helv. Chim. Acta.*, 2001, **84**, 3760 – 3765.  
[DOI: 10.1002/1522-2675\(20011219\)84:12<3760::AID-HLCA3760>3.0.CO;2-Y](https://doi.org/10.1002/1522-2675(20011219)84:12<3760::AID-HLCA3760>3.0.CO;2-Y)

6. "A new macrocyclic polylactam-type neutral receptor for anions - Structural aspects of anion recognition"  
A. Szumna, J. Jurczak, *Eur. J. Org. Chem.*, 2001, 4031 – 4039.  
[DOI: 10.1002/1099-0690\(200111\)2001:21<4031::AID-EJOC4031>3.0.CO;2-9](https://doi.org/10.1002/1099-0690(200111)2001:21<4031::AID-EJOC4031>3.0.CO;2-9)

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5. "Calcium complexes of macrocyclic lactams: their structure and calcium induced conformational changes"  
A. Szumna, D. T. Gryko, J. Jurczak, *J. Chem. Soc. Perk. Trans. 2*, 2000, 1553 – 1558.  
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4. "H-1, C-13, N-15 NMR and X-ray diffractometry in structural studies of macrocyclic lactams containing pyridine moiety"  
D. T. Gryko, A. Pęczak, W. Koźminski, P. Piątek, J. Jurczak, *Supramol. Chem., Sp. Iss. SI*, 2000, **12**, 229 – 235.  
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3. "Competition between pi-pi stacking and hydrogen bonding in (1 : 2) picrates of 1,5-diamino-3-oxapentane, 1,8-diamino-3,6-dioxaoctane and 1,5-diamino-3-azapentane - solid state studies"  
A. Szumna, J. Jurczak, Z. Urbanczyk-Lipkowska, *J. Mol. Struct.*, 2000, **526**, 165 – 175.  
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R. Pajewski, A. Pęczak, R. Ostaszewski, J. Jurczak, *Acta Cryst. Sect. C.*, 1999, **55**, 1862 – 1864.  
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## 1998

1. "Synthetic and crystallographic studies on pyridinophanes"  
D. T. Gryko, P. Piątek, A. Pęczak, M. Pałys, J. Jurczak, *Tetrahedron*, 1998, **54**, 7505 – 7516.  
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