

Цитирания на трудове на доц. Ваня Куртева

Брой цитати		h-фактор
общо	2008-2017	
467	425	11

Справка за разпределението на цитиранията на трудове на доц. Ваня Куртева

- Цитирания в международни издания, вкл. патенти, книги и поредици – 391 бр., от които 351 бр. след 2007 г.
- Цитирания в национални издания – 1 бр., от които 1 бр. след 2007 г.
- Цитирания в дисертации в чужбина – 75 бр., от които 73 бр. след 2007 г.

V. Dimitrov, V. Kurteva, M. Lyapova, B. Mikhova, I. Pojarlieff, Diastereoisomers with three neighbouring phenyl groups. Part 11. Hindered phenyl and formylmethylamino group rotations in 3-(formylmethylamino)-1,2,3-triphenylpropyl chlorides, *Magn. Reson. Chem.* **1988**, *26*, 564-570.

1. P. M. Ivanov, T. Momchilova, Computational test for the performance of the improved MM2 aromatic force-field, *J. Mol. Struct.-THEOCHEM* **1991**, *233*, 115-128.

V. Kurteva, M. Lyapova, I. Pojarlieff, Stereochemistry of 1-tosyl-2,3,4-triphenylazetidine formation upon solvolysis of 3-tosylamino-1,2,3-triphenylpropyl chlorides or methanesulfonate, *J. Chem. Res. (S)* **1993**, 270-271.

2. T. Axenrod, C. Watnick, H. Yazdekhasti, Synthesis of 1,3,3-trinitroazetidine via the oxidative nitrolysis of N-p-tosyl-3-azetidinone oxime, *J. Org. Chem.* **1995**, *60*, 1959-1964.
3. J. Shorter, Nucleophilic Aliphatic Substitution, In *Organic Reaction Mechanisms 1993, Organic Reaction Mechanisms Series*, A. C. Knipe, W. E. Watts, Eds.; John Wiley & Sons Ltd., **1995**, Chapter 10, pp. 263-295.

4. J. Barluenga, F. Fernandez-Marí, A. L. Viado, E. Aguilar, B. Olano, Diastereospecific synthesis of enantiomerically pure polysubstituted azetidines from 1,3-amino alcohols with three chiral centers, *J. Org. Chem.* **1996**, *61*, 5659-5662.
5. P. M. Ivanov, The torsional energy profile of 1,2-diphenylethane: an ab initio study *J. Mol. Structure* **1997**, *415*, 179-186.

M. Ivanova, V. Kurteva, M. Lyapova, A convenient synthesis of 3-(2-methyl-pyridyl)-acetic acid methyl ester, a Pyritiamine intermediate, *Organic Preparations and Procedures Int. (Oppi Briefs)* **1994**, *26*, 549-551.

6. L. Chen, E. Cressina, N. Dixon, K. Erixon, K. Agyei-Owusu, J. Micklefield, A. G. Smith, C. Abell, F. J. Leeper, Probing riboswitch-ligand interactions using thiamine pyrophosphate analogues, *Org. Biomol. Chem.* **2012**, *10*, 5924-5931; Supplementary Information.

M. Ivanova, V. Kurteva, M. Lyapova, I. Pojarlieff, Unusual azetidine or oxazine formation upon reaction of O-ethyl dithiocarbonate with 1,2,3-triphenyl-3-phthalimidopropyl Iodides; erythro selectivity in the reaction of iodotrimethyl silane with phthalimidopropanols, *J. Chem. Res.(S)* **1998**, 658-659.

7. M. Sako, T. Kihara, K. Okada, Y. Ohtani, H. Kawamoto, Reductive cleavage of heteroaryl C-halogen bonds by iodotrimethylsilane. Facile and regioselective dechlorination of antibiotic pyrrolnitrin, *J. Org. Chem.* **2001**, *66*, 3610-3612.
8. A. Brandi, S. Cicchi, F. M. Cordero, Novel syntheses of azetidines and azetidinones, *Chem. Rev.* **2008**, *108*, 3988-4035.
9. Ervin Kovács, PhD thesis, Királis négy - és öttagú heterociklusok sztereoszelektív szintézise és reakcióinak vizsgálata, **2015**, BME Szerves Kémia és Technológia tanszék, Budapest, Hungary.

A. Tsoutsoulova-Draganova, N. Halatcheva, V. Kurteva, D. Carova, A. Andreeva, M. Anguelova, Screening of the “black marked” drug Carphedon, In *Recent Advances in Doping Analysis*, Eds. W. Schänzer, H. Geyer, A. Gotzmann, U. Mareck-Engelke, Proceedings of the Manfred Donike Workshop, 16 Cologne Workshop on Dope Analysis, 15th to 20th March 1998; Verlag Sport und Buch Strauß, Köln, **1999**, Vol. 6, 475-482.

10. J. Patočka, Carphedon - Nootropic or psychostimulant drug? (Review) [Karfedon - Nootropikum nebo psychostimulancium?], *Psychiatrie* **2012**, 16, 97-100.

V. Kurteva, M. Lyapova, Conformations of 4,5,6-Triphenyl-tetrahydro-1,3-thiazine-2-thiones and their N-alkyl derivatives. Unusual thiazine thione or azetidine formation upon reaction of 3-amino- and 3-methylamino-1,2,3-triphenylpropyl chlorides with potassium ethylxanthate, *Phosphorus, Sulfur and Silicon* **2000**, 161, 239-249.

11. K. Kamienska-Trela, J. Wojcik, Applications of spin-spin couplings, In *Nuclear Magnetic Resonance*, G. A. Webb, Ed.; The Royal Society of Chemistry, **2002**, Vol. 31, 144-191.
12. E. Kleinpeter, Conformational analysis of saturated heterocyclic six-membered rings, In *Advances in Heterocyclic Chemistry*, A. R. Katritzky, Ed.; Elsevier Inc., **2004**, Vol. 86, 41-127.

V. Kurteva, S. Simova, Determination of the diastereoisomeric purity of D,L- and meso-HM-PAO by ¹³C NMR spectroscopy, *Eur. J. Med. Chem.* **2003**, 38, 219-222.

13. M. Pizzonero, L. Keller, F. Dumas, M. Ourevitch, G. Morgant, A. Spasojevic de Bire, G. Bogdanovic, N. Eddine Ghermani, J. d'Angelo, Crystallographic/experimental electron density characterizations and reactions with nucleophiles of beta-enaminonitriles possessing a pyrrolobenzazepine core, *J. Org. Chem.* **2004**, 69, 4336-4350.

V. Kurteva, A. G. Santos, C. Afonso, Microwave accelerated facile synthesis of fused polynuclear hydrocarbons in dry media by intramolecular Friedel-Crafts alkylation, *Org. Biomol. Chem.* **2004**, 2, 514-523.

14. C. M. Grise, L. Barriault, Gold-catalyzed synthesis of substituted tetrahydronaphthalenes, *Org. Lett.* **2006**, 8, 5905-5908.
15. S. Santra, P. R. Andreana, A one-pot, microwave-influenced synthesis of diverse small molecules by multicomponent reaction cascades, *Org. Lett.* **2007**, 9, 5035-5038.
16. V. N. Korotchenko, M. R. Gagné, Palladium-catalyzed cyclization of 1,ω-dienols: multiple ways to intramolecularly trap a carbocation, *J. Org. Chem.* **2007**, 72, 4877-4881.
17. C. M. Grisé, E. M. Rodrigue, L. Barriault, Gold(I)-catalyzed benzannulation of 3-hydroxy-1,5-enynes: an efficient synthesis of substituted tetrahydronaphthalenes and related compounds, *Tetrahedron* **2008**, 64, 797-808.
18. Z. Zhen, M. Yuan, Z. Yufen, Microwave-assisted Friedel-Crafts reactions, *Progress in Chemistry* **2008**, 20, 312-317.
19. A. Smahi, A. Solhy, R. Tahir, S. Sebti, J. A. Mayoral, J. I. García, J. M. Fraile, M. Zahouily, Preparation of α -hydroxyphosphonates over phosphate catalysts, *Catal. Commun.* **2008**, 9, 2503-2508.
20. H. Kawai, Y. Kobayashi, S. Oi, Y. Inoue, Direct C–H bond arylation of arenes with aryltin reagents catalysed by palladium complexes, *Chem. Commun.* **2008**, 1464-1466.
21. Y. Li, L. Huang, D.-z. Zhang, W.-c. Tao, Study on microwave assisted synthesis of n-butyl cinnamate catalyzed by macroporous resin, *China Surfactant Deterg. Cosmet.* **2008**, 38, 42-44.
22. Maxime Riou Ph. D. thesis, Prins-Pinacol Synthesis of Bicyclo[3.3.1]nonanones and Application towards the Total Synthesis of Papuaforin A, **2008**, Ottawa-Carleton Chemistry Institute, University of Ottawa, Canada.
23. W. Huang, L. Hong, P. Zheng, R. Liu, X. Zhou, Highly efficient synthesis of functionalized dihydronaphthalenes, tetrahydronaphthalenes, and

- tetrahydroisoquinolines by iron-catalyzed intramolecular Friedel–Crafts reaction of aryl-containing propargylic alcohols, *Tetrahedron* **2009**, *65*, 3603-3610.
- 24. D. L. J. Clive, M. P. Pham, Conversion of weinreb amides into benzene rings incorporating the amide carbonyl carbon, *J. Org. Chem.* **2009**, *74*, 1685-1690.
 - 25. K. Tanaka, Y. Sawada, Y. Aida, M. Thammathevo, R. Tanaka, H. Sagae, Y. Otake, Rhodium-catalyzed convenient synthesis of functionalized tetrahydronaphthalenes, *Tetrahedron* **2010**, *66*, 1563-1539.
 - 26. K. Balamurugan, M. Bhama, V. Sridar, Photo-Fris rearrangement of naphthalene-1,5-diyl bis(4-chlorobutanoate): exclusive and regioselective mono-rearrangement, *Indian J. Chem., Sect. B: Org. Chem. Incl. Med. Chem.* **2010**, *49B*, 251-252.
 - 27. R. Hayashi, G. R. Cook, Friedel-Crafts type cyclizations, In *Handbook of Cyclization Reactions*, S. Ma, Ed., Wiley-VCH Verlag GmbH & Co, Weinheim, **2010**, Vol. 2, pp. 1025-1054.
 - 28. Z. A. Khan, M. Iwaoka, T. Wirth, Novel cyclization cascades to functionalized indanes and tetrahydronaphthalenes, *Tetrahedron* **2010**, *66*, 6639-6646.
 - 29. A. Solhy, S. Sebti, R. Tahir, J. Sebti, M. Ould Abba, M. Bousmina, S. Vaudreuil, M. Zahouily, Remarkable catalytic activity of sodium-modified-hydroxyapatite in the synthesis of α -hydroxyphosphonates, *Curr. Org. Chem.* **2010**, *14*, 1517-1522.
 - 30. A. Valavanidis, Th. Vlachogianni and K. Fiotakis, Laboratory experiments of organic synthesis and decomposition of hazardous environmental chemicals following green chemistry principles, *Science Advances on Environment, Toxicology & Ecotoxicology* issues October 6, 2010; www.chem-tox-ecotox.org.
 - 31. Sabyasachi Bhunia, Ph. D. thesis, Discovery of New Carbocyclizations Involving Activation of C–C Multiple Bonds by Electrophilic Noble Metals, **2010**, Bengal College of Engineering and Technology.
 - 32. Zulfiqar Ali Khan, Ph. D. thesis, Novel Iodine Mediated Carbocyclisations and Hypervalent Iodine(III) Reagents, **2010**, Cardiff University, UK.
 - 33. M. A. Francisco, R. Garcia, B. Chawla, C. Yung, K. Qian, K. E. Edwards, L. A. Green, Syntheses of alkylated aromatic model compounds to facilitate mass

- spectral characterization of heavy oils, resids, and bitumens, *Energy Fuels* **2011**, 25, 4600-4605.
- 34. Vimal Parekh, Ph. D. thesis, Asymmetric Transfer Hydrogenation Reductions Using Tethered Ruthenium (II) Catalysts, **2011**, University of Warwick, UK.
 - 35. H. Li, W. Yuan, X. Wang, B. Chen, Y. Cheng, Z. Xie, L. Wang, Synthesis and spectroscopic properties of Pt(II) complexes based on 2-phenylisoquinoline and its derivatives, *Chinese J. Appl. Chem.* **2012**, 29, 1148-1157.
 - 36. D. A. Roa, J. M. Urbina, Obtención de 2-Fenil lepidinas durante la alquilación de Friedel-Crafts asistida por microondas de *N*-(α -alilbencil) anilinas soportadas en sílica-ácido sulfuric (2-Phenyl lepidines preparation through microwave assisted Friedel-Crafts alkylation of *N*-(α -allylbenzyl) anilines supported on silica-sulfuric acid), *Ingeniería y Competitividad* **2013**, 15, 71-77.
 - 37. L. Zimmermann, A. Bussière, M. M. Ouberai, I. baussanne, C. Jolivalt, J.-L. Decout, M.-P. Mingeot-Leclercq, Tuning the antibacterial activity of amphiphilic neamine derivatives, comparison to paromamine homologues, *J. Med. Chem.* **2013**, 56, 7691-7705.
 - 38. K. K. Ranawat, S. Singh, G. P. Singh, V. Bhatt, An efficient microwave irradiated, facile, one pot synthesis of anthracene derivatives, *World J. Pharm. Pharm. Sci.* **2014**, 3, 346-349.
 - 39. X. Sheng, Y. Wang, Y. Qin, X. Wang, F. Wang, Aluminum porphyrin complexes via delicate ligand design: Emerging efficient catalysts for high molecular weight poly(propylene carbonate), *RSC Adv.* **2014**, 4, 54043-54050.
 - 40. Xiaoyun Chen, Ph. D. thesis, The synthesis of bioactive sulfoximines and *N*-alkynylated sulfoximines, **2014**, Aachen University, Germany.
 - 41. Samikannu Ramesh, Ph. D. thesis, Development of new greener methodologies towards the synthesis of biologically important cyano and hetero aromatic building, **2014**, Periyar University, India.
 - 42. H. Li, W. Yuan, X. Wang, H. Zhan, Z. Xie, Y. Cheng, Enhancement of luminescence performance from the alteration of stacking patterns of Pt(II) dendrimers, *J. Mater. Chem. C* **2015**, 3, 2744-2750.

43. X. Sheng, W. Wu, Y. Qin, X. Wang, F. Wang, Efficient synthesis and stabilization of poly(propylene carbonate) from delicately designed bifunctional aluminum porphyrin complex, *Polym. Chem.* **2015**, *6*, 4719-4724.
- V. Kurteva, C. Afonso, Solvent-free synthesis of melamines under microwave irradiation, *Green Chem.* **2004**, *6*, 183-187.
44. S. C. Ameta, S. Mehta, A. Sancheti, J. Vardia, Green chemical pathways: a need of the day, *J. Indian Chem. Soc.* **2004**, *81*, 1127-1140.
45. Á. Díaz-Ortiz, J. Elguero, A. de la Hoz, A. Jiménez, A. Moreno, S. Moreno, A. Sánchez-Migallón, Microwave-assisted synthesis and dynamic behaviour of N^2,N^4,N^6 -tris(1*H*-pyrazolyl)-1,3,5-triazine-2,4,6-triamines, *QSAR & Combinatorial Science* **2005**, *24*, 649-659.
46. Q. Liu, S. Zhang, B. Wu, J. Guo, J. Xie, M. Gu, Y. Zhao, L. Yun, K. Liu, Chiral melamine derivatives: design, synthesis, and application to Mass spectrometry-based chiral analysis, *Anal. Chem.* **2005**, *77*, 5302-5310.
47. A. F. Finch, *Theilheimer's Synthetic Methods of Organic Chemistry*, S Karger Pub., Basel, **2005**.
48. S. Al-Mousawi, A.-Z. Elassar, M. A. El-Apasery, A microwave assisted diazo coupling reaction: The synthesis of alkylazines and thienopyridazines, *Phosphorus, Sulfur and Silicon* **2006**, *181*, 1755-1771.
49. J. P. Bazureau, J. Hamelin, F. Mongin, F. Texier-Boullet, Microwaves in Heterocyclic Chemistry, In *Microwaves in Organic Synthesis* (Second Edition), A. Loupy, Ed.; WILEY-VCH Verlag GmbH, **2006**, Chapter 10, pp. 456-523.
50. B. S. R. Reddy, R. Kamakshi, Microwave assisted organic reactions in dry media - a review, *Organic Chemistry: An Indian Journal* **2006**, *2*, 32-45.
51. M. A. El-Apasery, Synthesis of some azo disperse dyes by the use of focused microwave heating, *Polish J. Appl. Chem.* **2006**, *50*, 75-81.
52. M. A. El-Apasery, Solvent-free one-pot synthesis of some azo disperse dyes under microwave irradiation: Dyeing of polyester fabrics, *J. Appl. Polym. Sci.* **2008**, *109*, 695-699.

53. K. A. Kolmakov, Selective modification of bifunctional heterocyclic compounds containing amino and thioamide groups in acetic acid medium, *J. Heteroc. Chem.* **2008**, *45*, 1215-1220.
54. S. K. Sharma, A. Chaudhary, R. V. Singh, Gray chemistry versus green chemistry: challenges and opportunities, *Rasāyan J. Chem.* **2008**, *1*, 68-92.
55. N. A. Salih, H. A. El-Latif Ibraheem, A new derivatives of benzodiazepine, imidazole, isatin, maleimide, pyrimidine and 1,2,4-triazole: synthesis and characterization, *Um-Salama Sci. J.* **2008**, *5*, 305-312.
56. Lawrence Richard Levinson, Ph. D. thesis, Nitrogen-bearing toxins & the environment food-safety monitoring systems for the quality assurance of vegetable protein products, Ryerson University, Toronto, Ontario, Canada, **2008**.
57. C. Gómez de la Oliva, P. Goya Laza, C. Ochoa de Ocariz, Six-membered heterocycles: triazines, tetrazines and other polyaza systems, in *Modern Heterocyclic Chemistry*, J. Alvarez-Builla, J. J. Vaquero, J. Barluenga, Eds.; Wiley-VCH Verlag GmbH & Co. KGaA, Weinheim, Germany; **2011**, Chapter 20, pp. 1777-1864.
58. N. Kumar, S. I. Khan, D. S. Rawat, Synthesis and antimalarial-activity evaluation of tetraoxane - triazine hybrids and spiro[piperidine-4,3'-tetraoxanes, *Helv. Chim. Acta* **2012**, *95*, 1181-1197.
59. Z.-P. Zhan, Q.-Z. Chen, Z.-C. Ding, Y.-L. Ma, Z.-D. Wang, Microwave-assisted synthesis of 2-aminopyrimidines from silica gel-adsorbed propargyl alcohols and guanidine, *Heterocycles* **2012**, *85*, 1891-1896.
60. D. Kumar, S. I. Khan, P. Ponnan, D. S. Rawat, Triazine-pyrimidine based molecular hybrids: synthesis, docking studies and evaluation of antimalarial activity, *New J. Chem.* **2014**, *38*, 5087-5095.
61. S. N. Khattab, H. H. Khalil, A. A. Bekhit, M. M. A. El-Rahman, A. El-Faham, F. Albericio, Synthesis and preliminary biological evaluation of 1,3,5-triazine amino acid derivatives to study their MAO inhibitors, *Molecules* **2015**, *20*, 15976-15988.
62. Mohammed M. Hasson, Ph. D. thesis, Triazine based N-heterocyclic carbenes - synthesis, coordination and catalysis, **2015**, Cardiff University, UK.

63. A. Ahmadi, M. Khalili, S. Samavat, E. Shahbazi, B. Nahri-Niknafs, Synthesis and evaluation of the hypoglycemic and hypolipidemic activity of novel arylidene thiazolidinedione analogs on a type 2 diabetes model, *Pharm. Chem. J.* **2016**, *50*, 165-171.

V. Kurteva, M. Lyapova, Synthesis of a series of vicinal diamines with potential biological activity, *Cent. Eur. J. Chem.* **2004**, *2*, 686-695.

64. E. Ertürk, A. S. Demir, Iron(III) trifluoroacetate $[\text{Fe}(\text{O}_2\text{CCF}_3)_3]$ catalyzed epoxide opening with amines, *Arkivoc* **2008** (ii), 160-171.

65. E. B. Villhauer, W.-C. Shieh, Z. Du, K. Vargas, L. Ciszewski, Y. Lu, M. Girgis, M. Lin, M. Prashad, Facile and practical synthesis of a cannabinoid-1 antagonist via regio- and stereoselective ring-opening of an aziridinium ion, *Tetrahedron* **2009**, *65*, 9067-9074.

66. A. J. Lopes Jesus, J. S. Redinha, Conformational study of charged cyclohexyldiamines and their gas phase acid-base properties, *Struct. Chem.* **2011**, *22*, 999-1006.

67. K. Eichstaedt, Methods for the synthesis of 2,2'-bipyrrolidine (Metody syntezy 2,2'-bipirolidyny), *Wiadomości Chemiczne* **2012**, *66*, 461-483.

68. T. Chimsook, N. Sianglek, Cytotoxic activity study of rotenoid derivatives, *Maejo University Annual Conference*, Chiang Mai, Thailand, **2013**, lecture 1, pp. 51.

V. Kurteva, C. Afonso, A direct intramolecular asymmetric catalytic aldol cyclodehydration of meso-3,4-disubstituted-1,6-dialdehydes, *Tetrahedron* **2005**, *61*, 267-273.

69. D. E. Ward, V. Jheengut, O. T. Akinnusi, Enantioselective direct intermolecular aldol reactions with enantiotopic group selectivity and dynamic kinetic resolution, *Org. Lett.* **2005**, *7*, 1181-1184.

70. N. Itagaki, M. Kimura, T. Sugahara, Y. Iwabuchi, Organocatalytic entry to chiral bicyclo[3.n.1]alkanones via direct asymmetric intramolecular aldolization, *Org. Lett.* **2005**, 7, 4185-4188.
71. B. Alcaide, P. Almendros, Four-membered ring systems, In *Progress in Heterocyclic Chemistry*, G. W. Gribble, J. Joule, Eds.; Elsevier Ltd., **2007**, Vol. 18, Chapter 4, 106-125.
72. H. Pellissier, Asymmetric organocatalysis, *Tetrahedron* **2007**, 63, 9267-9331.
73. G. Guillena, C. Nájera, D. J. Ramón, Enantioselective direct aldol reaction: the blossoming of modern organocatalysis, *Tetrahedron: Asymmetry* **2007**, 18, 2249-2293.
74. S. Mukherjee, J. W. Yang, S. Hoffmann, B. List, Asymmetric enamine catalysis, *Chem. Rev.* **2007**, 107, 5471-5569.
75. Vishal Jheengut, Ph. D. thesis, **2007**, Thiopyran route to polypropionates: Proline catalyzed aldol reactions of Tetrahydro-4*h*-thiopyran-4-one, University of Saskatchewan, Canada.
76. H. Kotsuki, H. Ikushima, A. Okuyama, Organocatalytic asymmetric synthesis using proline and related molecules. Part 1, *Heterocycles* **2008**, 75, 493-529.
77. F. J. S. Duarte, E. J. Cabrita, G. Frenking, A. G. Santos, Mechanistic study of intramolecular aldol reactions of dialdehydes, *Eur. J. Org. Chem.* **2008**, 3397–3402.
78. B. A. Murray, Reactions of aldehydes and ketones and their derivatives, In *Organic Reaction Mechanisms 2005, Organic Reaction Mechanisms Series*, A. C. Knipe, W. E. Watts, Eds.; John Wiley & Sons Ltd., **2008**, Chapter 1, pp. 1-46.
79. Hui Xu, Ph. D. thesis, **2008**, Beijing National Laboratory for Molecular Sciences (BNLMS), Institute of Chemistry, Chinese Academy of Sciences, Beijing, China.
80. J. T. B. Kueh, P. D. O'Connor, H. Hügelb, M. A. Brimble, Synthetic studies towards the anti-inflammatory agent, oleocanthal using a Johnson–Claisen (orthoester) rearrangement strategy, *Arkivoc* **2009** (vii), 58-71.

81. S. G. Zlotin, A. S. Kucherenko, I. P. Beletskaya, Organocatalysis of asymmetric aldol reaction. *Catalysts and reagents, Russ. Chem. Rev.* **2009**, *78*, 737–784; С. Г. Злотин, А. С. Кучеренко, И. П. Белецкая, Органический катализ асимметрической альдольной реакции. Катализаторы и реагенты, *Успехи химии* **2009**, *78*, 796-845.
82. F. J. S. Duarte, E. J. Cabrita, G. Frenking, A. Gil Santos, Asymmetric Intramolecular Aldol Reactions of Substituted 1,7-Dicarbonylic Compounds. A Mechanistic Study, *J. Org. Chem.* **2010**, *75*, 2546-2555.
83. Florian Sebastian Boeck, Ph. D. thesis, Zur asymmetrischen Synthese von Vaginidiol, Smyrindiol und Euonidiol, sowie über die stereoselektive Synthese von 2,3-Dihydroindol- und 2,3-Dihydrobenzofuran-Derivaten, **2010**, RWTH Aachen University, Germany.
84. Santiago Fidel Viózquez Cámara, Ph. D. thesis, BINAM-prolinamidas como organocatalizadores en síntesis asimétrica, **2010**, Universidad de Alicante, Spain.
85. A. Moyano, R. Rios, Asymmetric organocatalytic cyclization and cycloaddition reactions, *Chem. Rev.* **2011**, *111*, 4703-4832.
86. Q. Zhao, X. Han, Y. Wei, M. Shi, Y. Lu, Asymmetric [3+2] annulation of allenes with maleimides catalyzed by dipeptide-derived phosphines: Facile creation of functionalized bicyclic cyclopentenes containing two tertiary stereogenic centers, *Chem. Commun.* **2012**, *48*, 970-972.
87. T. Hayashi, M. M. Hossain, A. K. Saha, A.-C. Gaumont, O. Delacroix, (*R*)-*N,N*-Dimethyl-1-[*(S*)-2-(diphenylphosphino)ferrocenyl]ethylamine, *Encyclopedia of Reagents for Organic Synthesis* (e-EROS), 2012, John Wiley & Sons, Ltd.
88. V. Bisai, A. Bisai, V. K. Singh, Enantioselective organocatalytic aldol reaction using small organic molecules, *Tetrahedron* **2012**, *68*, 4541-4580.
89. M. K. Georgieva, F. J. S. Duarte, M. V. B. Queirós, A. Gil Santos, Catalytic asymmetric 5-enolexo aldolizations. A computational study, *J. Org. Chem.* **2012**, *77*, 5569-5576.

90. G. Guillena, Organocatalyzed aldol reactions, In *Modern Methods in Stereoselective Aldol Reactions*, Ed. R. Mahrwald, Wiley-VCH Verlag GmbH & Co. KGaA, Weinheim, Germany, **2013**, Chapter 3, 155-268.
91. C. C. Weng, X. Xu, X. X. Xiong, X. L. Lu, Y. F. Zhou, Telaprevir fragments as organocatalysts in asymmetric direct aldol reactions of aldehydes, *Russ. J. Gen. Chem.* **2013**, 83, 2447-2452.
92. R.-s. Luo, L. Xie, J.-h. Liao, J. Zhang, Synthesis and characterization of novel indole chiral amino alcohols, *Chem. Reagents* **2014**, 36, paper 0626.
93. Fernando Javier Navarro Moles, Ph. D. thesis, Reacciones aldólicas enantioselectivas con α -oxoaldehídos organocatalizadas por prolinamidas derivadas de BINAM, **2014**, Universidad de Alicante, Spain.
94. Nevin Arslan, Ph. D. thesis, Pirolin temelli kiral organokatalistlerin sentezi ve bunların aldol reaksiyonlarındaki asimetrik induksiyon etkilerinin araştırılması: deneysel ve teorik bir yaklaşım, **2014**, Dicle Üniversitesi Fen Bilimleri Enstitüsü, Diyarbakır, Turkey.
95. Dany Frem Ph. D. thesis, Catalyse organique énantiomériste par des oligomères bien définis de chitosane, **2014**, Université Paris-Sud, France.
96. Raoni Scheibler Rambo, Ph. D. thesis, Desenvolvimento de metodologias organocatalíticas para obtenção de adutos de aldol e Diels-Alder, **2014**, Universidade Federal do Rio Grande do Sul, Porto Alegre, Brazil.
97. JP 0005622019 B2 **2014**. 11. 12.
98. I. Kumar, P. Ramaraju, N. A. Mir, A. Singh, Linear dialdehydes as promising substrates for aminocatalyzed transformations, *Org. Biomol. Chem.* **2015**, 13, 1280-1293.
99. M. Lombardo, Other Substituted Pyrrolidines as Asymmetric Organocatalysts, in: Sustainable Catalysis: Without Metals or Other Endangered Elements, M. North (Ed.), Part 1, Chapter 11, **2015**, 262-296.
100. T. Baba, J. Yamamoto, K. Hayashi, M. Sato, M. Yamanaka, T. Kawabata, T. Furuta, Catalytic discrimination among formyl groups in regio- and stereoselective intramolecular cross-aldol reactions, *Chem. Sci.* **2016**, 7, 3791-3797.

101. C. G. Jacoby, MS Thesis, Síntese de compostos imidazol-tiazolidina e sua aplicação como organocatalisadores em reações aldólicas estereosseletivas, **2016**, Universidade federal do Rio Grande do Sul, Porto Alegre, Brazil.

V. Kurteva, M. Lyapova, Tetrahydropyrimidin-2(1H)-ones with three neighbouring phenyl groups. Synthesis and allylic strain effects, *Arkivoc* **2005** (xiii), 8-20.

102. A. Brandi, S. Cicchi, F. M. Cordero, Novel syntheses of azetidines and azetidinones, *Chem. Rev.* **2008**, *108*, 3988-4035.
103. F. Couty, Product Subclass 6: Azetidines, in: *Science of Synthesis, Houben-Weyl, Methods of Molecular Transformations*, D. Bellus, E. N. Jacobsen, S. V. Ley, R. Noyori, M. Regitz, P. J. Reider, E. Schaumann, I. Shinkai, E. J. Thomas, B. M. Trost, Eds., Georg Thieme Verlag KG, Stuttgart, Germany, **2009**, Vol. 40a, Amines and Ammonium Salts, D. Enders, E. Schaumann, Vol. Eds., Chapter 40.1.6, pp. 773-816.

V. Kurteva, C. Afonso, A study on the intramolecular catalytic aldol cyclodehydration of 3,4-disubstituted 1,6-dialdehydes, *J. Mol. Catal. A – Chem.* **2005**, *234*, 159-167.

104. F. J. S. Duarte, E. J. Cabrita, G. Frenking, A. G. Santos, Mechanistic study of intramolecular aldol reactions of dialdehydes, *Eur. J. Org. Chem.* **2008**, 3397–3402.
105. J. T. B. Kueh, P. D. O'Connor, H. Hügelb, M. A. Brimble, Synthetic studies towards the anti-inflammatory agent, oleocanthal using a Johnson–Claisen (orthoester) rearrangement strategy, *Arkivoc* **2009** (vii), 58-71.
106. F. J. S. Duarte, E. J. Cabrita, G. Frenking, A. Gil Santos, Asymmetric Intramolecular Aldol Reactions of Substituted 1,7-Dicarbonylic Compounds. A Mechanistic Study, *J. Org. Chem.* **2010**, *75*, 2546-2555.

V. Kurteva, V. Zlatanova, V. Dimitrov, Solvent-free synthesis of a series of differently *N*-substituted 4-amino-2-methylquinazolines under microwave irradiation, *Arkivoc* **2006** (i), 46-56.

107. P.-Q. Zhang, B.-A. Song, S. Yang, L.H. Jin, D.-Y. Hu, G. Liu, W. Xue, Synthesis and bioactivity of 6-fluoro-4-(*N*-aryl)aminoquinazoline compounds under microwave irradiation, *Chinese J. Org. Chem.* **2006**, 26, 1275-1278.
108. A. Hasaninejad, A. Zare, H. Sharghi, K. Niknam, M. Shekouhy, P_2O_5/SiO_2 as an efficient, mild, and heterogeneous catalytic system for the condensation of indoles with carbonyl compounds under solvent-free conditions, *Arkivoc* **2007** (xiv), 39-50.
109. G. Liu, C. Liu, L. Sun, R. Qu, H. Chen, C. Ji, Synthesis and biological activity of novel *N*-substituted 4-amino-6,7,8-trimethoxyquinazoline compounds, *Chem. Heterocyclic Compds.* **2007**, 43, 1290-1300; *Khimiya Geterotsiklicheskikh Soedinenii* **2007**, 1521-1531.
110. T. Besson, E. Chosson, Microwave-assisted synthesis of bioactive quinazolines and quinazolinones, *Comb. Chem. High Throughput Screening* **2007**, 10, 903-917.
111. A. Hasaninejad, A. Zare, H. Sharghi, M. Shekouhy, P_2O_5/SiO_2 an efficient, green and heterogeneous catalytic system for the solvent-free synthesis of *N*-sulfonyl imines, *Arkivoc* **2008** (xi), 64-74.
112. N. R. Candeias, L. C. Branco, P. M. P.Gois, C. A. M. Afonso, A. F. Trindade, More sustainable approaches for the synthesis of *N*-based heterocycles, *Chem. Rev.* **2009**, 109, 2703-2802.
113. P. S. Misra, P. Shanmugasundaram, R. Chaudhary, M.V. Aanandhi, Synthesis of 2-phenyl benzimidazole derivatives and their schiff bases as possible antimicrobial agents, *Rasāyan J. Chem.* **2010**, 3, 51-54.
114. P. K. Dubey, P. V. V. Prasada Reddy, K. Srinivas, A facile solvent-free synthesis of 1-alkyl/aralkyl-2-(1-arylsulfonyl alkyl) benzimidazoles using “TBAB” as surface catalyst, *J. Heterocyclic Chem.* **2010**, 47, 1317-1322.

115. Z.-L. Shen, X.-F. He, Y.-M. Hong, X.-Q. Hu, W.-M. Mo, B.-X. Hu, N. Sun, One-pot synthesis of 4-aminoquinazolines by hexamethyldisilazane-mediated reaction of quinazolin-4(3*H*)-ones with amines, *Synth. Commun.* **2011**, *41*, 3644-3653.
116. M. A. El-Hashash, K. M. Darwish, S. A. Rizk, F. A. El-Bassiouny, The reactivity of 2-ethoxy-4-chloroquinazoline and its use in synthesis of novel quinazoline derivatives, *Org. Chem. Int.* **2011**, *2011*, Article ID 295491, 7 pages.
117. J. W. Lockman, Y. Klimova, M. B. Anderson, J. A. Willardsen, Synthesis of substituted quinazolines: Application to the synthesis of verubulin, *Synth. Commun.* **2012**, *42*, 1715-1723.
118. A. Gellis, C. Kieffer, N. Primas, G. Lanzada, M. Giorgi, P. Verhaeghe, P. Vanelle, A new DMAP-catalyzed and microwave-assisted approach for introducing heteroaryl amino substituents at position 4 of the quinazoline ring, *Tetrahedron* **2014**, *70*, 8257-8266.
119. E. Marinho, M. F. Proença, The reaction of 2-(acylamino)benzonitriles with primary aromatic amines: a convenient synthesis of 2-substituted 4-(arylamino)quinazolines, *Synthesis* **2015**, *47*, 1623-1632.
- V. Kurteva, M. Lyapova, I. Pojarlieff, Stereoelectronic effects in intramolecular $S\rightarrow N$ acyl migrations in diastereoisomeric 3-amino- and 3-methylamino-1,2,3-triphenylpropyl thiolacetates, *Arkivoc* **2006** (ii), 91-100.
120. B. G. Sukhov, S. A. Mukha, I. A. Antipova, S. A. Medvedeva, L. I. Larina, N. N. Chipanina, O. N. Kazheva,^b Gennadii V. Shilov, O. A. Dyachenko, B. A. Trofimova, Stereoactive lone pair of electrons on bismuth(III): tris(3-hydroxy-2-methyl-4*H*-pyran-4-onato)bismuth(III), *Arkivoc* **2008** (viii), 139-149.
121. S. A. Ali, A. AlSbaiee, M. I. M. Wazeer, A study of conformational behaviour in some hexahydro-2*H*-isoxazolo[2,3-*a*]pyridines, *Arkivoc* **2008** (xvii), 96-106.

122. B. A. Moosa, S. A. Ali, Regioselective transformation of 6/5-fused bicyclic isoxazolidines to second-generation cyclic aldonitrones, *Arkivoc* **2010** (x), 132-148.
123. F. Peudru, R. Legay, J.-F. Lohier, V. Reboul, M. Gulea, Facile access to γ -aminothiols from 1,3-thiazines via a microwaveassisted three-component reaction, *Tetrahedron* **2012**, 68, 9016-9022.
124. J.-C. M. Monbaliu, G. Dive, C. V. Stevens, A. R. Katritzky, Governing parameters of long-range intramolecular S-to-N acyl transfers within (s)-acyl isopeptides, *J. Chem. Theory Comput.* **2013**, 9, 927-934.

L. C. Branco, P. M. P. Gois, N. M. T. Lourenço, V. B. Kurteva, C. A. M. Afonso, Simple transformation of crystalline chiral natural anions to liquid medium and their use to induce chirality, *Chem. Commun.* **2006**, 2371-2372.

125. S.-P. Luo, D.-Q. Xu, H.-D. Yue, L.-P. Wang, Yang, W.-L., Z.-Y. Xu, Synthesis and properties of novel chiral-amine-functionalized ionic liquids, *Tetrahedron Asymmetry* **2006**, 17, 2028-2033.
126. C. Reichardt, Solvents and solvent effects: An introduction, *Org. Process Res. Dev.* **2007**, 11, 105-113.
127. J. Durand, E. Teuma, M. Gómez, Ionic liquids as a medium for enantioselective catalysis, *Compt. Rend. Chim.* **2007**, 10, 152-177.
128. H. Kunkel, G. Maas, Hexaalkylguanidinium trifluoromethanesulfonates - A general synthesis from tetraalkylureas and triflic anhydride, and properties as ionic liquids, *Eur. J. Org. Chem.* **2007**, 3746-3757.
129. E. Busto, V. Gotor-Fernández, N. Ríos-Lombardía, E. García-Verdugo, I. Alfonso, S. García-Granda, A. Menéndez-Velázquez, M. I.I Burguete, S. V. Luis, V. Gotor, Simple and straightforward synthesis of novel enantiopure ionic liquids via efficient enzymatic resolution of (\pm) -2-(1*H*-imidazol-1-yl)cyclohexanol, *Tetrahedron Lett.* **2007**, 48, 5251-5254.

130. S. Hu, T. Jiang, Z. Zhang, A. Zhu, B. Han, J. Song, Y. Xie, W. Li, Functional ionic liquid from biorenewable materials: synthesis and application as a catalyst in direct aldol reactions, *Tetrahedron Lett.* **2007**, *48*, 5613-5617.
131. T. Yamada, P. J. Lukac, T. Yu, R. G. Weiss, Reversible, Room-temperature, chiral ionic liquids. Amidinium carbamates derived from amidines and amino-acid esters with carbon dioxide, *Chem. Mater.* **2007**, *19*, 4761-4768.
132. M. Schmitkamp, D. Chen, W. Leitner, J. Klankermayer, G. Franciò, Enantioselective catalysis with *tropos* ligands in chiral ionic liquids, *Chem. Commun.* **2007**, 4012-4014.
133. A. Paczal, A. Kotschy, Asymmetric synthesis in ionic liquids, *Monatshefte Chem.* **2007**, *138*, 1115-1123.
134. H. Ohno, K. Fukumoto, Amino acid ionic liquids, *Acc. Chem. Res.* **2007**, *40*, 1122-1129.
135. Katharina Bica, Ph. D. thesis, Chiral and metal functionalized ionic liquids in organic synthesis, **2007**, Technischen Universität Wien.
136. D. K. Mukherjee, N. Ghosh, Enantioselective phase transfer alkylation using orthopalladated complex in chiral ionic liquid, *Catal. Commun.* **2008**, *9*, 40-44.
137. L. Leclercq, I. Suisse, F. Agbossou-Niedercorn, Biphasic hydroformylation in ionic liquids: interaction between phosphane ligands and imidazolium triflate, toward an asymmetric process, *Chem. Commun.* **2008**, 311-313.
138. L. Zhang, S. Luo, X. Mi, S. Liu, Y. Qiao, H. Xu, J.-P. Cheng, Combinatorial synthesis of functionalized chiral and doubly chiral ionic liquids and their applications as asymmetric covalent/non-covalent bifunctional organocatalysts, *Org. Biomol. Chem.* **2008**, *6*, 567–576.
139. T. J. Geldbach, Organometallics in ionic liquids—catalysis and coordination chemistry, In *Organometallic Chemistry*, I. J. S. Fairlamb, J. S. Lynam, Eds., **2008**, *34*, 58–73.
140. M. L. Patil, H. Sasai, Recent developments on chiral ionic liquids: design, synthesis, and applications, *Chem. Rec.* **2008**, *8*, 98-108.

141. J. Shah, J. Liebscher, Synthesis of optically active α -amino ester derived pentasubstituted guanidines and hexasubstituted guanidinium salts as potential ionic liquids, *Synthesis* **2008**, 917-920.
142. A. Winkel, P. V. G. Reddy, R. Wilhelm, Recent advances in the synthesis and application of chiral ionic liquids, *Synthesis* **2008**, 999-1016.
143. C. Chiappe, The Possibility to obtain a new generation of ionic liquids starting from natural compounds, In *Green Chemical Reactions, NATO Science for Peace and Security Series-C: Environmental Security*, P. Tundo, V. Esposito, Eds.; Springer, Dordrecht, The Netherlands; **2008**, Chapter 10, 13-35.
144. D. Brégeon, J. Levillain, F. Guillen, J.-C. Plaquevent, A.-C. Gaumont, Thiazolinium and imidazolium chiral ionic liquids derived from natural amino acid derivatives, *Amino Acids* **2008**, 35, 175-184.
145. K. Bica, P. Gaertner, Applications of chiral ionic liquids, *Eur. J. Org. Chem.* **2008**, 3235-3250.
146. D. Chen, M. Schmitkamp, G. Franciò, J. Klankermayer, W. Leitner, Enantioselective hydrogenation with racemic and enantiopure Binap in the presence of a chiral ionic liquid, *Angew. Chem.* **2008**, 120, 7449-7451; *Angew. Chem. Int. Ed.* **2008**, 47, 7339-7341.
147. J. C. Plaquevent, J. Levillain, F. Guillen, C. Malhiac, A.-C. Gaumont, Ionic liquids: new targets and media for alpha-amino acid and peptide chemistry, *Chem. Rev.* **2008**, 108, 5035-5060.
148. S. Lee, Y. J. Zhang, Enantioselective catalysis in ionic liquids and supercritical CO₂, In *Handbook of Asymmetric Heterogeneous Catalysis*, K. Ding, Y. Uozumi, Eds.; Wiley-VCH, **2008**, Chapter 7, pp. 233-292.
149. Katalin Barta, Ph. D. thesis, Synthesis and application of chiral phosphorous triamide ligands, **2008**, Aahen University.
150. Helene Kunkel, Ph. D. thesis, Ionische flüssigkeiten auf hexaalkylguanidiniumbasis - synthese, charakterisierung und anwendungen, **2008**, Ulm University.
151. Florence Gayet, Ph. D. thesis, Agrégats moléculaires en liquides ioniques et réactivité dans ces milieu, **2008**, l'Université Toulouse III - Paul Sabatier.

152. Saibh Morrissey, Ph. D. thesis, Environmentally-benign imidazolium-based ionic liquids: synthesis, characterisation and applications in hydrogenation reactions, **2008**, School of Chemical Sciences, Dublin City University.
153. S. Fang, L. Yang, C. Wei, C. Jiang, K. Tachibana, K. Kamijima, Ionic liquids based on guanidinium cations and TFSI anion as potential electrolytes, *Electrochimica Acta* **2009**, *54*, 1752-1756.
154. O. N. Van Buu, A. Aupoix, G. Vo-Thanh, Synthesis of novel chiral imidazolium-based ionic liquids derived from isosorbide and their applications in asymmetric aza Diels-Alder reaction, *Tetrahedron* **2009**, *65*, 2260-2265.
155. S. Fang, L. Yang, J. Wang, M. Li, K. Tachibana, K. Kamijima, Ionic liquids based on functionalized guanidinium cations and TFSI anion as potential electrolytes, *Electrochimica Acta* **2009**, *54*, 4269-4273.
156. S. Luo, L. Zhang, J.-Pei Cheng, Functionalized Chiral Ionic Liquids: A New Type of Asymmetric Organocatalysts and Nonclassical Chiral Ligands, *Chem. - Asian J.* **2009**, *4*, 1184-1195.
157. H. Leutbecher, S. Rieg, J. Conrad, S. Mika, I. Klaiber, U. Beifuss, Synthesis of phenyl-substituted 2H, 5H-pyrano[4, 3-b]pyran-5-ones and related heterocycles and via a domino Knoevenagel condensation/6π-electron electrocyclization of 4-hydroxy-6-phenyl-2H-pyran-2-one with cyclic and acyclic α, β-unsaturated aldehydes under different conditions , *Zeitschrift Naturforsch. - Section B, J. Chem. Sci.* **2009**, *64*, 935-944.
158. L. Xu, J. Xiao, Asymmetric catalysis in ionic liquids, In *Recoverable and Recyclable Catalysts*, M. Benaglia, Ed.; Wiley-VCH, **2009**, Chapter 10, pp. 259-300.
159. M. H. G. Precht, J. D. Scholten, B. A. D. Neto, J. Dupont, Application of chiral ionic liquids for asymmetric induction in catalysis, *Curr. Org. Chem.* **2009**, *13*, 1259-1277.
160. O. N. Van Buu, A. Aupoix, N. D. T. Hong, G. Vo-Thanh, Chiral ionic liquids derived from isosorbide: synthesis, properties and applications in asymmetric synthesis, *New J. Chem.* **2009**, *33*, 2060-2072.

161. J. Lacour, D. Moraleda, Chiral anion-mediated asymmetric ion pairing chemistry, *Chem. Commun.* **2009**, 7073-7089.
162. Julio Cezar Pastre, Ph. D. thesis, Reações de Heck de Acrilatos Substituídos com Sais de Arenodiazônio em Solventes Orgânicos e Líquidos Iônicos. Aplicação na Síntese da Paroxetina, da Nocaína, da Indatralina e da Sertralina. **2009**, Universidade Estadual de Campinas, Spain.
163. N. Ríos-Lombardía, E. Bustó, V. Gotor-Fernández, V. Gotor, R. Porcar, E. García-Verdugo, S. V. Luis, I. Alfonso, S. García-Granda, A. Menéndez-Velázquez, From salts to ionic liquids by systematic structural modifications: A rational approach towards the efficient modular synthesis of enantiopure imidazolium salts, *Chem. Eur. J.* **2010**, 16, 836-847.
164. D. Chen, B. Sundararaju, R. Krause, J. Klankermayer, P. H. Dixneuf, W. Leitner, Asymmetric induction by chiral borate anions in enantioselective hydrogenation using a racemic Rh-binap catalyst, *ChemCatChem* **2010**, 2, 55-57.
165. C. Ogawa, S. Kobayashi, Catalytic asymmetric synthesis in non-conventional media/conditions, In *Catalytic Asymmetric Synthesis*, 3rd Edition, I. Ojima, Ed.; John Wiley & Sons, Inc., Hoboken, New Jersey, **2010**, chapter 1, pp. 1-36.
166. M. G. Bogdanov, D. Petkova, S. Hristeva, I. Svinaryarov, W. Kantlehner, New guanidinium-based room-temperature ionic liquids. substituent and anion effect on density and solubility in water, *Zeitschrift Naturforsch. - Section B, J. Chem. Sci.* **2010** 65, 37-48.
167. R. L. Gardas, R. Ge, P. Goodrich, C. Hardacre, A. Hussain, D. W. Rooney, Thermophysical properties of amino acid-based ionic liquids, *J. Chem. Eng. Data* **2010**, 55, 1505-1515.
168. J. C. Pastre, Y. Génisson, N. Saffon, J. Dandurand, C. R. D. Correia, Synthesis of novel room temperature chiral ionic liquids. application as reaction media for the Heck arylation of aza-endocyclic acrylates, *J. Braz. Chem. Soc.* **2010**, 21, 821-836.
169. B. Ni, A. D. Headley, Ionic-liquid-supported (ILs) catalysts for asymmetric organic synthesis, *Chem. Eur. J.* **2010**, 4426-4436.

170. X. Xin, Y. Wang, W. Xu, Y. Lin, H. Duan, D. Dong, A facile and efficient one-pot synthesis of polysubstituted benzenes in guanidinium ionic liquids, *Green Chem.* **2010**, *12*, 893-898.
171. G.-C. Ou, Z.-Z. Wang, L.-Z. Yang, C.-Y. Zhao, T.-B. Lu, Chiral resolution of a racemic macrocyclic complex by recognition of one enantiomer over the other: structures and DFT calculations, *Dalton Trans.* **2010**, *39*, 4274-4279.
172. T.-K.-T. Truong, G. Vo-Thanh, Synthesis of functionalized chiral ammonium, imidazolium and pyridinium-based ionic liquids derived from (-)-ephedrine using solvent-free microwave activation. Applications for the asymmetric Michael addition, *Tetrahedron* **2010**, *66*, 5277-5282.
173. G. Fukuhara, C. Chiappe, A. Mele, B. Melai, F. Bellina, Y. Inoue, Photochirogenesis in chiral ionic liquid: enantiodifferentiating [4+4] photocyclodimerization of 2-anthracenecarboxylic acid in (*R*)-1-methyl-3-(2,3-dihydroxypropyl)imidazolium bistriflimide, *Chem. Commun.* **2010**, *46*, 3472-3474.
174. Y. Qian, X. Zheng, Y. Wang, A green and efficient asymmetric aldol reaction catalyzed by a chiral anion modified ionic liquid, *Eur. J. Org. Chem.* **2010**, *3672-3677*.
175. P. Moriel, E. J. García-Suárez, M. Martínez, A. B. García, M. A. Montes-Morán, V. Calvino-Casilda, M. A. Bañares, Synthesis, characterization and catalytic activity of ionic liquids based on biosources, *Tetrahedron Lett.* **2010**, *51*, 4877-4881.
176. X. Lijin, Y. Bing, D. Limin, T. Weijun, Asymmetric catalysis in ionic liquids, *Progress in Chemistry* **2010**, *22*, 1254-1273.
177. A. Winkel, R. Wilhelm, New chiral ionic liquids based on enantiopure sulfate and sulfonate anions for chiral recognition, *Eur. J. Org. Chem.* **2010**, 5817-5824.
178. Sharpless dihydroxylation, *Comprehensive Organic Name Reactions and Reagents*, John Wiley & Sons, Inc., **2010**, pp. 2574-2579.
179. D. Giunta, M. Solinas, Ionic liquids in metal catalyzed reactions, *Encyclopedia of Catalysis*, John Wiley & Sons, Inc., **2010**.

180. M. Li, D. K. Bwambok, S. O. Fakayode, I. M. Warner, Chiral ionic liquids in chromatographic separation and spectroscopic discrimination, in *Chiral Recognition in Separation Methods*, A. Berthod (ed.), Springer-Verlag Berlin Heidelberg, **2010**, pp 289-329.
181. Marcel Treskow, Ph. D. thesis, Synthese und Anwendung von Sulfonimididen, **2010**, Köln University.
182. Ding Xiong, Ph. D. thesis, Application of imidazolium ion-tagged organocatalyst in asymmetric catalysis reaction, **2010**, Nanjing University.
183. Fevzi Dinçel, Ph. D. thesis, Kiral iyonik sivilarin sentezleri, **2010**, Dokuz Eylül Üniversitesi Fen Bilimleri Enstitüsü, Temmuz, İzmir Turkey.
184. *Solvents and Solvent Effects in Organic Chemistry*, 4th Edition, C.Reichardt, T. Welton, Eds.; WILEY-VCH Verlag GmbH & Co. KGaA, Weinheim, **2011**, Chapter 3, pp.65-106.
185. C. Gaumont, Y. Genisson, F. Guillen, J. C. Plaquevent, From Pasteur to chiral ionic liquids: a short history of solvent-promoted asymmetric induction, *Actualite Chimique* **2011**, iss. 348-349, 84-89.
186. T. J. Trivedi, K. S. Rao, T. Singh, S. K. Mandal, N. Sutradhar, A. B. Panda, A. Kumar, Task-specific, biodegradable amino acid ionic liquid surfactants, *ChemSusChem* **2011**, 4, 604-608.
187. A.-C. Gaumont, Y. Génisson, F. Guillen, V. Zgonnik, J.-C. Plaquevent, Chiral ionic liquids for asymmetric reactions, In *Catalytic Methods in Asymmetric Synthesis: Advanced Materials, Techniques, and Applications*, M. Gruttaduria and F. Giacalone, eds., John Wiley & Sons, Inc., Hoboken, NJ, USA; **2011**, pp. 323-344.
188. D. H. Kim, J. K. Im, D. W. Kim, M. Cheong, H. S. Kim, D. K. Mukherjee, Palladium catalysed asymmetric alkylation of benzophenone Schiff base glycine esters in ionic liquids, *J. Chem. Sci.* **2011**, 123, 467-476.
189. A. Patti, Alternative solvents and recycle of the catalyst, Green Approaches To Asymmetric Catalytic Synthesis, Chapter 3, *SpringerBriefs in Molecular Science* **2011**, 4, 67-116.

190. G. Fukuhara, T. Okazaki, M. Lessi, M. Nishijima, C. Yang, T. Mori, A. Mele, F. Bellina, C. Chiappe, Y. Inoue, Chiral ionic liquid-mediated photochirogenesis. Enantiodifferentiating photocyclodimerization of 2-anthracenecarboxylic acid, *Org. Biomol. Chem.* **2011**, *9*, 7105-7112.
191. J. Tang, L. Feng, S.-f. Gao, Research Advance on Synthesis of Ordinary Ionic Liquids and Task-Specific Ionic Liquids, *Chem. & Bioeng.* **2011**, *28* (12), 4-10.
192. Dianjun Chen, Ph. D. thesis, Novel Strategies for Asymmetric Hydrogenation Reactions, **2011**, Aachen University.
193. F. Mert-Balci, J. Conrad, U. Beifuss, Microwave-assisted three-component reaction in conventional solvents and ionic liquids for the synthesis of amino-substituted imidazo[1,2-*a*]pyridines, *Arkivoc* **2012** (*iii*) 243-256.
194. S. S. Chavan, M. S. Degani, Ionic liquid mediated one-pot synthesis of 6-aminouracils, *Green Chem.* **2012**, *14*, 296-299.
195. E. J. García-Suárez, C. Menéndez-Vázquez, A. B. García, Chemical stability of choline-based ionic liquids supported on carbon materials, *J. Mol. Liquids* **2012**, *169*, 37-42.
196. A. Castiglia, H. M. El Sehrawi, T. Orbegozo, D. Spitzner, B. Claasen, W. Frey, W. Kantlehner, V. Jäger, Synthesis and characterization of chiral guanidines und guanidinium salts derived from 1-phenylethylamine, *Zeitschrift Naturforsch. - Section B, J. Chem. Sci.* **2012** *67*, 337-346.
197. T. Large, T. Müller, H. Kunkel, S. Maas, Ruthenium- and rhodium-catalyzed carbeneoid reactions of diazoesters in hexaalkylguanidinium-based ionic liquids, *Zeitschrift Naturforsch. - Section B, J. Chem. Sci.* **2012** *67*, 347-353.
198. A. Dandia, A. K. Jain, S. Sharma, An efficient and highly selective approach for the construction of novel dispiro heterocycles in guanidine-based task-specific [TMG][Ac] ionic liquid, *Tetrahedron Lett.* **2012**, *53*, 5859-5863.
199. N. Sharma, U. K. Sharma, R. Kumar, R. K. Sinha, A. K. Sinha, Green and recyclable glycine nitrate (GlyNO₃) ionic liquid triggered multicomponent Biginelli reaction for the efficient synthesis of dihydropyrimidinones, *RSC Adv.* **2012**, *2*, 10648-10651.

200. P. Goodrich, C. Paun, C. Hardacre, Asymmetric Catalysis in Ionic Liquids with ‘Unmodified’ Catalysts, In. *RSC Green Chemistry Series, Enantioselective Homogeneous Supported Catalysis*, R. Šebesta, Ed., RSC Publishing, **2012**, chapter 3, 58-93.
201. Mylène Auge, DSc thesis; Stratégie de l'anion chiral en catalyse asymétrique organometallique, L'université Pierre et Marie Curie, Spécialité Chimie Organique, Ecole Doctorale de Chimie Moléculaire, ED 406, **2012**.
202. M. P. Doyle, Y. Liu, M. Ratnikov, Catalytic, asymmetric, intramolecular carbon–hydrogen insertion, In *Organic Reactions*, Vol. 80, Edited by Scott E. Denmark et al., John Wiley & Sons, Inc., **2013**, Chapter 1, 1-132.
203. K. Bica, M. Vasiliou, S. Leder, P. Gärtner, K. Mereiter, Coordinating chiral ionic liquids, *Org. Biomol. Chem.* **2013**, *11*, 8092-8102.
204. Nandini Sharma, Ph. D. thesis, Chemical and biotransformation studies of some bioactive phenolics and heterocyclic compounds, Chapter 3: Green synthesis of some bioactive heterocyclic compounds from natural precursors, **2013**, Guru Nanak Dev University, Amritsar Punjab, India.
205. Fadime Mert-Balci, Ph. D. thesis, Influence of microwave irradiation and ionic liquids on multi component reactions, **2013**, Fakultät Naturwissenschaften, Universität Hohenheim.
206. Noélia Carbó Mestre, PhD thesis; Diseño y síntesis de ligandos quirales derivados de aminoácidos como receptores quirales y su aplicación en organocatálisis, **2013**, Universitat Jaume, España.
207. R. Kumar, N. H. Andhare, A. Shard, Richa, A. Kumar Sinha, Multicomponent diversity-oriented synthesis of symmetrical and unsymmetrical 1,4-dihydropyridines in recyclable glycine nitrate (GlyNO_3) ionic liquid: a mechanistic insight using Q-TOF, ESI-MS/MS, *RSC Adv.* **2014**, *4*, 19111-19121.
208. B. Markiewicz, A. Sznajdrowska, Ł. Chrzanowski, Ł. Ławniczak, A. Zgoła-Grześkowiak, K. Kubiak, J. Nawrot, J. Pernak, Ionic liquids with a theophyllinate anion, *New J. Chem.* **2014**, *38*, 3146-3153.

209. X. P. Zhang, X. Cui, In *Comprehensive Organic Synthesis II (Second Edition)*; P. Knochel, G. A. Molander (Eds.); **2014**, Elsevier Ltd.; Vol. 7. Oxidation, Chapter 7.03 Asymmetric C–H Functionalization by Transition Metal-Catalyzed Carbene Transfer Reactions, pp. 86-120.
210. M. Arkhipova, S. Eichel, G. Maas, Hexaalkylguanidinium salts as ionic liquids – applications in titanium and aluminium alcoholate assisted synthesis, *RSC Adv.* **2014**, 4, 56506-56517.
211. Shaw Subrata, PhD thesis; Cis-2,5-diaminobicyclo[2.2.2]octane: a novel C₂-symmetric scaffold for asymmetric catalysis, **2014**, Oregon State University, USA.
212. Karolina Anna Maria Zalewska, PhD thesis, Development of novel ionic liquids based on biological molecules, **2014**, Universidade Nova de Lisboa, Portugal.
213. M. Arkhipova, PhD Thesis, Hexaalkylguanidinium salts as ionic liquids – new applications in titanium and aluminium alcoholates assisted synthesis and as electrolytes for electrodeposition of metals, 2014, Universität Ulm, Germany.
214. J. M. Balbino, D. Peral, J. C. Bayón, J. Dupont, The multiple roles of imidazolium ionic liquids in transition-metal catalysis: the palladium-catalyzed telomerization of 1,3-butadiene with acetic acid, *ChemCatChem* **2015**, 7, 972-977.
215. *Ionic Liquids (ILs) in Organometallic Catalysis*, J. Dupont, L. Kollár (Eds.); Y. Li, Y.-M. He, Q.-H. Fan, Ionic Liquids in Transition Metal-Catalyzed Enantioselective Reactions, *Top. Organomet. Chem.* **2015**, 51, 323-347.
216. P. J. Dyson, P. G. Jessop, Solvent effects in catalysis: rational improvements of catalysts via manipulation of solvent interactions, *Catal. Sci. Technol.* **2016**, 6, 3302-3316.
217. R. Porcar, M. I. Burguete, P. Lozano, E. Garcia-Verdugo, S. V. Luis, Supramolecular interactions based on ionic liquids for tuning of the catalytic efficiency of (L)-proline, *ACS Sust. Chem. Eng.* **2016**, 4, 6062-6071.
218. A. Saha, S. Payra, S. Banerjee, Recent Advances on Design and Synthesis of Chiral Imidazolium Ionic Liquids and their Applications in Green Asymmetric Synthesis, *J. Appl. Solution Chem. Model.* **2016**, 5, 3-20.

V. Kurteva, Modern aspects of azetidine synthesis, In *Modern Approaches to the Synthesis of O- and N- Heterocycles*; T. Kaufman and E. Larghi, Eds.; Research Signpost: Kerala, India; **2007**, Vol. 3, pp. 45-71.

219. Brandi, S. Cicchi, F. M. Cordero, Novel syntheses of azetidines and azetidinones, *Chem. Rev.* **2008**, *108*, 3988-4035.
220. V. V. R. M. Krishna Reddy, K. K. Babu, A. Ganesh, P. Srinivasulu, G. Madhusudhan, K. Mukkanti, Improved process for the preparation of 1-benzhydrylazetidin-3-ol: development of an efficient synthesis and identification of process-related impurities and/or intermediates, *Org. Process Res. Dev.* **2010**, *14*, 931-935.
221. V. V. R. M. Krishna Reddy, D. Udaykiran, U.S. Chintamani, E. Mahesh Reddy, Ch. Kameswararao, G. Madhusudhan, Development of an optimized process for the preparation of 1-benzylazetidin-3-ol: an industrially important intermediate for substituted azetidine, *Org. Process Res. Dev.* **2011**, *15*, 462-466.
222. F. Faigl, E. Kovács, G. Turczel, Á. Szöllősy, A. Mordini, L. Balázs, T. Holczbauer, M. Czugler, Novel stereoselective synthesis of 1,2,3-trisubstituted azetidines, *Tetrahedron: Asymm.* **2012**, *23*, 1607-1614.
223. Ervin Kovács, PhD thesis, Királis négy- és öttagú heterociklusok sztereoszelektív szintézise és reakcióinak vizsgálata, **2015**, BME Szerves Kémia és Technológia tanszék, Budapest, Hungary.

K. Doktorov, V. B. Kurteva, D. Ivanova, I. Timtcheva, Microwave assisted solventless synthesis of melamines with flexible aromatic substituents, *Arkivoc* **2007** (xv), 232-245.

224. J. A. Seijas, M. A. Carballo-Meilán, X. Feás, M. P. Vázquez-Tato, Microwave assisted synthesis of dendrimeric cores, *The 16th International Electronic Conference on Synthetic Organic Chemistry*, 1-30 November 2012, MDPI, Basel, Switzerland, Section A: General Organic Synthesis.

225. José Ramón Ramírez Díaz, Ph. D. thesis, Síntesis sostenible de nuevos derivados de triazina. Estudio de sus propiedades ópticas, **2013**, Universidad de Castilla-La Mancha, Spain.
226. Deepak Kumar, Ph. D. thesis, A library of aryls, alkyl aryls and heteroaryls as biodynamic agents, **2013**, University of Delhi, Delhi, India.
227. Shaikh Faiyazalam Mahmad Saiyad, Ph. D. thesis, Exploration of newer glitazone analogues: synthesis and biological activitites, **2013**, Veer Narmad South Gujarat University, Surat, India.
228. Diwan S. Rawat, Ph. D. thesis, A Library of Aryls, Alkyl Aryls and Heteroaryls as Biodynamic Agents, **2013**, University of Delhi, India.
229. D. Kumar, S. I. Khan, P. Ponnan, D. S. Rawat, Triazine–pyrimidine based molecular hybrids: synthesis, docking studies and evaluation of antimalarial activity, *New J. Chem.* **2014**, *38*, 5087-5095.
230. Mohammed M. Hasson, Ph. D. thesis, Triazine based N-heterocyclic carbenes - synthesis, coordination and catalysis, **2015**, Cardiff University, UK.

S. P. Simeonov, V. B. Kurteva, R. P. Bontchev, One-pot solvent-free synthesis of symmetrical azines under microwave irradiation, *Bulg. Chem. Commun.* **2008**, *40*, 409-417.

231. J. Zheng, X. Li, H. Wu, S. Yan, L. Ma, Polyhydroxybenzaldehyde Azines: A Novel Competitive α -Glucosidase Inhibitor, *Bioorg. Med. Chem.* doi: 11.1016/j.bmc.2013.06.004.
232. P. Vijaya, Synthesis, Characterisation and Computational Analysis of p-Isobutylacetophenone Azines, **2014**, Annamalai University, India.
233. R. Arulmani, PhD Thesis, Synthesis, Spectral and Computational Analysis of Some Novel Azines, **2014**, Annamalai University, India.
234. A. Jarczyk-Jedryka, K. Bijak, D. Sek, M. Siwy, M. Filapek, G. Malecki, S. Kula, G. Lewinska, E. M. Nowak, J. Sanetra, H. Janeczek, K. Smolarek, S. Mackowski, E. Schab-Balcerzak, Unsymmetrical and symmetrical azines toward application in organic photovoltaic, *Opt. Mater.* **2015**, *39*, 58-68.

D. Nedeltcheva, V. Kurteva, B. Damyanova, S. Popov, Gas-phase tautomerism in 1-phenylazonaphthalene-4-ol: verification of the responses of individual tautomers, *Rapid Commun. Mass Spectrom.* **2009**, 23, 1727-1734.

235. S.-T. Lin, L.-H. Lin, Y.-C. Lin, M.-F. Ding, Substituent effect on the tautomerization of 1-arylazonaphthalen-2-ols by mass spectrometric analysis, *J. Chinese Chem.Soc.* **2015**, 62, 257-262.
236. Аль-Саиди Мохаммед Забун Тхани, Таутомерия и экстракционно-фотометрическое определение фенилазонафтолов с применением смешанных мицелл поверхностно-активных веществ, ФГБОУ ВПО Саратовский Государственный Университет имени Н. Г. Чернышевского, Саратов, **2016**.

L. Antonov, V. Deneva, S. Simeonov, V. Kurteva, D. Nedeltcheva, J. Wirz, Exploiting tautomerism for switching and signaling, *Angew. Chem., Int. Ed.* **2009**, 48, 7875-7878; *Angew. Chem.* **2009**, 121, 8015-8018.

237. H. Y. Lee, X. Song, H. Park, M.-H. Baik, D. Lee, Torsionally responsive C_3 -symmetric azo dyes: azo-hydrazone tautomerism, conformational switching, and application for chemical sensing, *J. Am. Chem. Soc.* **2010**, 132, 12133-12144.
238. I. Alkorta, J. Elguero, P. L. A. Popelier, Thermodynamic and kinetic effects of Lewis acid complexation on a Schiff base present in two tautomeric forms, *J. Phys. Org. Chem.* **2011**, 24, 744-750.
239. I. Alkorta, J. Elguero, Modeling the allosteric effect: modification of the tautomerism by intermolecular interactions and extension to molecular wires, *Struct. Chem.* **2011**, 22, 707-715.
240. M. Tian, H. Ihmels, Selective colorimetric detection of Hg^{2+} and Mg^{2+} with crown ether substituted *N*-aryl-9-aminobenzo[*b*]quinolizinium derivatives, *Eur. J. Org. Chem.* **2011**, 4145-4153.

241. A. R. Todorov, M. Nieger, J. Helaja, Tautomeric switching and metal-cation sensing of ligand-equipped 4-hydroxy-/4-oxo-1,4-dihydroquinolines, *Chem. Eur. J.* **2012**, *18*, 7269-7277.
242. S. A. Hameed, S. K. Alrouby, R. Hilal, Design of molecular switching and signaling based on proton transfer in 2-hydroxy Schiff bases: a computational study, *J. Mol. Model.* **2013**, *19*, 559-569.
243. Y. Izawa, C. Zheng, S. S. Stahl, Aerobic oxidative Heck/dehydrogenation reactions of cyclohexenones: efficient access to meta-substituted phenols, *Angew. Chem. Int. Ed.* **2013**, *52*, 3672-3675.
244. L. Duarte, B. M. Giuliano, I. Reva, R. Fausto, Tautomers and UV-induced photoisomerization of a strongly intramolecularly H-bonded aromatic azo-dye: 1-(cyclopropyl)diazo-2-naphthol, *J. Phys. Chem. A* **2013**, *117*, 10671-10680.
245. G. Cui, P.-J. Guan, W.-H. Fang, Photoinduced proton transfer and isomerization in a hydrogen-bonded aromatic azo compound: a CASPT2//CASSCF study, *J. Phys. Chem. A* **2014**, *118*, 4732-4739.
246. Y. Ding, X. Li, J. P. Hill, K. Ariga, H. Ågren, J. Andréasson, W. Zhu, H. Tian, Y. Xie, Acid/base switching of the tautomerism and conformation of a dioxoporphyrin for integrated binary subtraction, *Chem. Eur. J.* **2014**, *20*, 12910-12916.
247. M. Juribašić, N. Bregović, V. Stilinović, V. Tomišić, M. Cindrić, P. Šket, J. Plavec, M. Rubčić, K. Užarević, Supramolecular stabilization of metastable tautomers in solution and the solid state, *Chem. Eur. J.* **2014**, *20*, 17333-17345.
248. T. Irshaidat, Molecular Properties and H-bonding in N-8-quinolinyl-2-hydroxynaphthalimine and its azo-analogue, *J. Chem. Soc. Pak.* **2014**, *36*, 1071-1078.
249. P.-J. Guan, G. Cui, Q. Fang, Computational photochemistry of the azobenzene scaffold of Sudan I and Orange II dyes: excited-state proton transfer and deactivation via conical intersections, *ChemPhysChem* **2015**, *16*, 805-811.
250. M. Cigáň, K. Jakusová, J. Donovalová, J. Filo, M. Horváth, A. Gálovský, Fluorescence of isatin N-phenylsemicarbazones: aggregation and hydrazide–hydrazonol tautomerism, *J. Phys. Org. Chem.* **2015**, *28*, 337-346.

251. W. M. F. Fabian, S. T. Ali, Design of molecular switches and sensors based on proton transfer - Theory vs. Experiment, *AIP Conf. Proc.* **2015**, *1642*, 465-468.
252. A. El-Amri, S. A. Elroby, O. Kühn, R. H. Hilal, Toward understanding tautomeric switching in 4-hydroxynaphthaldehyde and its dimers: A DFT and quantum topology study, *J. Theor. Comput. Chem.* **2015**, *14*, Article 1550016, 23 pp.
253. N. Sakai, H. Hori, Y. Yoshida, T. Konakahara, Y. Ogiwara, Copper(I)-catalyzed coupling reaction of aryl boronic acids with *N,O*-acetals and *N,N*-aminals under atmosphere leading to α -aryl glycine derivatives and diarylmethylamine derivatives, *Tetrahedron* **2015**, *71*, 4722-4729.
254. S. Steinwand, T. Halbritter, D. Rastädter, J. M. Ortiz-Sánchez, I. Burghardt, A. Heckel, J. Wachtveitl, Ultrafast spectroscopy of hydroxy-substituted azobenzenes in water, *Chem. Eur. J.* **2015**, *21*, 15720-15731.
255. B.-b. Xie, C.-x. Li, G.-l. Cui, Q. Fang, Excited-state proton transfer and decay in hydrogen-bonded oxazole system: MS-CASPT2//CASSCF study, *Chinese J. Chem. Phys.* **2016**, *29*, 38-46.
256. A. D. Dubonosov, V. A. Bren, V. I. Minkin, Enolimine–Ketoenamine Tautomerism for Chemosensing, in Tautomerism: Concepts and Applications in Science and Technology, L. Antonov, ed., **2016**, Wiley-VCH Verlag GmbH & Co. KGaA, Weinheim, Germany, chapter 10, pp. 229-252.
257. Аль-Саиди Мохаммед Забун Тхани, Таутомерия и экстракционно-фотометрическое определение фенилазонафтолов с применением смешанных мицелл поверхностно-активных веществ, ФГБОУ ВПО Саратовский Государственный Университет имени Н. Г. Чернышевского, Саратов, **2016**.
258. R. Y. Raskar, S. S. Pingale, Density functional investigation of substituent effect driven tautomeric switching in salicylate anion, *Quantum Matter.* **2016**, *5*, 369-371.

A. R. Todorov, V. B. Kurteva, R. P. Bontchev, N. G. Vassilev, Chiral amine-induced stereoselectivity in *trans*- β -lactam formation via Staudinger cycloaddition, *Tetrahedron* **2009**, *65*, 10339-10347.

259. Y. Bandala, E. Juaristi, Recent advances in the application of α -phenylethylamine (α -PEA) in the preparation of enantiopure compounds, *Aldrichimica Acta* **2010**, *43*, 65-78.
260. B. Alcaide, P. Almendros, Four-membered ring systems, In *Progress in Heterocyclic Chemistry*, G. W. Gribble, J. Joule, Eds.; Elsevier Ltd., **2011**, Vol. 22, Chapter 4, 85-107.
261. X. F. Cao, Y. S. Wang, S. W. Li, C. S. Chen, S. Y. Ke, Synthesis and biological activity of a series of novel *N*-substituted beta-lactams derived from natural gallic acid, *J. Chinese Chem. Soc.* **2011**, *58*, 35-40.
262. S. Thompson, A. G. Coyne, P. C. Knipe, M. D. Smith, Asymmetric electrocyclic reactions, *Chem. Soc. Rev.* **2011**, *40*, 4217-4231.
263. N. Dennis, Addition Reactions: Cycloaddition, In *Organic Reaction Mechanisms 2009, Organic Reaction Mechanisms Series*, A. C. Knipe, Ed.; John Wiley & Sons Ltd., Chichester, UK, **2011**, Chapter 12, pp. 421-456.
264. N. N. Romanova, I. I. Rybalko, T. G. Tallo, N. V. Zyk, V. K. Švedas, Synthesis of Schiff bases from 3-amino-3-arylpropionic acid esters in aqueous medium, *Russ. J. Org. Chem.* **2012**, *48*, 860-863.
265. V. V. Dabholkar, S. N. Gandhale, N. B. Shinde, Novel β -lactum-1,2,3-triazoles-their synthesis and antibacterial activity, *Heterocycl. Lett.* **2012**, *2*, 91-98.
266. I. Banik, B. K. Banik, Synthesis of β -lactams and their chemical manipulations via microwave-induced reactions, *Top. Heterocycl. Chem.* **2013**, *30*, 183-222.
267. L. Fodor, P. Csomós, F. Fülöp, A. Csámpai, P. Sohár, Preparation and ring transformation of isomeric β -lactam derivatives of bicyclic 1,3-thiazines, *Tetrahedron* **2013**, *69*, 410-417.
268. А. Добрев, Ю. Загранярски, Синтез на β -лактами с участието на имини или β -аминокиселини и техни производни, *Bulg. J. Chem.* **2013**, *2*, 45-59.

269. A. D. Allen, T. T. Tidwell, Ketenes and other cumulenes as reactive intermediates, *Chem. Rev.* **2013**, *113*, 7287-7342.
270. M. T. Aranda, P. Pérez-Faginas, R. González-Muñiz, An update on the synthesis of β -lactams, *Adv. Org. Synth.* **2013**, *6*, 296-354.
271. A. Jarrahpour, E. Ebrahimi, V. Sinou, C. Latour, J. M. Brunel, Diastereoselective synthesis of potent antimalarial cis- β -lactam agents through a [2+2] cycloaddition of chiral imines with a chiral ketene, *Eur. J. Med. Chem.* **2014**, *87*, 364-371.
272. P. Kang, K. M. Lee, W. K. Lee, K. H. Lee, B. Lee, J. Choc, N. H. Hur, One-pot solvent-free reductive amination with a solid ammonium carbamate salt from CO₂ and amine, *RSC Adv.* **2014**, *4*, 46203-46207; Suppl. Mater.
273. B. K. Banik, Novel synthesis of β -lactams and their biological evaluation, *J. Indian Chem. Soc.* **2014**, *91*, 1837-1860.
274. V. V. Dabholkar, S. D. Shah, V. M. Dave, Lacatums of thiazol-4-ones, *Pharma Chemica* **2015**, *7*, 163-166.

V. B. Kurteva, C. A. M. Afonso, Synthesis of cyclopentitols by ring-closure approaches, *Chem. Rev.* **2009**, *109*, 6809-6857.

275. J. Lei, H.-L. Cui, R. Li, L. Wu, Z.-Y. Ding, Y.-C. Chen, Tributyltin hydride-mediated radical cyclisation reactions: efficient construction of multiply substituted cyclopentanes, *Org. Biomol. Chem.* **2010**, *8*, 2840-2844.
276. P. Cao, C. Deng, Y.-Y. Zhou, X.-L. Sun, J.-C. Zheng, Z. Xie, Y. Tang, Asymmetric Nazarov reaction catalyzed by chiral tris(oxazoline)copper(II), *Angew. Chem. Int. Ed.* **2010**, *49*, 4463-4466.
277. A. Boto, D. Hernández, R. Hernández, One-pot synthesis of azanucleosides from proline derivatives - stereoselectivity in sequential processes, *Eur. J. Org. Chem.* **2010**, 3847-3857.
278. A. Boto, D. Hernández, R. Hernández, One-pot conversion of proline derivatives into iodinated iminosugar-based nucleosides, useful precursors of highly functionalized nucleoside analogues, *Eur. J. Org. Chem.* **2010**, 6633-6642.

279. T. H. Al-Tel, M. H. Semreen, W. Voelter, Tandem Achmatowicz-Knoevenagel protocol: Diastereoselective synthesis and anticancer evaluation of cyclopenta[b]pyrane derivatives, *Org. Biomol. Chem.* **2010**, 8, 5375-5382.
280. Maria Carolina Maia Devesa Inácio Carias, Ph. D. thesis, Novas metodologias sintéticas de compostos farmacologicamente activos, **2010**, Instituto Superior Técnico, Universidade Técnica de Lisboa, Portugal.
281. Wei-Lin Zheng, Ph. D. thesis, The study of radical cyclization reactions with acylsilanes derived from carbohydrate templates, **2010**, Department of Chemistry, National Taiwan University, Taipei, Taiwan.
282. Bryn Lutes, Ph. D. thesis, Synthesis, structure and spectroscopy of heteropentadienyl-cobalt complexes, **2010**, Washington University, St. Louis, USA.
283. J. W. Herndon, The chemistry of the carbon-transition metal double and triple bond: annual survey covering the year 2009, *Coord. Chem. Rev.* **2011**, 255, 3-100.
284. X.-F. Xiong, H. Zhang, J. Peng, Y.-C. Chen, Direct asymmetric Michael addition of cyclic *N*-sulfonylimines to α,β -unsaturated aldehydes, *Chem. Eur. J.* **2011**, 17, 2358-2360.
285. S. Kotha, V. Seema, S. M. Mobin, Synthesis of biaryl derivatives by using ruthenium-mediated [2+2+2] cyclotrimerization and Suzuki-Miyaura cross-coupling as key steps, *Synthesis* **2011**, 1581-1586.
286. B. M. Trost, M. Osipov, P. S. J. Kaib, M. T. Sorum, Acetoxy meldrum's acid: a versatile acyl anion equivalent in the Pd-catalyzed asymmetric allylic alkylation, *Org. Lett.* **2011**, 13, 3222-3225.
287. H. T. Cao, T. Roisnel, R. Grée, Intramolecular tandem isomerization–Mannich reaction as a new route towards aminocyclopentitols, *Eur. J. Org. Chem.* **2011**, 6405-6408.
288. S.-y. Chen, M. Zhou, J.-f. Dong, N.-f. Yu, Ring closure approaches toward the synthesis of anticancer macrocyclic compounds, *Guangzhou Chemistry* **2011**, 36, 50-62.

289. Maha Abouelghit, Ph. D. thesis, 8-Alkyl Adenines and Their Nucleoside Derivatives, 2011, Graduate Faculty of Auburn University, Auburn, Alabama, USA.
290. Людмила Бец (Liudmila Beț), Ph. D. thesis, Стереоселективный синтез и свойства новых производных (+)-3-карена, **2011**, Кишинев, Молдова.
291. Наталья Павловна Ахметдинова, Ph. D. thesis, Синтетические блоки для циклопентаноидов из D-рибозы и [2+2]-циклоаддукта дихлоркетена и диметилфульвена, **2011**, Институт органической химии Уфимского научного центра РАН, Уфа, Россия.
292. Gregory Ronald Boyce, Ph. D. thesis, Vinylogous Michael cascade reactions employing silyl glyoxylates and silyl glyoximides, **2011**, Chapel Hill.
293. B. M. Trost, D. A. Bringley, P. S. Seng, Enantioselective palladium-catalyzed [3 + 2] cycloadditions of trimethylenemethane with nitroalkenes, *Org. Lett.* **2012**, *14*, 234-237.
294. G. R. Boyce, S. Liu, J. S. Johnson, Construction of cyclopentanol derivatives via three-component coupling of silyl glyoxylates, acetylides, and nitroalkenes, *Org. Lett.* **2012**, *14*, 652-655.
295. G. A. Boyle, C. D. Edlin, Y. Li, D. C. Liotta, G. L. Morgans, C. C. Musonda, Enantioselective synthesis of the carbocyclic nucleoside (-)-abacavir, *Org. Biomol. Chem.* **2012**, *10*, 1870-1876.
296. X.-F. Wu, H. Neumann, Ruthenium and rhodium-catalyzed carbonylation reactions, *ChemCatChem* **2012**, *4*, 447-458.
297. F. Beaumier, M. Dupuis, C. Spino, C. Y. Legault, Formal intramolecular (4+1)-cycloaddition of dialkoxy carbones: control of the stereoselectivity and a mechanistic portrait, *J. Am. Chem. Soc.* **2012**, *134*, 5938-5953.
298. A. Kamimura, K. Miyazaki, S. Suzuki, S. Ishikawa, H. Uno, Total synthesis of ent-calystegine B4 via nitro-Michael/aldol reaction, *Org. Biomol. Chem.* **2012**, *10*, 4362-4366.
299. P. Truong, C. S. Shanahan, M. P. Doyle, Divergent stereocontrol of acid catalyzed intramolecular aldol reactions of 2,3,7-triketoesters: synthesis of highly functionalized cyclopentanones, *Org. Lett.* **2012**, *14*, 3608-3611.

300. S. Hanessian, R. Reddy Vakiti, S. Dorich, S. Banerjee, B. Deschênes-Simard, Total synthesis of Pactamycin and Pactamycate: A detailed account, *J. Org. Chem.* **2012**, *77*, 9458-9472.
301. R. S. Soengas, J. M. Otero, A. M. Estévez, A. P. Rauter, V. Cachatra, J. C. Estévez, R. J. Estévez, An overview of key routes for the transformation of sugars into carbosugars and related compounds, *Carbohydr. Chem.* **2012**, *38*, 263-302.
302. C. Cimarelli, Critical surveys covering the year 2011: Introduction and transformation of functional groups, Seminars in Organic Synthesis, "A. Corbella" Summer School, 37th, E. Marcantoni, G. Renzi, Eds., Gargnano, Italy, June 18-22, 2012 (**2012**), 275-303. Publisher: (Societa Chimica Italiana, Rome, Italy) CODEN:69RJFI ISBN: 978-88-86208-71-0.
303. Tim Herbert Gehrke, Ph. D. thesis, Untersuchungen zum Replikationsverhalten carbozyklischer Analoga der Formamidopyrimidine des 2'-Desoxyadenosin und 2'-Desoxyguanosin, **2012**, Ludwig-Maximilians-Universität München, Germany.
304. G.-Q. Chen, M. Shi, Rhodium-catalyzed tandem Pauson–Khand type reactions of 1,4-enynes tethered by a cyclopropyl group, *Chem. Commun.* **2013**, *49*, 698-700.
305. J. H. Cho, F. Amblard, S. J. Coats, R. F. Schinazi, Synthesis of cyclopentanyl carbocyclic 5-fluorocytosine ((-)5-fluoro-carbodine) using a facially selective hydrogenation approach, *J. Org. Chem.* **2013**, *78*, 723-727.
306. S. Hanessian, R. R. Vakiti, A. K. Chattopadhyay, S. Dorich, C. Lavallée, Probing functional diversity in Pactamycin toward antibiotic, antitumor, and antiprotozoal activity, *Bioorg. Med. Chem.* **2013**, *21*, 1775-1786.
307. W. Chen, J. Wang, Synthesis of pyrrole derivatives from diallylamines by one-pot tandem ring-closing metathesis and metal-catalyzed oxidative dehydrogenation, *Organometallics* **2013**, *32*, 1958-1963.
308. A. Niidu, A. Paju, A.-M. Müürisepp, I. Järving, T. Kailas, T. Pehk, M. Lopp, Stereoselective synthesis of 1-methyl-1,2- and 1,3-cyclopentanediols via γ -lactones, *Chem. Heterocyclic. Comp.* **2013**, *48*, 1751-1760. (*Khimiya Geterotsiklicheskikh Soedinenii* **2012**, 1871-1880.)

309. D. R. Wenz, J. Read de Alaniz, Aza-Piancatelli rearrangement initiated by ring opening of donor-acceptor cyclopropanes, *Org. Lett.* **2013**, *15*, 3250-3253.
310. D. Alvarez-Dorta, E. I. León, A. R. Kennedy, A. Martín, I. Pérez-Martín, C. Riesco-Fagundo, E. Suárez, Sequential Norrish type II photoelimination and intramolecular aldol cyclization of α -diketones: synthesis of polyhydroxylated cyclopentitols by ring contraction of hexopyranose carbohydrate derivatives, *Chem. Eur. J.* **2013**, *19*, 10312-10333.
311. T. Zhang, S. Wu, Y. Cao, Y. Fu, Y. Guo, L. Zhang, L. Li, H. Zhou, X. Liu, C. Li, X. Tang, Z. Zhang, C. Tian, X. Wang, J. Liu, Rapid access to 10-(cyclohexylimino)-7,9-diazaspiro[4.5]decane-6,8-dione derivatives for HIV-1 reverse transcriptase inhibition via ruthenium-catalyzed ring-closing metathesis, *Synthesis* **2013**, *45*, 2273-2279.
312. Hendrik Eijsberg, Ph. D. thesis; Photochemistry of cyclopentenones: Beyond [2+2] photocycloaddition reactions, Universite Paris-SUD 11, UFR Scientifique D'Orsay and Universita Degli Studi Di Cagliari, Facolta Di Scienze Matematiche, Fisiche e Naturali, **2013**.
313. Allan Diidu, Ph. D. thesis, Synthesis of cyclopentane and tetrahydrofuran derivatives, **2013**, Tallinn University of Technology, Estonia.
314. Eva Havráneková, PhD thesis, Study of possibility for synthetic application of Ce(III) complexes supported by cation-exchanger, **2013**, Masaryk University, Brno, Czech Republic.
315. Stéphane Dorich, PhD thesis, Synthèse totale de la pactamycine et d'une sélection d'analogues, progrès vers la synthèse totale de la daphniglaucine C et brève étude d'une transposition allylique réductrice, **2013**, Université de Montréal, Canada.
316. D. J. Aitken, H. Eijsberg, A. Frongia, J. Ollivier, P. P. Piras, Recent progress in the synthetic assembly of 2-cyclopentenones, *Synthesis* **2014**, *46*, 1-24.
317. X. Xu, J. S. Leszczynski, S. M. Mason, P. Y. Zavalij, M. P. Doyle, Expedient access to substituted 3-amino-2-cyclopentenones by dirhodium-catalyzed [3+2]-annulation of silylated ketene imines and enoldiazoacetates, *Chem. Commun.* **2014**, *50*, 2462-2464.

318. S. Hanessian, C. Mu, Yb(OTf)(3)-Mediated ring opening of functionalized cyclopentane epoxides with aniline: aspects of regiochemistry and stereochemistry, *Heterocycles* **2014**, *88*, 1553-1563.
319. B. Schmidt, S. Hauke, S. Krehl, O. Kunz, In *Comprehensive Organic Synthesis II (Second Edition)*; P. Knochel, G. A. Molander (Eds.); **2014**, Elsevier Ltd.; Vol. 5. Combining C–C π -Bonds, Chapter 5.29 Ring-Closing Metathesis, pp. 1400-1482.
320. B. Heasley, Recent developments in the stereocontrolled synthesis of highly substituted cyclopentane core structures: from drug discovery research to natural product synthesis, *Curr. Org. Chem.* **2014**, *18*, 641-686.
321. V. A. Mulamoottil, A. Nayak, L. S. Jeong, Recent advances in the synthesis of carbocyclic nucleosides via ring-closing metathesis, *Asian J. Org. Chem.* **2014**, *3*, 748-761.
322. S. Dörrich, A. Ulmer, C. Mahler, C. Burschka, J. A. Baus, R. Tacke, A. Chai, C. Ding, Y. Zou, G. Brunner, A. Goeke, P. Kraft, Sila- α -galbanone and analogues: synthesis and olfactory characterization of silicon-containing derivatives of the galbanum odorant α -galbanone, *Eur. J. Inorg. Chem.*, **2014**, 4394-4407.
323. G. Preegel, A. Noole, K. Ilmarinen, I. Järving, T. Kanger, T. Pehk, M. Lopp, Enantioselective organocatalytic Michael addition of cyclopentane-1,2-diones to nitroolefins, *Synthesis* **2014**; *46*, 2595-2600.
324. Lukáš Maier, PhD thesis, Synthesis of small-molecule probes for chemical biology, **2014**, Masaryk University, Brno, Slovakia.
325. Phong Minh Truong, PhD thesis, Applications of 2,3-diketoesters in organic synthesis and stereoselective transformations, **2014**, University of Maryland, USA.
326. Xichen Xu, PhD thesis, Diversified reactions of enol diazoacetate in chemical catalysis, **2014**, University of Maryland, USA.
327. J.-L. Jiang, MS Thesis, Brook rearrangement-mediated three-component reactions for the synthesis of α -quaternary α -hydroxy- β -amino esters derivatives, **2014**, University of Chinese Academy of Sciences.

328. M. S. Manna, S. Mukherjee, Catalytic asymmetric desymmetrization approach to enantioenriched cyclopentanes, *Org. Biomol. Chem.* **2015**, *13*, 18-24.
329. H. K. Grover, M. R. Emmett, M. A. Kerr, Carbocycles from donor-acceptor cyclopropanes, *Org. Biomol. Chem.* **2015**, *13*, 655-671.
330. M. S. Manna, S. Mukherjee, Organocatalytic enantioselective formal C(sp²)-H alkylation, *J. Am. Chem. Soc.* **2015**, *137*, 130-133.
331. P. R. Hanson, S. Maitra, R. Chegondi, J. L. Markley, General Ring-Closing Metathesis, in: *Handbook of Metathesis Vol. 2: Applications in Organic Synthesis*, Second Ed., R. H. Grubbs, D. J. O'Leary, (Eds), 2015, Wiley-VCH Verlag GmbH & Co. KGaA, Chapter 1, pp. 1–170.
332. Z. Xu, H. Ren, L. Wang, Y. Tang, Efficient catalytic enantioselective Nazarov cyclizations of divinyl ketoesters, *Org. Chem. Front.* **2015**, *2*, 811-814.
333. J.-R. Chen, X.-Q. Hu, L.-Q. Lu, W.-J. Xiao, Formal [4+1] annulation reactions in the synthesis of carbocyclic and heterocyclic systems, *Chem. Rev.* **2015**, *115*, 5301–5365.
334. H. Guo, M. Xie, Y. Wang, J. Li, C. Du, Y. Zhang, E.-J. Hao, Y. Zhang, G. Qu, A straightforward entry to chiral carbocyclic nucleoside analogues via enantioselective [3+2] cycloaddition of α-nucleobase substituted acrylates, *Chem. Commun.* **2015**, *51*, 12451-12454.
335. G. K. Veits, D. R. Wenz, L. I. Palmer, A. H. St. Amant, J. E. Hein, J. Read de Alaniz, Cascade rearrangement of furylcarbinols with hydroxylamines: practical access to densely functionalized cyclopentane derivatives, *Org. Biomol. Chem.* **2015**, *13*, 8465-8469.
336. O. Rousseau, T. Delaunay, G. Dequirez, T. Trieu-Van, K. Robeyns, R. Robiette, Formal asymmetric (4+1) annulation reaction between sulfur ylides and 1,3-dienes, *Chem. Eur. J.* **2015**, *21*, 12899-12902.
337. S. Das, A. Panda, S. Pal, A common and versatile synthetic route to (-) & (+) Pentenomycin I, (+) Halopentenomycin I and Dehydropentenomycin, *Carbohydr. Res.* **2015**, *416*, 24-31.

338. Y. Zhang, Y. An, J. Sun, A. Ding, Y. Wang, R. Rios, H. Guo, Catalyst-free photocyclopropanation of dibromomalonates with alkenes: an approach to multisubstituted cyclopropanes, *Tetrahedron Lett.* **2015**, *56*, 6499-6502.
339. H.-C. Liu, K. Liu, Z.-Y. Xue, Z.-L. He, C.-J. Wang, Silver(I)-catalyzed enantioselective desymmetrization of cyclopentenediones: access to highly functionalized bicyclic pyrrolidines, *Org. Lett.* **2015**, *17*, 5440-5443.
340. E. M. Budynina, O. A. Ivanova, A. O. Chagarovskiy, Y. K. Grishin, I.r V. Trushkov, M. Ya. Melnikov, Formal [3+2]-cycloaddition of donor-acceptor cyclopropanes to 1,3-dienes: cyclopentane assembly, *J. Org. Chem.* **2015**, *80*, 12212-12223.
341. Huck K. Grover, PhD thesis, Exploring the reactivity of donor-acceptor cyclopropanes and the synthesis of (+/-)-Quebrachamine, **2015**, The University of Western Ontario, Canada.
342. Elodie Martinand-Lurin, PhD thesis, Hétérocycles et réactions pallado-catalysées: développements méthodologiques, études mécanistiques et application en synthèse totale, 2015, Université Paris-Sud, France.
343. M. Petrović, E. G. Occhiato, Pentannulation of heterocycles by virtue of precious metal catalysis, *Chem. Asian J.* **2016**, *11*, 642-659.
344. L. Yao, Q. Zhu, L. Wei, Z.-F. Wang, C.-J. Wang, Dysprosium(III)-catalyzed ring-opening of *meso*-epoxides: desymmetrization by remote stereocontrol in a thiolysis/elimination sequence, *Angew. Chem. Int. Ed.* **2016**, *55*, 5829-5833.
345. Y. Lv, K. Sun, T. Wang, Y. Wu, G. Li, W. Pu, S. Mao, Intermolecular C–N cross-coupling reactions catalyzed by tetra-*n*-butylammonium iodide: synthesis of allylic *N*-heterocycles, *Asian J. Org. Chem.* **2016**, *5*, 325-329.
346. D. L. Re, L. Jones, E. Giralt, P. V. Murphy, Synthesis of an orthogonally protected polyhydroxylated cyclopentene from L-sorbose, *Chem. Asian J.* **2016**, *11*, 2035-2040.
347. A. Panda, R. G. Biswas, S. Pal, A unified and common intermediate strategy for the asymmetric total synthesis of 3-deoxy-*neo*-inositol and conduritol E, *Tetrahedron Lett.* **2016**, *57*, 3625-3628.

348. M. S. Manna, R. Sarkar, S. Mukherjee, Enantioselective formal C(sp₂)-H vinylation, *Chem. Eur. J.* **2016**, 22, 14912-14919.
349. N. A. Eddy, P. Ichalkaranje, Methodology for the Construction of the Bicyclo[4.3.0]nonane Core, *Molecules* **2016**, 21, 1358, 23 pp.
350. X. Mao, P. Song, Y. Hao, Z. Sun, X. Hu, Stereocontrolled [4+1] annulation of α -hydroxycyclobutenones: synthesis of polysubstituted cyclopentenones, *Adv. Synth. Catal.*; doi: 10.1002/adsc.201600670
- D. Nedeltcheva, V. Kurteva, I. Topalova, Gas phase tautomerism in hydroxy azo dyes – from 4-phenylazo-1-phenol to 4-phenylazo-antracene-1-ol, *Rapid Commun. Mass Spectrom.* **2010**, 24, 714-720.
351. J. Y. Hong, N. H. Park, K. H. Yoo, J. Hong, Comprehensive impurity profiling and quantification of 5 Sudan III dyes by gas chromatography/mass spectrometry, *J. Chromatogr. A* **2013**, 1297, 186-195.
352. L. Duarte, B. M. Giuliano, I. Reva, R. Fausto, Tautomers and UV-induced photoisomerization of a strongly intramolecularly H-bonded aromatic azo-dye: 1-(cyclopropyl)diazo-2-naphthol, *J. Phys. Chem. A* **2013**, 117, 10671-10680.
353. M. A. Rauf, S. Hisaindee, N. Saleh, Spectroscopic studies of keto–enol tautomeric equilibrium of azo dyes, *RSC Adv.* **2015**, 5, 18097-18110.
354. S.-T. Lin, L.-H. Lin, Y.-C. Lin, M.-F. Ding, Substituent effect on the tautomerization of 1-arylazonaphthalen-2-ols by mass spectrometric analysis, *J. Chinese Chem. Soc.* **2015**, 62, 257-262.
355. L. Antonov, P. E. Hansen, G. van der Zwan, Comment on “Spectroscopic studies of keto–enol tautomeric equilibrium of azo dyes” by M. A. Rauf, S. Hisaindee and N. Saleh, *RSC Adv.*, 2015, **5**, 18097, *RSC Adv.* **2015**, 5, 67165-67167.
356. R. Patel, S. Sahoo, MSc Thesis, Effect of solvent on azo-hydrazone tautomerism of 2-hydroxy-5-(4-nitrophenylazo)benzaldehyde, **2015**, National Institute of Technology, Rourkela, India.

L. M. Antonov, V. B. Kurteva, S. P. Simeonov, V. V. Deneva, A. Crochet, K. Fromm, Tautocrowns: A concept for a sensing molecule with an active side-arm, *Tetrahedron* **2010**, *66*, 4292-4297.

357. M. Tian, H. Ihmels, Selective colorimetric detection of Hg^{2+} and Mg^{2+} with crown ether substituted *N*-aryl-9-aminobenzo[*b*]quinolizinium derivatives, *Eur. J. Org. Chem.* **2011**, 4145-4153.
358. G. R. Newkome, Eight-membered and larger rings, In *Progress in Heterocyclic Chemistry*, G. W. Gribble, J. Joule, Eds.; Elsevier Ltd., **2011**, Vol. 23, Chapter 8, 505-524.
359. M. Zarei, A. Jarrahpour, Green and efficient synthesis of azo Schiff bases, *Iranian J. Sci. Technol.* **2011**, *A3*, 235-242.
360. Q. Zhang, J. Xu, Two chemosensors based on the fluorescent group armed-azacrown ether, *Acta Chim. Sinica* **2011**, *69*, 2287-2292.
361. A. R. Todorov, M. Nieger, J. Helaja, Tautomeric switching and metal-cation sensing of ligand-equipped 4-hydroxy-4-oxo-1,4-dihydroquinolines, *Chem. Eur. J.* **2012**, *18*, 7269-7277.
362. H. H. Eissa, Synthesis and characterization of new azo-schiff bases and study biological activity, *J. Curr. Res. Sci.* **2013**, *1*, 96-103.
363. H. H. Eissa, K. Hamak, Synthesis of azo-schiff bases, their thermal behavior study, and using in extraction of copper (Cu^{2+}), *J. Curr. Res. Sci.* **2013**, *1*, 276-281.
364. H. H. Eissa, K. Hamak, Synthesis of azo-schiff bases, their thermal behavior study, and using in extraction of copper (Cu^{2+}), *J. Curr. Res. Sci.* **2013**, *1*, 385-391.
365. H. H. Eissa, Synthesis and characterization of new azo-schiff bases and study biological activity, *J. Curr. Res. Sci.* **2013**, *1*, 444-450.
366. H. H. Eissa, Synthesis of new macrocyclic Schiff base ligands and investigation of their ion extraction capability from aqueous media, *Int. J. Curr. Res. Chem. Pharm. Sci.* **2014**, *1*, 65-76.

367. H. H. Eissa, Extraction of Cr(III), Co(II), Cd(II) ions and determination of kinetic parameters for azo-Schiff bases depending on extraction technique, *Int. J. Curr. Res. Chem. Pharm. Sci.* **2015**, 2, 84-94.
368. W. M. F. Fabian, S. T. Ali, Design of molecular switches and sensors based on proton transfer - Theory vs. Experiment, *AIP Conf. Proc.* **2015**, 1642, 465-468.
369. H. Maki, D. Kataoka, M. Mizuhata, ^{15}N and ^{31}P NMR insights into lactam-lactim tautomerism activity using cyclo- μ -imidopolyphosphates, *J. Phys. Chem. B* **2015**, 119, 12289-12298.
370. A. D. Dubonosov, V. A. Bren, V. I. Minkin, Enolimine-Ketoenamine Tautomerism for Chemosensing, in Tautomerism: Concepts and Applications in Science and Technology, L. Antonov, ed., **2016**, Wiley-VCH Verlag GmbH & Co. KGaA, Weinheim, Germany, chapter 10, pp. 229-252.
371. E. Wagner-Wysiecka, M. Szarmach, J. Chojnacki, N. Łukasik, E. Luboch, Cation sensing by diphenyl-azobenzocrowns, *J. Photochem. Photobiol. A: Chem.* **2017**, 333, 220-232.
372. Аль-Саиди Мохаммед Забун Тхани, PhD thesis, Таутомерия и экстракционно-фотометрическое определение фенилазонафтолов с применением смешанных мицелл поверхностно-активных веществ, **2016**, ФГБОУ ВПО Саратовский Государственный Университет имени Н. Г. Чернышевского, Саратов.

S. P. Simeonov, A. P. Simeonov, A. R. Todorov, V. B. Kurteva, Enantioresolution of a series of chiral benzyl alcohols by HPLC on a dinitrobenzoylphenylglycine stationary phase after achiral pre-column derivatization, *Am. J. Anal. Chem.* **2010**, 1, 1-13.

373. R. Wu, J. R. Sowa, Jr., Fast, direct and acetonitrile-free high-performance liquid chromatographic enantioseparation of chiral benzyl alcohols under reversed-phase mode, *Energizing Analytical Solutions, Eastern Analytical Symposium and Exposition*, Garden State Exhibit Center, November 12-15, **2012**, Technical paper 35.

V. B. Kurteva, S. P. Simeonov, M. Stoilova-Disheva, Symmetrical acyclic aryl aldazines with antibacterial and antifungal activity, *Pharmacology & Pharmacy* **2011**, 2, 1-9.

374. J. Fathi, V. Masand, R. Jawarkar, R. Mouhoub, T. B. Hadda, POM as efficient tools to predict and improve both antibacterial and antifungal activity of aryl aldazines, *J. Comput. Method. Mol. Design* **2011**, 1, 57-68.
375. B. Lee, S. H. Kang, D. Kang, K. H. Lee, J. Cho, W. Nam, O. H. Han, N. H. Hur, Isolation and structural characterization of the elusive 1:1 adduct of hydrazine and carbon dioxide, *Chem. Commun.* **2011**, 47, 11219-11221.
376. B. Lee, K. H. Lee, J. Cho, W. Nam, N. H. , Synthesis of azines in solid state: reactivity of solid hydrazine with aldehydes and ketones, *Org. Lett.* **2011**, 13, 6386-6389.
377. M. A. Nagpal, N. Nagpal, S. Rahar, G. Shah, G. Swami, R. Kapoor, Phytochemical investigation of methanolic extract of *Cassia fistula* leaves, *Pharmacognosy J.* **2011**, 61-69.
378. M.-N. Zhao, H. Liang, Z.-H. Ren, Z.-H. Guan, Copper-catalyzed N-N bond formation by homocoupling of ketoximes via N-O bond cleavage: facile, mild, and efficient synthesis of azines, *Synthesis* **2012**, 44, 1501-1506.
379. R. Bayrak, H. T. Akçay, M. Pişkin, M. Durmuş, İ. Değirmencioğlu, Azine-bridged binuclear metallophthalocyanines functioning photophysical and photochemical-responsive, *Dyes Pigm.* **2012**, 95, 330-337.
380. J. Pinto, V. L. M. Silva, A. M. S. Silva, R. M. Claramunt, D. Sanz, M. C. Torralba, M. R. Torres, F. Reviriego, I. Alkorta, J. Elguero, Azines derived from C-formyl-1*H*-imidazoles: synthesis and structural studies in solution and solid state NMR, *Natural Products and related Redox Catalysts: Basic Research and Applications in Medicine and Agriculture*, November 25-27, 2012, Aveiro, Portugal, P16, Book of Abstracts, p. 47.
381. R. Bayrak, F. Dumludağ, H. T. Akçay, İ. Değirmencioğlu, Synthesis, characterization and electrical properties of peripherrally tetra-aldazine substituted novel metal free phthalocyanine and its zinc(II) and nickel(II) complexes, *Spectrochim. Acta Part A: Mol. Biomol. Spectr.* **2013**, 105, 550-556.

382. J. Pinto, V. L. M. Silva, A. M. S. Silva, R. M. Claramunt, D. Sanz, M. C. Torralba, M. R. Torres, F. Reviriego, I. Alkorta, J. Elguero, The structure of azines derived from *C*-formyl-*1H*-imidazoles in solution and in the solid state: tautomerism, configurational and conformational studies, *Magn. Reson. Chem.* **2013**, *51*, 203-221.
383. A. B. Souza, M. A. R. C. Alencar, S. H. Cardoso, M. S. Valle, R. Diniz, J. M. Hickmann, Frequency upconversion and two-photon absorption of salicylaldehyde azine, *Opt. Mater.* **2013**, *35*, 2535-2539.
384. F. N. F. How, A. M. Nurfathiah, S. J. A. Ichwan, Synthesis and characterization of various type of Azines as potential bioactive agents; 2nd International Conference on Environment, Chemistry and Biology (IPCBEE), 13th - 14th Dec. **2013**, Stockholm, Sweden; *International Proceedings of Chemical, Biological and Environmental Engineering* **2013**, *59*, 45-49.
385. Andreza Silva Figueiredo, MSc Thesis, Planejamento, síntese e avaliação da atividade anticolinesterásica de análogos de piperina, **2013**, Universidade Estadual de Goiás, Anápolis – GO, Brazil.
386. Amadeu Bandeira de Souza, PhD Thesis, Conversão ascendente de frequências e absorção não linear de Salicilaldeído azina, **2013**, Universidade Federal de Alagoas, Maceió, Brazil.
387. M. Jha, G. M. Shelke, A. Kumar, Catalyst-free one-pot tandem reduction of oxo and ene/yne functionalities by hydrazine: synthesis of substituted oxindoles from isatins, *Eur. J. Org. Chem.* **2014**, 3334-3336.
388. R. Arulmani, PhD Thesis, Synthesis, Spectral and Computational Analysis of Some Novel Azines, **2014**, Annamalai University, India.
389. R. Arulmani, R. Balachander, P. Vijaya, K. R. Sankaran, Spectral and conformational studies on 3-pyridinealdazine by DFT approach, *Spectrochim. Acta* **2015**, *138*, 660-666.
390. M. Emirik, K. Karaoğlu, K. Serbest, U. Çoruh, E. M. Vazquez Lopez, Two novel unsymmetrical ferrocene based azines and their complexing abilities towards Cu(II): spectroscopy, crystal structure, electrochemistry and DFT calculations, *Polyhedron* **2015**, *88*, 182-189.

391. E. M. Afsah, S. S. Elmorsy, S. M. Abdelmageed, Z. E. Zaki, Synthesis of some new mixed azines, Schiff and Mannich bases of pharmaceutical interest related to isatin, *Z. Naturforsch.* **2015**, *70b*, 393-402.
392. V. R. Rajewar, M. K. Dharmale, S. R. Pingalkar, Synthesis and spectroscopic investigation of Schiff base complexes of lanthanides(III), *Asian J. Chem.* **2015**, *27*, 2865-2868.
393. Miria Moreira Costa, PhD Thesis, Síntese de azinas assistida por micro-ondas e avaliação da atividade anticolinesterásica, **2015**, Universidade estadual de Goiás, Unidade universitária de ciências exatas e tecnológicas, Anápolis-GO, Brazil
394. Leonardo Rodrigues de Almeida, PhD Thesis, Estudo estrutural de duas aldazinas e de uma aminoactalona, **2015**, Universidade estadual de Goiás, Campus de ciências exatas e tecnológicas, Anápolis-GO, Brazil.
395. D Doddramappa Shridevi, Srikantamurthy Ningaiah, Narayan U Kuduva, Raad K Yhya, Kuduva M Lokanatha Rai, Solvent free green synthesis of azines and their conversion to 2,5-disubstituted-1,3,4-thiadiazoles, *Synth. Commun.* **2015**, *45*, 2869-2875.
396. J. Safari, S. Gandomi-Ravandi, S. Shariat, Tungsten hexachloride nanoparticles loaded on montmorillonite K-10: a novel solid acid catalyst in the synthesis of symmetrical and unsymmetrical azines, *J. Iranian Chem. Soc.* **2016**, *13*, 1499-1507.
397. J. Yang, J. Rui, X. Xu, Y. Yang, J. Su, H. Xu, Y. Wang, N. Sun, S. Wang, Fluorescence staining of salicylaldehyde azine, and applications in the determination of potassium *tert*-butoxide, *RSC Adv.* **2016**, *6*, 30636-30641.
398. Z.-G. Luo, P. Liu, Y.-Y. Fang, X.-M. Xu, C.-T. Feng, Z. Li, X.-M. Zhang, J. He, Cs_2CO_3 -mediated decomposition of *N*-tosylhydrazones for the synthesis of azines under mild conditions, *Res. Chem. Intermed.*; doi:10.1007/s11164-016-2688-3.

D. Nedeltcheva, V. Kurteva, L. Antonov, Gas phase study of molecular switches based on tautomeric proton transfer, *Eur. J. Mass Spectrom.* **2011**, *17*, 47-56.

399. N. Sadlej-Sosnowska, Switching properties of Li-benzene complexes in a uniform electric field: a case where a “small” change makes a big difference, *Phys. Chem. Chem. Phys.* **2015**, *17*, 23716-23719.
400. Аль-Саиди Мохаммед Забун Тхани, Таутомерия и экстракционно-фотометрическое определение фенилазонафтолов с применением смешанных мицелл поверхностно-активных веществ, ФГБОУ ВПО Саратовский Государственный Университет имени Н. Г. Чернышевского, Саратов, **2016**.

M. Atanassova, V. Kurteva, L. Lubenov, Synergistic effect in the solvent extraction and separation of lanthanoids by 4-(4-fluorobenzoyl)-3-methyl-1-phenyl-pyrazol-5-one in the presence of monofunctional neutral organophosphorus extractants, *Ind. Eng. Chem. Res.* **2011**, *50*, 12170-12176.

401. B. N. Kumar, B. R. Reddy, M. L. Kantam, J. R. Kumar, J. Y. Lee, Synergistic solvent extraction of neodymium(III) from chloride solutions using mixture of triisooctylamine and bis(2,4,4-trimethylpentyl) monothiophosphinic acid, *Sep. Sci. Technol.* **2014**, *49* 130-136.
402. H. Wang, W. Qin, Y.-g. Li, W. Fei, Distributions of hydrochloric acid between water and organic solutions of tri-n-octylphosphine oxide: thermodynamic modeling, *Ind. Eng. Chem. Res.* **2014**, *53*, 12111-12121.
403. K. Liu, X. Chen, L. Kuang, H. Long, Separation of neodymium, praseodymium and cerium, lanthanum with p507 from chloride solutions, *6th International Conference on Hydrometallurgy (ICHM2014)*, October 16-18, 2014, Beijing, China, 2-26, Book of Abstracts, p. 74.
404. Nandita Panda, Ph. D. thesis, Solvent extraction of praseodymium and neodymium using organophosphorous extractants, **2014**, Institute of Technical Education and Research Siksha ‘O’ Anusandhan University, Bhubaneswar, India.
405. Y. Li, J. Hu, M. Fu, J. Tang, L. Dong, S. Liu, Investigation of intermolecular interactions of mixed extractants of quaternary phosphonium or ammonium

- chlorides and bis(2,4,4-ethylhexyl)phosphoric acid for metal separation, *RSC Adv.* **2016**, *6*, 56772-56779.
406. D. Yu, R. Du, S. Zhang, R. Lu, H. A. & J.-C. Xiao, Prediction of solubility properties from transfer energies for acidic phosphorus-containing rare-earth extractants using implicit solvation model, *Solv. Extr. Ion Exch.* **2016**, *34*, 347-354.
- V. B. Kurteva, A. R. Todorov, M. Stoylova-Dicheva, Naphthylethylamines as chiral auxiliaries in a stereoselective *trans*- β -lactam formation *via* Staudinger cycloaddition, *Arkivoc* **2011** (xi), 198-212.
407. M. T. Aranda, P. Pérez-Faginas, R. González-Muñiz, An update on the synthesis of β -lactams, *Adv. Org. Synth.* **2013**, *6*, 2013, 296-354.
408. Ricardo Callejo Martínez, DSc thesis; Funcionalización de carbonil- β -lactamas mediante reacciones de adición y procesos multicomponente. Aplicación a la síntesis de heterociclos de interés biológico, Universidad Complutense de Madrid, Facultad de Ciencias Químicas, Departamento de Química Orgánica I, Madrid, Spain, **2013**.
- L. Antonov, V. Kurteva, A. Crochet, L. Mirolo, K. M. Fromm, S. Angelova, Tautomerism in 1-phenylazo-4-naphthols: experimental results vs quantum-chemical predictions, *Dyes Pigm.* **2012**, *92*, 714-723.
409. Z. Seferoğlu, F. B. Kaynak, N. Ertan, S. Özbey, Hetarylazoindoles 2. Spectroscopic and structural investigation of new benzothiazolylazo indole dyes, *J. Mol. Struct.* **2013**, *1047*, 22-30.
410. A. S. Beni, Z. J. Chermahini, Theoretical studies on tautomerism of 1H-pyrazole-5-thiol, *Struct. Chem.* **2013**, *24*, 1713-1723.
411. A. N. Chermhini, M. Abedi, H. Farrokhpour, A. Teimouri, B. Reisi, Theoretical studies on the tautomerism of tetrazole selenone, *J. Mol. Model.* **2013**, *19*, 4377-4386.

412. L. Zhang, J. M. Cole, X. Liu, Tuning solvatochromism of azo dyes with intramolecular hydrogen bonding in solution and on titanium dioxide nanoparticles, *J. Phys. Chem. C* **2014**, *117*, 26316-26323.
413. W. M. F. Fabian, Quantum Chemical Calculation of Tautomeric Equilibria, in *Tautomerism: Methods and Theories*, Ed. L. Antonov, Wiley VCH, **2013**, 337-368.
414. J. Mirković, J. Rogan, D. Poleti, V. Vitnik, Ž. Vitnik, G. Ušćumlić, D. Mijin, On the structures of 5-(4-, 3- and 2-methoxyphenylazo)-3-cyano-1-ethyl-6-hydroxy-4-methyl-2-pyridone: an experimental and theoretical study, *Dyes Pigm.* **2014**, *104*, 160-168.
415. G. Cui, P.-J. Guan, W.-H. Fang, Photoinduced proton transfer and isomerization in a hydrogen-bonded aromatic azo compound: a CASPT2//CASSCF study, *J. Phys. Chem. A* **2014**, *118*, 4732-4739.
416. B. Babür, N. Seferoğlu, E. Aktan, T. Hökelek, E. Şahin, Z. Seferoğlu, Phenylazoindole dyes 3: Determination of azo-hydrazone tautomers of new phenylazoindole dyes in solution and solid state, *J. Mol. Structr.* **2015**, *1081*, 175-181.
417. P.-J. Guan, G. Cui, Q. Fang, Computational photochemistry of the azobenzene scaffold of Sudan I and Orange II dyes: excited-state proton transfer and deactivation via conical intersections, *ChemPhysChem* **2015**, *16*, 805-811.
418. Аль-Саиди Мохаммед Забун Тхани, Таутомерия и экстракционно-фотометрическое определение фенилазонафтолов с применением смешанных мицелл поверхностно-активных веществ, ФГБОУ ВПО Саратовский Государственный Университет имени Н. Г. Чернышевского, Саратов, **2016**.

V. B. Kurteva, L. M. Antonov, D. V. Nedeltcheva, A. Crochet, K. M. Fromm, R. P. Nikolova, B. L. Shivachev, M. S. Nikiforova, Switching azonaphthols containing a side chain with limited flexibility. Part 1. Synthesis and tautomeric properties, *Dyes Pigm.* **2012**, *92*, 1266-1277.

419. L. Duarte, B. M. Giuliano, I. Reva, R. Fausto, Tautomers and UV-induced photoisomerization of a strongly intramolecularly H-bonded aromatic azo-dye: 1-(cyclopropyl)diazo-2-naphthol, *J. Phys. Chem. A* **2013**, *117*, 10671-10680.
420. Аль-Саиди Мохаммед Забун Тхани, Таутомерия и экстракционно-фотометрическое определение фенилазонафтолов с применением смешанных мицелл поверхностно-активных веществ, ФГБОУ ВПО Саратовский Государственный Университет имени Н. Г. Чернышевского, Саратов, **2016**.

S. Piçarra, C. A. M. Afonso, V. B. Kurteva, A. Fedorov, J. M. G. Martinho, J. P. S. Farinha, The influence of nanoparticle architecture on latex film formation and healing properties, *J. Colloid Interface Sci.* **2012**, *368*, 21-33.

421. I. Hasanzadeh, A. R. Mahdavian, H. Salehi-Mobarakeh, Particle size and shell composition as effective parameters on MFFT for acrylic core–shell particles prepared via seeded emulsion polymerization, *Progr. Org. Coating* **2014**, *77*, 1874-1882.
422. S. Ghasemirad, N. Mohammadi, How do soft nanoparticles affect temperature-induced nonlinearity of a UCST copolymer blend? *Colloid Polym. Sci.* **2015**, *293*, 677-686.

M. Atanassova, V. Kurteva, L. Lubenov, S. Varbanov, I. Dukov, Behavior of mixed systems based on para-substituted 4-aryl-5-pyrazolones in the presence of phosphorus containing calix[4]arene towards lanthanoids: synergistic solvent extraction and separation, *Sep. Purif. Technol.* **2012**, *95*, 58-63.

423. Y. Lu, Y. Bi, Y. Baia, W. Liao, Extraction and separation of thorium and rare earths from nitrate medium with *p*-phosphorylated calixarene, *J. Chem. Technol. Biotechnol.* **2013**, *88*, 1836-1840.

424. Y. Lu, Y. Li, Y. Bi, W. Liao, Extraction and separation of rare earths from nitrate medium by mixtures of *p*-phosphorylated calixarene and 1-phenyl-3-methyl-4-benzoyl-pyrazalone-5, *Chin. J. Chem.* **2014**, 32, 1077-1082.
425. A.-I. Galaction, A.-S. Bompa, L. Kloetzer, M. A. Turnea, D. Cascaval, Synergic extraction and transport of folic acid through liquid membranes, *Sovent Extr. Ion Exc.* **2015**, 33, 313-328.
426. K. Arora, P. Kumar Gupta, S. K. Mishra, Spectral simulation studies of organic components— a review, *IOSR J. Appl. Chem. (IOSR-JAC)* **2015**, 8, 64-86.
427. R. Safarbali, M. R. Yaftian, A. Zamani, Solvent extraction-separation of La(III), Eu(III) and Er(III) ions from aqueous chloride medium using carbamoyl-carboxylic acid extractants, *J. Rare Earths* **2016**, 34, 91-98.
428. A.-I. Galaction, M. Poștaru, A.-C. Blaga, A.-S. Bompa, D. Cașcaval, Synergic Effects on Pantothenic Acid Extraction and Transport through Liquid Membranes, *Bull. Chem. Soc. Japan* **2016**, 89, 33-41.

V. B. Kurteva, L. A. Lubenov, D. V. Nedeltcheva, R. P. Nikolova, B. L. Shivachev, Fast and efficient direct conversion of 2-aminopyridine into 2,3-disubstituted imidazo[1,2-a]pyridines, *Arkivoc* **2012** (viii), 282-294.

429. I. B. Rozentsveig, V. Y. Serykh, G. N. Chernysheva, K. A. Chernyshev, E. V. Kondrashov, E. V. Tretyakov, G. V. Romanenko, One-pot synthesis of *N*-(imidazo[1,2-*a*]pyridin-3-yl)- and *N*-(imidazo[2,1-*b*][1,3]thiazol-5-yl)sulfonamides, *Eur. J. Org. Chem.* **2013**, 368-375.
430. T. L. S. Kishbaugh, Chapter 5.1. Six-membered ring systems: pyridine benzo derivatives, *Prog. Het. Chem.* **2013**, 25, 319-355.
431. K. Pericherla, P. Kaswan, K. Pandey, A. Kumar, Recent developments in the synthesis of imidazo[1,2-*a*]pyridines, *Synthesis* **2015**, 47, 887-912.
432. S. Kundu, B. Basu, Graphene oxide (GO)-catalyzed multi-component reactions: green synthesis of library of pharmacophore 3-sulfenylimidazo[1,2-*a*]pyridines, *RSC Adv.* **2015**, 5, 50178-50185.

433. T. A. Alanine, W. R. J. D. Galloway, S. Bartlett, J. J. Ciardiello, T. M. McGuire, D. R. Spring, Concise synthesis of rare pyrido[1,2-*a*]pyrimidin-2-ones and related nitrogen-rich bicyclic scaffolds with a ring-junction nitrogen, *Org. Biomol. Chem.* **2016**, *14*, 1031-1038.
434. D. S. Wagare, M. Farooqui, T. D. Keche, A. Durrani, Efficient and green microwave-assisted one-pot synthesis of azaindolizines in PEG-400 and water, *Synth. Commun.* **2016**, *46*, 1741-1746.
- V. Deneva, Y. Manolova, L. Lyubenov, V. Kuteva, F. S. Kamounah, R. Nikolova, B. Shivachev, L. Antonov, Controlled shift in the tautomeric equilibrium of 4-((phenylimino)methyl)naphthalen-1-ol, *J. Mol. Structure* **2013**, *1036*, 267-273.
435. K. Baghdouche, S. Mosbah, Y. Belhocine, L. Bencharif, Zwitterionic 1-{(E)-[(2-methylphenyl)-iminiumyl]methyl}naphthalen-2-olate, *Acta Cryst E* **2014**, *E70*, 0676.
- A. Ahmedova, S. P. Simeonov, V. B. Kurteva, L. Antonov, Tautomerism of 4,4'-dihydroxy-1,1'-naphthaldazine studied by experimental and theoretical methods, *Chem. Central J.* **2013**, *7*, 29.
436. K. Fletcher, S. Farajia, A. Dreuw, Potential energy surfaces and approximate kinetic model for the excited state dynamics of Pigment Yellow 101, *Comput. Theor. Chem.* **2014**, *1040-1041*, 177-185.
437. B. Abbas, Y. T. Salman, Study of photo-induced dichroism in Sudan III doped in poly(methyl methacrylate) thin films, *Acta Physica Polonica A* **2015**, *127*, 780-786.
438. L. George, A. K. Kunhikannan, R. Illathvalappil, D. Ottoor, C. Manikandan, S. Kurungot, R. Nandini Devi, Understanding electron transfer process in ZnO-naphthol azobenzoic acid composites from photophysical characterisations, *Phys. Chem. Chem. Phys.* **2016**, *18*, 22179-22187.

439. Katharyn M. Fletcher, PhD thesis, Quantum chemical study of excited state proton transfer in solvated organic molecules, **2016**, Ruprecht-Karls-Universität Heidelberg, Germany.

L. Antonov, V. Deneva, V. Kurteva, D. Nedeltcheva, A. Crochet, K. M. Fromm, Controlled tautomerism – a switching caused by an “underground” anionic effect, *RSC Adv.* **2013**, 3, 25410-25416.

440. E. Wagner-Wysiecka, M. Szarmach, J. Chojnacki, N. Łukasik, E. Luboch, Cation sensing by diphenyl-azobenzocrowns, *J. Photochem. Photobiol. A: Chem.* **2017**, 333, 220-232.

V. B. Kurteva, L. A. Lubenov, D. V. Antonova, On the mechanism of the direct acid catalyzed formation of 2,3-disubstituted imidazo[1,2-a]pyridines from 2-aminopyridines and acetophenones. A concurrence between ketimine and Ortoleva-King type reaction intermediated transformations, *RSC Adv.* **2014**, 4, 175-184.

441. K. Pericherla, P. Kaswan, K. Pandey, A. Kumar, Recent developments in the synthesis of imidazo[1,2-a]pyridines, *Synthesis* **2015**, 47, 887-912.

442. K.-M. Wang, Y.-L. Ma, X.-R. Lin, S.-Jiao Yan, J. Lin, Regioselective synthesis of pyrrolo[1,2-a]imidazoles and imidazo[1,2-a]-pyridines, *RSC Adv.* **2015**, 5, 36472-36479.

443. S. Kundu, B. Basu, Graphene oxide (GO)-catalyzed multi-component reactions: green synthesis of library of pharmacophore 3-sulfenylimidazo[1,2-a]pyridines, *RSC Adv.* **2015**, 5, 50178-50185.

444. A. Subbarayappa, C. Darapanenei, C. Ravi, Dual role of p-tosylchloride: copper-catalyzed sulfenylation and metal free methylthiolation of imidazo[1,2-a]pyridines, *Org. Biomol. Chem.* **2016**, 14, 2282-2290.

M. Atanassova, V. Kurteva, L. Lubenov, I. Billard, Comparing extraction, synergism and separation of lanthanoids by use of acidic and neutral compounds in chloroform and one ionic liquid: Is the latter always “better”? *RSC Adv.* **2014**, *4*, 38820-38829.

445. H.-C. Hu, Y.-H. Liu, B.-L. Li, Z.-S. Cui, Z.-H. Zhang, Deep eutectic solvent based on choline chloride and malonic acid as an efficient and reusable catalytic system for one-pot synthesis of functionalized pyrroles, *RSC Adv.* **2015**, *5*, 7720-7728.
 446. H.-w. Liu, T. Yang, Q.-d. Chen, X.-h. Shen, Extraction behaviors of ionic liquid systems and application perspectives in reprocessing of spent nuclear fuel, *J. Nucl. Radiochem.* **2015**, *37*, 286-309.
 447. R. B. Gujar, S. A. Ansari, A. Sengupta, M. S. Murali, P. K. Mohapatra, Extractive complexation of lanthanides and Am(III) by 1-phenyl-3-methyl-4-benzoyl-5-pyrazolone in ionic liquid: Solvent extraction and spectroscopic studies, *Inorg. Chem. Commun.* **2016**, *73*, 72-76.
 448. M. Y. Alyapyshev, V. A. Babain, Y. A. Ustyryuk, Recovery of minor actinides from high-level wastes: modern trends, *Russ. Chem. Rev.* **2016**, *85*, 943-961.
- V. B. Kurteva, M. A. Petrova, Synthesis of 3-methyl-4-(4-methylbenzoyl)-1-phenyl-pyrazol-5-one. How to avoid O-acylation, *J. Chem. Educ.* **2015**, *92*, 382-384.
449. F. Marchetti, R. Pettinari, C. Pettinari, Recent advances in acylpyrazolone metal complexes and their potential applications, *Coord. Chem. Rev.* **2015**, *303*, 1-31.
- Y. Manolova, V. Kurteva, L. Antonov, H. Marciniak, S. Lochbrunner, A. Crochet, K. M. Fromm, F. S. Kamounah, P. E. Hansen, 4-Hydroxy-1-naphthaldehydes: proton transfer or deprotonation, *Phys. Chem. Chem. Phys.* **2015**, *17*, 10238-10249.
450. A. El-Amri, S. A. Elroby, O. Kühn, R. H. Hilal, Toward understanding tautomeric switching in 4-hydroxynaphthaldehyde and its dimers: A DFT and

- quantum topology study, *J. Theor. Comput. Chem.* **2015**, *14*, Article 1550016, 23 pp.
451. A. El-Amri, S. A. Elroby, O. Kühn, R. H. Hilal, Towards understanding tautomeric switching in hydroxynaphthaldehydes. Characterization of electronic absorption spectra, *J. Theor. Comput. Chem.* **2015**, *14*, Article 1550033, 23 pp.
- V. B. Kurteva, B. L. Shivachev, R. P. Nikolova, S. D. Simova, L. M. Antonov, L. A. Lubenov, M. A. Petrova, Conformational behavior of 3-methyl-4-(4-methylbenzoyl)-1-phenyl-pyrazol-5-one: a sudden story of three desmotrops, *RSC Adv.* **2015**, *5*, 73859-73867.
452. R. Pettinari, F. Marchetti, C. Pettinari, F. Condello, B. W. Skelton, A. H. White, M. R. Chierotti, R. Gobetto, Self-assembly of arene ruthenium acylpyrazolone fragments to tetranuclear metallacycles. Molecular structures and solid-state ^{15}N CPMAS NMR correlations, *Dalton Trans.* **2016**, *45*, 3974-3982.
- M. Atanassova, V. Kurteva, L. Lubenov, S. Varbanov, I. Billard, Are fancy acidic or neutral ligands really needed for synergism in ionic liquids? A comparative study of lanthanoids extraction in CHCl_3 and an ionic liquid, *New J. Chem.* **2015**, *39*, 7932-7941.
453. R. B. Gujar, S. A. Ansari, A. Sengupta, M. S. Murali, P. K. Mohapatra, Extractive complexation of lanthanides and Am(III) by 1-phenyl-3-methyl-4-benzoyl-5-pyrazolone in ionic liquid: Solvent extraction and spectroscopic studies, *Inorg. Chem. Commun.* **2016**, *73*, 72-76.
- V. Kurteva, M. Atanassova, I. Billard, NMR study on the possible interactions between imidazolium based ionic liquids and widely applied in solvent extraction and separation of f-ions extractants, *J. Solution Chem.* **2015**, *44*, 2416-2430.

454. V. Singh, P. K. Banipal, R. L. Gardas, T. S. Banipal, Speed of sound and apparent molar isentropic compression of 1-butyl-3-methylimidazolium bromide in aqueous monosaccharide solutions, *J. Mol. Liquids* **2016**, 223, 54-59.

M. Atanassova, V. Kurteva, Synergism as a phenomenon in solvent extraction of 4f-elements with calixarenes, *RSC Adv.* **2016**, 6, 11303-11324.

455. A. Fat'yanova, A. S. Gusak, O. A. Trofimova, R. E. Prokhorova, An improved process for the preparation of p-tert-butylcalix[4]arene: from laboratory-scale synthesis to scale-up development, *Chimica TechnoActa* **2016**, 3, 134-146.

M. Atanassova, V. Kurteva, L. Lubenov, I. Billard, Solvent extraction and separation of light lanthanoids with mixtures of two chelating extractants: benzene vs. ionic liquid, *Sep. Sci. Technol.* **2016**, 51, 290-299.

456. R. B. Gujar, S. A. Ansari, A. Sengupta, M. S. Murali, P. K. Mohapatra, Extractive complexation of lanthanides and Am(III) by 1-phenyl-3-methyl-4-benzoyl-5-pyrazolone in ionic liquid: Solvent extraction and spectroscopic studies, *Inorg. Chem. Commun.* **2016**, 73, 72-76.

S. P. Simeonov, J. P. M. Nunes, K. Guerra, V. B. Kurteva, C. A. M. Afonso, Asymmetric synthesis of cyclopentenone derivatives, *Chem. Rev.* **2016**, 116, 5744-5893.

457. H. Yamakoshi, Y. Sawayama, Y. Akahori, M. Kato, S. Nakamura, Total syntheses of (+)-Marrubiin and (-)-Marrubiacetal, *Org. Lett.* **2016**, 18, 3430–3433.

458. M.-L. Tang, P. Peng, Z.-Y. Liu, J. Zhang, J.-M. Yu, X. Sun, Sulfoxide-based Enantioselective Nazarov Cyclization: Divergent Syntheses of (+)-Isopaucifloral F, (+)-Quadrangularin A and (+)-Pallidol, *Chem. Eur. J.* **2016**, 22, 14535-14539.

459. M. S. Manna, R. Sarkar, S. Mukherjee, Enantioselective formal C(sp²)-H vinylation, *Chem. Eur. J.* **2016**, 22, 14912-14919.

460. Y. Liang, J. Lai, T. Liu, S. Tang, Direct regioselective [3+2]-cyclization reactions of ambivalent electrophilic/nucleophilic β -chlorovinyl dithianes: access to cyclopentene derivatives, *Org. Lett.* **2016**, *18*, 5086-5089.
461. C. Bürki, A. Whyte, S. Arndt, A. S. K. Hashmi, M. Lautens, Expanding the scope of the gold(I)-catalyzed Rautenstrauch rearrangement: protic additives, *Org. Lett.* **2016**, *18*, 5058-5061.
462. D. Leboeuf, L. Marin, B. Michelet, A. Perez-Luna, R. Guillot, E. Schulz, V. Gandon, Harnessing the Lewis acidity of HFIP through its cooperation with a calcium(II) salt: application to the aza-Piancatelli reaction, *Chem. Eur. J.* **2016**, *22*, 16165-16171.
463. Y. Cai, Y. Tang, I. Atodiresei, M. Rueping, Catalytic asymmetric Piancatelli rearrangement: Brønsted acid catalyzed 4π electrocyclization for the synthesis of multisubstituted cyclopentenones, *Angew. Chem. Int. Ed.* **2016**, *55*, 14126-14130.
464. H. Li, R. Tong, J. Sun, Catalytic enantioselective aza-Piancatelli rearrangement, *Angew. Chem. Int. Ed.* **2016**, *55*, 15125-15128.
465. E. Gyanchander, S. Ydhyam, N. Tumma, K. Belmore, J. K. Cha, Mechanism of Ru(II)-Catalyzed Rearrangements of Allenyl- and Alkynylcyclopropanols to Cyclopentenones, *Org. Lett.* **2016**, *18*, 6098-6101.
466. K. Fuchibe, R. Takayama, T. Yokoyama, J. Ichikawa, Regioselective synthesis of α -fluorinated cyclopentenones via organocatalytic difluorocyclopropanation and fluorine-directed and -activated Nazarov cyclization, *Chem. Eur. J.*, doi: 10.1002/chem.201604578
467. D. Ma, C. Fu, S. Ma, Diastereoselective construction of cyclopent-2-enone-4-ols from aldehydes and 1,2-allenones catalyzed by N-heterocyclic carbene, *Chem. Commun.* doi: 10.1039/C6CC07974A

***Справка за разпределението на забелязаните цитирания на статии с
участието на доц. Ваня Куртева по научни трудове***

No	Статия	Цитати
1	V. Kurteva, M. Lyapova, I. Pojarlieff, <i>J. Chem. Res. (S)</i> 1986 , 398-399; (<i>M</i>) 1986 , 3311-3318.	-
2	V. Kurteva, M. Lyapova, I. Pojarlieff, <i>Comm. Dept. Chem.</i> 1988 , 21, 226-235.	-
3	V. Dimitrov, V. Kurteva, M. Lyapova, B. Mikhova, I. Pojarlieff, <i>Magn. Reson. Chem.</i> 1988 , 26, 564-570.	1
4	M. Ivanova, V. Kurteva, M. Lyapova, Bulgarian Patent No. 49980, 1990 .	-
5	M. Ivanova, V. Kurteva, M. Lyapova, Bulgarian Patent No. 49981, 1990 .	-
6	V. Kurteva, M. Lyapova, I. Pojarlieff, <i>J. Chem. Res. (S)</i> 1993 , 270-271.	4
7	M. Ivanova, V. Kurteva, M. Lyapova, <i>Org. Prep. Proc. Int. (Oppi Briefs)</i> 1994 , 26, 549-551.	1
8	M. Ivanova, V. Kurteva, M. Lyapova, I. Pojarlieff, <i>J. Chem. Res.(S)</i> 1998 , 658-659.	3
9	A. Tsoutsoulova-Draganova, N. Halatcheva, V. Kurteva, D. Carova, A. Andreeva, M. Anguelova, In <i>Recent Advances in Doping Analysis</i> , Eds. W. Schänzer, H. Geyer, A. Gotzmann, U. Mareck-Engelke, Verlag Sport und Buch Strauß, Köln, 1999 , Vol. 6, 475-482.	1
10	V. Kurteva, M. Lyapova, <i>Phosphorus, Sulfur and Silicon</i> 2000 , 161, 239-249.	2
11	V. Kurteva, S. Simova, <i>Eur. J. Med. Chem.</i> 2003 , 38, 219-222.	1
12	V. Kurteva, A. G. Santos, C. Afonso, <i>Org. Biomol. Chem.</i> 2004 , 2, 514-523.	30
13	V. Kurteva, C. Afonso, <i>Green Chem.</i> 2004 , 6, 183-187.	20
14	V. Kurteva, M. Lyapova, <i>Cent. Eur. J. Chem.</i> 2004 , 2, 686-695.	5
15	V. Kurteva, C. Afonso, <i>Tetrahedron</i> 2005 , 61, 267-273.	33
16	V. Kurteva, M. Lyapova, <i>Arkivoc</i> 2005 (xiii), 8-20.	2
17	V. Kurteva, C. Afonso, <i>J. Mol. Catal. A – Chem.</i> 2005 , 234, 159-167.	3
18	V. Kurteva, V. Zlatanova, V. Dimitrov, <i>Arkivoc</i> 2006 (i), 46-56.	13
19	V. Kurteva, M. Lyapova, I. Pojarlieff, <i>Arkivoc</i> 2006 (ii), 91-100.	5
20	G. Reiss, V. Kurteva, <i>Acta Cryst.</i> 2006 , E62, 02141-02143.	-
21	L. Branco, P. Gois, N. Lourenço, V. Kurteva, C. Afonso, <i>Chem. Commun.</i> 2006 , 2371-2372.	94
22	V. Kurteva, S. Varbanov, W. Frank, <i>Supramol. Chem.</i> 2006 , 18, 621-626.	-
23	V. Kurteva, Modern aspects of azetidine synthesis, In <i>Modern Approaches to the Synthesis of O- and N- Heterocycles</i> ; T. Kaufman and E. Larghi, Eds.; Research Signpost: Kerala, India; 2007 , Vol. 3, pp. 45-71.	5
24	K. Doktorov, V. Kurteva, D. Ivanova, I. Timtcheva, <i>Arkivoc</i> 2007 (xv), 232-245.	7
25	S. Simeonov, V. Kurteva, R. Bontchev, <i>Bulg. Chem. Commun.</i> 2008 , 40, 409-417.	4
26	D. Nedeltcheva, V. Kurteva, B. Damyanova, S. Popov, <i>Rapid Commun. Mass Spectrom.</i> 2009 , 23, 1724-1734.	2
27	L. Antonov, V. Deneva, S. Simeonov, V. Kurteva, D. Nedeltcheva, J. Wirz, <i>Angew. Chem., Int. Ed.</i> 2009 , 48, 7875-7878; <i>Angew. Chem.</i> 2009 , 121, 8015-	22

	8018.	
28	A. Todorov, V. Kurteva, R. Bontchev, N. Vassilev, <i>Tetrahedron</i> 2009 , 65, 10339-10347.	16
29	V. Kurteva, C. Afonso, <i>Chem. Rev.</i> 2009 , 109, 6809-6857.	76
30	D. Nedeltcheva, V. Kurteva, I. Topalova, <i>Rapid Commun. Mass Spectrom.</i> 2010 , 24, 714-720.	6
31	L. Antonov, V. Kurteva, S. Simeonov, V. Deneva, A. Crochet, K. Fromm, <i>Tetrahedron</i> 2010 , 66, 4292-4297.	16
32	S. Simeonov, A. Simeonov, A. Todorov, V. Kurteva, <i>Am. J. Anal. Chem.</i> 2010 , 1, 1-13.	1
33	V. Kurteva, S. Simeonov, M. Stoilova-Disheva, <i>Pharmacology & Pharmacy</i> 2011 , 2, 1-9.	25
34	D. Nedeltcheva, V. Kurteva, L. Antonov, <i>Eur. J. Mass Spectrom.</i> 2011 , 17, 47-56.	2
35	A. Crochet, K. M. Fromm, V. Kurteva, L. Antonov, <i>Acta Cryst.</i> 2011 , E67, 0993.	-
36	M. Atanassova, V. Kurteva, L. Lubenov, <i>Ind. Eng. Chem. Res.</i> 2011 , 50, 12170-12176.	6
37	V. Kurteva, A. Todorov, M. Stoylova-Dicheva, <i>Arkivoc</i> 2011 (xi), 198-212.	2
38	L. Antonov, V. Kurteva, A. Crochet, L. Mirolo, K. Fromm, S. Angelova, <i>Dyes Pigm.</i> 2012 , 92, 714-723.	10
39	V. Kurteva, L. Antonov, D. Nedeltcheva, A. Crochet, K. Fromm, R. Nikolova, B. Shivachev, M. Nikiforova, <i>Dyes Pigm.</i> 2012 , 92, 1266-1277.	2
40	S. Piçarra, C. Afonso, V. Kurteva, A. Fedorov, J. Martinho, J. Farinha, <i>J. Colloid Interface Sci.</i> 2012 , 368, 21-33.	2
41	M. Atanassova, V. Kurteva, L. Lubenov, S. Varbanov, I. Dukov, <i>Sep. Purif. Technol.</i> 2012 , 95, 58-63.	6
42	V. Kurteva, L. Lubenov, D. Nedeltcheva, R. Nikolova, B. Shivachev, <i>Arkivoc</i> 2012 (viii), 282-294.	6
43	V. Deneva, Y. Manolova, L. Lyubenov, V. Kuteva, F. Kamounah, R. Nikolova, B. Shivachev, L. Antonov, <i>J. Mol. Struct.</i> 2013 , 1036, 267-273.	1
44	A. Ahmedova, S. P. Simeonov, V. B. Kurteva, L. Antonov, <i>Chem. Central J.</i> 2013 , 7, 29.	4
45	L. Antonov, V. Deneva, V. Kurteva, D. Nedeltcheva, A. Crochet, K. M. Fromm, <i>RSC Adv.</i> 2013 , 3, 25410-25416.	1
46	V. Kurteva, L. Lubenov, D. Antonova, <i>RSC Adv.</i> 2014 , 4, 175-184.	4
47	M. Petrova, V. Kurteva, <i>J. Chem. Eng. Data</i> 2014 , 59, 1295-1303.	-
48	V. Kurteva, L. Lubenov, S. Simova, <i>Bulg. Chem. Commun.</i> 2014 , 46 Special Issue A, 47-52.	-
49	M. Atanassova, V. Kurteva, L. Lubenov, I. Billard, <i>RSC Adv.</i> 2014 , 4, 38820-38829.	4
50	V. Kurteva, M. Petrova, <i>J. Chem. Educ.</i> 2015 , 92, 382-384.	1
51	L. Antonov, V. Deneva, S. Simeonov, V. Kurteva, A. Crochet, K. Fromm, B. Shivachev, R. Nikolova, M. Savarese, C. Adamo, <i>ChemPhysChem</i> 2015 , 16, 649-657.	-

52	Y. Manolova, V. Kurteva, L. Antonov, H. Marcinia, S. Lochbrunner, A. Crochet, K. Fromm, F. Kamounah, P. Hansen, <i>Phys. Chem. Chem. Phys.</i> 2015 , 17, 10238-10249.	2
53	A. Petrova, S. Angelova, I. Nikolchina, R. Russev, V. Kurteva, B. Shivachev, R. Petrova, <i>Bulg. Chem. Commun.</i> 2015 , 47, 208-220.	-
54	V. Kurteva, A. Kurutos, B. Shivachev, R. Nikolova, <i>Acta Sci. Naturalis (ASN)</i> 2015 , 2, 8-15.	-
55	V. Kurteva, B. Shivachev, R. Nikolova, S. Simova, L. Antonov, L. Lubenov, M. Petrova, <i>RSC Adv.</i> 2015 , 5, 73859-73867.	1
56	M. Atanassova, V. Kurteva, I. Billard, <i>Anal. Sci.</i> 2015 , 31, 917-922.	-
57	M. Atanassova, V. Kurteva, L. Lubenov, S. Varbanov, I. Billard, <i>New J. Chem.</i> 2015 , 39, 7932-7941.	1
58	V. Kurteva, M. Atanassova, I. Billard, <i>J. Solution Chem.</i> 2015 , 44, 2416-2430.	1
59	M. Atanassova, V. Kurteva, <i>RSC Adv.</i> 2016 , 6, 11303-11324.	1
60	M. Atanassova, V. Kurteva, L. Lubenov, I. Billard, <i>Sep. Sci. Technol.</i> 2016 , 51, 290-299.	1
61	S. Simeonov, J. Nunes, K. Guerra, V. Kurteva, C. Afonso, <i>Chem. Rev.</i> 2016 , 116, 5744-5893.	11
62	V. Kurteva, L. Lubenov, M. Petrova, <i>Comprehensive Organic Chemistry Experiments for the Laboratory Classroom (COCELC)</i> , RSC Publishing, 2016 , Ch. 2.2.1, pp. 122-126.	-
63	M. Atanassova, V. Kurteva, I. Dukov, <i>RSC Adv.</i> 2016 , 6, 81250-81265.	-
64	S. Todorova, V. Kurteva, B. Shivachev, R. P. Nikolova, <i>Acta Cryst.</i> 2016 , A72 Supplement, s395. (предварително съобщение)	-
	Общо	467
	Хириш фактор	11

05.12.2016 г.

София

Подпис:

/В. Куртева/