

	Title	Authors	Date	Publication	Keywords
1	Small Molecule Inhibitors of Bacterial Quorum Sensing and Biofilm Formation	Grant D. Geske, Rachel J. Wezeman, Adam P. Siegel, and Helen E. Blackwell	2005	1 Chem Soc, 2005, 127(37) 12762-12	N-acyl L-homoserine lactone; tandem cyclization cleavage; solid phase
2	Microwave-Assisted Generation and Reactions of Nitrile Sulfides	Angus J. Morrison, R. Michael Paton and Robert D. Sharp	2005	Synthetic Communications, 35: 807–813, 2005	cycloaddition, nitrile sulfide, thiadiazole, isothiazole, oxathiazolone
3	Microwave-Assisted Synthesis of Polysubstituted Pyridazines	Giacomo Minetto, L. Raffaella Lampariello, Maurizio Taddei	2005	Synlett 2005, No. 18, pp 2743–2746	pyridazine, cyclocondensation, diketone, hydrazine, open vessel
4	Synthesis of 1-Alkyl-4-imidazolecarboxylates: A Catch and Release Strategy	Lidia De Luca, Giampaolo Giacomelli , and Andrea Porcheddu	2005	J Comb Chem; 2005; 7(6); 905-908	imidazole, solid phase, open vessel, catch and release
4	Microwave assisted IMDAF reaction: Microwave irradiation applied with success to cycloaddition reaction of N-propargyl-N-p-tolyl-N-2-furfurylamines	Ana Dunja Mance & Kresimir Jakopcic	2005	Molecular Diversity (2005) 9: 229–232	diels-alder, furan, intramolecular, alkynylaryl-furfurylamine, epoxyisoindoline, simultaneous cooling-
5	Rapid one-pot preparation of 2-substituted benzimidazoles from 2-nitroanilines using microwave conditions	David S. VanVliet, Paul Gillespie and Jan J. Scicinski	2005	Tetrahedron Letters 46 (2005) 6741-6743	Benzimidazole; Cyclization: Nitroaniline
6	Microwave-assisted synthesis of functionalized flavones and chromones	George W. Kabalka and Arjun R. Mereddy	2005	Tetrahedron Letters 2005; 46 (37) 6315-6317	Chromone; Flavone; Metal catalyzed; cyclization; Green chemistry

7	Synthesis of a Library of Complex Macrodiolides Employing Cyclodimerization of Hydroxy Esters	Aaron B Beeler, Dayle E Acquilano, Qibin Su, Feng Yan, Bryan L Roth, James S Panek and John Porco	2005	J Comb Chem; 2005; 7 (5) ; 673-681	macrodiolide, cyclodimerization, transesterification, hydroxy ester,
8	Microwave-Assisted Intramolecular [2 + 2] Allenic Cycloaddition Reaction for the Rapid Assembly of Bicyclo[4.2.0]octa-1,6-dienes and Bicyclo[5.2.0]nona-1,7-dienes	Kay M. Brummond and Daitao Chen	2005	Org. Lett., Vol. 7, No. 16, 2005, 3473-3475	bicyclomethylenecyclobutenes, intramolecular cycloaddition, alkynyl allenes, ionic liquids
9	A Novel Efficient Three-Component One-Pot Synthesis of 1,3-Diazabicyclo[3.1.0]hex-3-ene System under Microwave Irradiation	Francesco Risitano , Giovanni Grassi, Francesco Foti, Sonia Moraci	2005	Synlett 2005, No. 10, pp 1633-1635	bicyclic aziridine, multicomponent reaction,
10	An Efficient and Simple Aqueous N-Heterocyclization of Aniline Derivatives: Microwave-Assisted Synthesis of N-Aryl Azacycloalkanes	Yuhong Ju and Rajender S. Varma	2005	Org. Lett., Vol. 7, No. 12, 2005	heterocycle, cyclization, Aryl Azacycloalkanes, green chemistry
11	Microwave-Assisted Intramolecular Suzuki-Miyaura Reaction to Macrocycle, a Concise Asymmetric Total Synthesis of Biphenomycin B	Renaud Le'pine and Jieping Zhu	2005	Org. Lett., Vol. 7, No. 14, 2005	Suzuki-Miyaura, intramolecular cyclization, cyclophane
12	Microwave-Assisted Benzimidazole Cyclization by Bismuth Chloride	Yuh-Sheng Su, Chung-Ming Sun	2005	Synlett 2005, No. 8, pp 1243-1246	benzimidazole, SnAr reaction, reduction, cyclization, liquid phase combinatorial chemistry, open vessel Phenazine,
13	Efficient Methods for the Synthesis of 2-Hydroxyphenazine Based on the Pd-Catalyzed N-Arylation of Aryl Bromides	Mario Tietze, Alberto Iglesias, Elena Merisor, Juergen Conrad, Iris Klaiber, and Uwe Beifuss	2005	Org Lett, 2005, Vol 7, No 8, 1549-1552	Diphenylamine, Buchwald-Hartwig, intramolecular cyclization
14	Fluorous synthesis of biaryl-substituted proline analogs by 1,3-dipolar cycloaddition and Suzuki coupling reactions	Wei Zhang and Christine Hiu-Tung Chen	2005	Tetrahedron Letters 46 (2005) 1807-1810	Suzuki, cycloaddition, bicyclic proline, multicomponent, fluorous synthesis

15	Microwave-Enhanced Cadogan Cyclization: An Easy Access to the 2-Substituted Carbazoles and other Fused Heterocyclic Systems	Prasad Appukkuttan, Erik Van der Eycken, Wim Dehaen	2005	Synlett 2005, No. 1, pp 0127–0133	Carbazole, fused heterocycle, Cadogan cyclization, Suzuki–Miyaura cross-coupling
16	Reagent-free Nazarov cyclisations	Frederic Douelle, Lauren Tal and Michael F. Greaney	2005	Chem Commun, 2005, 660-662	Nazarov cyclisation; dienone, cyclopentenone; reagent-free
17	Microwave-Mediated Intramolecular Diels-Alder Cyclization of biodihydroxylated Benzoic Acid Derivatives	Mihovilovic, MD ; Leisch, HG; Mereiter, K	2004	Tetrahedron Lett., 2004, 45, 7205-7208	Diels-Alder, intramolecular cyclization, biodihydroxylation, enantioselective.
18	Microwave Enhanced Tandem 5-exo Cyclization/Claisen Rearrangement Reactions: A Convenient Route to Cycloheptanoid Ring Systems	Caitlin E. McIntosh, Isamir Martínez, Timo V. Ovaska	2004	Synlett 2004, No. 14, 2579-2581	cycloheptanoids, exo-cyclization, Claisen, 4-alkyn-1-ols, solvent-free
19	Solid Phase Synthesis of Indol-2-ones by Microwave-assisted Radical Cyclization	Hisashi Akamatsu, Koichi Fukase and Shoichi Kusumoto	2004	Synlett 2004, No. 6, 1049-1053	heterocycle, indol-2-one, solid phase, combinatorial, cyclization
20	Total Synthesis of the thiopeptide amythiamicin D	Rachael A. Hughes, Stewart P. Thompson, Lilian Alcaraz and Christopher J. Moody	2004	Chem Comm, 2004, 946-948	Diels-Alder, 2,3,6-tris(thiazolyl)pyridine
21	1,3-Dipolar cycloadditions of organic azides to ester or benzotriazolylcarbonyl activated acetylenic amides	Alan R. Katritzky , Yuming Zhang, Sandeep K. Singh, and Peter J. Steel	2003	ARKOVIC 2003 (xv) 47-64	heterocycles, cycloaddition, 1,2,3-Triazoles, bis-triazoles, simultaneous cooling-irradiation. azides
22	Highly efficient synthesis of pyrimidines under microwave-assisted conditions	Bagley, MC ; Hughes, DD; Taylor, PH	2003	Synlett, 2003, 2, 259-61	pyrimidines, heterocycles

23	Microwave-assisted [3 + 2] cycloadditions of azomethine ylides	Bashiardes, G ; Safir, I; Mohamed, AS; Barbot, F; Laduranty, J	2003	Org. Lett., 2003, 5, 4915-18	cycloaddition, azomethine ylides, pyrrolidines, pyrroles, heterocycles, condensations. O-heterocycle,
24	A method for generating nitrile oxides from nitroalkanes: a microwave assisted route for isoxazoles	Giacomelli, G ; De Luca, L; Porcheddu, A	2003	Tetrahedron, 2003, 59, 5437-40	cycloaddition, isoxazoline, isoxazole, open vessel, solid-phase synthesis:
25	Microwave-assisted solution-phase synthesis of 1,4,5-trisubstituted pyrazoles	Giacomelli, G ; Porcheddu, A; Salaris, M; Taddei, M	2003	Eur. J. Org. Chem., 2003, 537-41	combinatorial chemistry, cyclization, heterocycle,
26	A new β-carbolinone synthesis using a Rh(II)-promoted [3+2]-cycloaddition and Pd(0) cross-coupling/Heck cyclization chemistry	Harris, JM; Padwa, A	2003	Org. Lett., 2003, 5, 4195	amination, cross-coupling, aryl halides, aryl triflates, amines
27	Novel series of 8H-quinazolino[4,3-b]quinazolin-8-ones via two Niementowski condensations	Francois-Rene´ Alexandre, Amaya Berecibar, Roger Wrigglesworth and Thierry Besson	2003	Tetrahedron 59 (2003) 1413–1419	heterocycles, solvent-free, Niementowski reaction, graphite support, quinazolinones, open vessel. fused ring
28	A study of the synthesis of triazoles using microwave irradiation	Savin, KA ; Robertson, M; Gernert, D; Green, S; Hembre, EJ; Bishop, J	2003	Molec. Diversity, 2003, 7, 171-74	heterocycle, cycloaddition, triazole, azide, acetylene
29	Fluorous dienophiles are powerful diene scavengers in Diels-Alder reactions	Werner, S; Curran, DP	2003	Org. Lett., 2003, 5, 3293-96	Diels-Alder, fluorous scavenger, solvent-free
30	Biosynthesis inspired Diels-Alder route to pyridines: synthesis of the 2,3-dithiazolypyridine core of thiopeptide therapeutics	Alcaraz, L; Hughes, R A; Moody, CJ ; Thompson, SP.	2002	Chem Comm, 2002, 1760-1761	Diels-Alder, pyridines, thiopeptides,

31	Synthesis of C-carbamoyl-1,2,3-triazoles by microwave-induced 1,3-dipolar cycloaddition of organic azides to acetylenic amides	Katritzky, AR; Singh, SK	2002	J. Org. Chem., 2002, 67, 9077-79	heterocycles, cycloaddition, N-substituted triazoles, azides, acetylenic amides.
32	A study of the ionic liquid mediated microwave heating of organic solvents	Leadbeater, NE; Torenus, HM	2002	J. Org. Chem., 2002, 67, 3145-48	ionic liquid, non-polar solvents, dialkylimidazolium halides, Diels -Alder, Michael Addition.
33	The angiogenesis inhibitor Epoxyquinol A: total synthesis and inhibition of transcription factor NF-kB.	Li, C; Bardhan, S; Pace, EA; Liang, MC; Gilmore, TD; Porco, JA	2002	Org. Lett., 2002, 4, 3267-70	Diels-Alder, epoxyquinoid dimers, natural products,