

	Title	Authors	Date	Publication	Keywords
1	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
2	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, open vessel
3	Microwave-Assisted Single-Step Synthesis of Poly(alkylene hydrogen phosphonate)s by Transesterification of Dimethyl Hydrogen Phosphonate with Poly(ethylene glycol)	Ella Bezdushna, Helmut Ritter , Kolio Troev	2005	Macromol. Rapid Commun. 2005, 26, 471–476	transesterification, poly(alkylene hydrogen phosphonate)s, dimethyl hydrogen phosphonate, poly(ethylene glycol), polymer, open vessel
4	Microwave Accelerated Polymerization of 2-Phenyl-2-oxazoline	Sebastian Sinnwell, Helmut Ritter	2005	Macromol. Rapid Commun. 2005, 26, 160–163	cationic ring-opening polymerization, 2-phenyl-2-oxazoline, poly(N-benzoylethylenimine), open vessel
5	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
6	Microwave-assisted synthesis of peptidyl phosphorus ylides	Alan R. Katritzky , Adam S. Vincek, and Kazuyuki Suzuki	2005	ARKIVOC 2005 (v) 116-126	open vessel, phosphorus ylide, benzotriazole

7	Microwave-assisted, regioselective, Petasis olefination of unsymmetrical oxalates. Formation of pyruvate-based enol ethers and enamines	Matthew J. Cook, Declan W. Fleming and Timothy Gallagher	2005	Tetrahedron Letters 46 (2005) 297–300	Petasis reagent; olefination; pyruvates; enamines; enol ether, open vessel
8	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
9	Pictet–Spengler heterocyclizations via microwave-assisted degradation of DMSO	Christophe Mesangeau, Said Yous, Basile Peres, Daniel Lesieura and Thierry Besson	2005	Tetrahedron Letters 46 (2005) 2465–2468	heterocycles, Pictet–Spengler reaction, melatonin, dimethyl sulfoxide, open vessel
10	Microwave-assisted rapid electrophilic fluorination of 1,3-dicarbonyl derivatives with Selectfluor®	Ji-Chang Xiao and Jean'ne Shreeve	2005	J Fluorine Chem; 2005; 126(4) 473-476	Electrophilic fluorination; Selectfluor; 1,3-Dicarbonyl compounds, open vessel
11	Efficient Microwave Enhanced Synthesis of 4-Thiazolidinones	Gududuru, V.; Nguyen, V.; Dalton, J. T.; Miller, D. D.	2004	SYNLETT 2004, No. 13, pp 2357–2358	heterocycles, condensation, 4-thiazolidinones, open vessel, multi-component reaction
12	Novelties of microwave irradiated solid–liquid phase transfer catalysis (MISL-PTC) in synthesis of 2 - benzyloxyacetophenone	Ganapati D. Yadav , Priyal M. Bisht	2004	Journal of Molecular Catalysis A: Chemical 221 (2004) 59–69	2 -Benzyloxyacetophenone, o-hydroxyacetophenone; Benzyl Chloride; O-Alkylation, phase transfer catalyst, open vessel
13	Microwve-assisted preparation of cyclic ureas from diamines in the presence of ZnO	Kim YJ; Varma, RS	2004	Tetrahedron Lett., 2004, 45, 7205-7208	cyclic urea, urethane, diamine, Zinc oxide, open vessel

14	Microwave Synthesis of Iridium (III) Complexes: Synthesis of Highly Efficient Orange Emitters in Organic Light-Emitting Diodes	Saito, K ; Matsusue, N; Kanno, H; Hamada, Y; Takahashi, H; Matsumura, T	2004	Jpn J Appl Phys, Vol 43, No 5A (2004), 2733-2734	electroluminescence, phosphorescent, iridium complex, orange light emitting device, organometallic, open vessel
15	Aqueous N-alkylation of amines using alkyl halides: direct generation of tertiary amines under microwave irradiation	Ju, Y; Varma, R.	2004	Green Chem., 2004, 6, 219-221	tertiary amines, N-alkylation, alkyl halide, water, green chemistry, open vessel
16	Surprising Bacterial Nucleotidyltransferase Selectivity in the Conversion of Carbaglucose-1-phosphate	Kwang-Seuk Ko, Corbin J. Zea, and Nicola L. Pohl	2004	J. AM. CHEM. SOC. 2004, 126, 13188-13189	carbohydrate, Ferrier rearrangement, elimination, open vessel
17	Novelties of microwave assisted liquid-liquid phase transfer catalysis in enhancement rates and selectivities in alkylation of phenols under mild conditions	Yadav, G.P ; Bisht, P.M.	2004	Catalysis Communications 5 (2004) 259-263	phenolic ether, phase transfer catalyst, alkylation, open vessel
18	Focused Microwave-Assisted Parallel Synthesis of bis-Benzimidazoles	Mei-Jung Lin, Chung-Ming Sun	2004	Synlett 2004, No. 4, 663-666	bis-benzimidazole, combinatorial chemistry, multi- step reaction, open vessel
19	A "catch and release" strategy for the parallel synthesis of 2,4,5-trisubstituted pyrimidines	Porcheddu, A ; Giacomelli, G; De Luca, L; Ruda, AM	2004	J. Comb. Chem., 2004, 6, 105-11	cyclocondensation, pyrimidine, catch and release, solid support, open vessel
20	Soluble polymer-supported synthesis of thioxotetrapyrimidinone by focused microwave irradiation	Sun, CM ; Yeh, WB	2004	J. Comb. Chem., 2004, 6(2); 279-282	heterocycles, pyrimidinone, liquid phase combinatorial chemistry, cyclorelease, open vessel

21	Cellulose beads: a new versatile solid support for microwave-assisted synthesis. Preparation of pyrazole and isoxazole libraries.	De Luca, L; Giacomelli, G; Porcheddu, A ; M Salaris; Taddei, M	2003	J. Comb. Chem., 2003, 5, 465-71	heterocycles, pyrazole, isoxazole, solid support, cellulose, open vessel,
22	Eco-friendly microwave-assisted scaleable synthesis of 2-cyanobenzothiazoles via N-arylimino-1,2,3-dithiazoles	Frere, S; Thiery, V; Besson, T	2003	Synth. Commun., 2003, 33, 3795-804	cyanobenzothiazole, heterocycles, solvent-free, graphite support, open vessel
23	Novel 6-substituted benzothiazol-2-yl indolo[1,2-c]quinazolines and benzimidazo[1,2-c]quinazolines	Frere, S; Thiery, V; Bailly, C; Besson, T	2003	Tetrahedron, 2003, 59, 773-79	heterocycles, quinazolines, benzothiazole, benzoxazole, open vessel
24	Efficient synthesis of thiazoloquinazolinone derivatives	Francois-Rene Alexandre, Amaya Berecibar, Roger Wrigglesworth and Thierry Besson	2003	Tetrahedron Letters 44 (2003) 4455–4458	heterocycles, thiazoloquinazolinones, quinazolines, Appel's salt chemistry, open vessel
25	Microwave-assisted traceless synthesis of thiohydantoin	Lin, MJ; Sun, CM	2003	Tetrahedron Lett., 2003, 44, 8739-42	heterocycle, thiohydantoin, liquid phase combinatorial chemistry, thiourea, cyclorelease, open vessel
26	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 systems. cyclization heterocycle,
27	Microwave-enhanced liquid-phase synthesis of thiohydantoins and thioxotetrahydropyrimidinones	Yeh, WB; Lin, MJ; Lee, MJ; Sun, CM	2003	Molec. Diversity, 2003, 7, 185-98	thiohydantoin, pyrimidinone, liquid phase combinatorial chemistry, multi-step reaction, open vessel. cyclorelease

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| 28 | Microwaves in drug discovery and multi-step synthesis | François-Ren Alexandre, Lisianne Domon, Stephane Frere, Alexandra Testard, Valerie Thiery and Thierry Besson | 2003 | Molec. Diversity, 2003, 7, 273-280 | heterocycles, solvent-free, thiazoles, Niementowski reaction, graphite support, quinazolines |
| 29 | Microwave-assisted Niementowski reaction. Back to the roots. | Alexandre, FR; Berecibar, A; Besson, T | 2002 | Tetrahedron Lett., 2002, 43, 3911-13 | heterocycles, Niementowski reaction, quinazolinone, open vessel |