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1495 The reaction of α-halocarbonyl compounds with (NH_4)OH, (NH_4)_2SO_4 or NH_4Cl solution under microwave-irradiation

Reaction of α-halo ketone (α-bromo and α-chloro ketone,) under microwave irradiation gave the pyrazine and quinoxaline derivative in good yields. This reaction affords a clean and convenient synthetic method for pyrazine and quinoxaline derivatives.

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1503 A new alkoxy-, hydroxy- and nitratoiodination of α,β-unsaturated esters and amides using iodine-ammonium cerium(IV) nitrate and cerium(IV) sulfate

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1511 Synthesis and antimicrobial activity of novel 5-substituted-N-(substituted-2H-[1,3]oxazino[6,5-b]quinolin - 3(4H)-yl)-3-phenyl-1H-indole-2-carboxamides

Compounds 3a-h, obtained by the reaction of 1a,b and 2a-d on reaction with sodium borohydride followed by treatment with formaldehyde yield 4a-h and 5a-h respectively.

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Crystal and molecular structure investigations of 9-fluorenone hydrazone by X-ray, DFT, ESI-MS, FT-IR, UV-Vis and NMR methods

9-Fluorenone hydrazone has been characterized using ESI-MS, FT-IR, NMR, UV-Vis and X-ray diffraction. DFT calculations have been used to assign the NMR chemical shifts, to analyze the molecular orbitals and molecular electrostatic potential.

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An efficient synthesis of (±) 4-hydroxy-9-methoxy-5,11-dimethyl-6H-1,2,3,4-tetrahydro-benzo[b]carbazole

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Structurally simple dipodalazo linked salicylaldimine as colorimetric sensor for F⁻ and AcO⁻ ion recognition

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A simple and green synthesis of highly functionalized quinoline derivatives using zinc oxide nanoparticles

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Solvent-free synthesis of quinazolin-4(3H)-ones promoted by SbCl₃ under microwave condition

2-Substituted quinazolin-4(3H)-ones have been synthesized in good to excellent yields by condensation of anthranilic amide or anthranilic acid with various acylamides using Antimony(III) chloride (SbCl₃) under microwave irradiation without solvent.

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