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Graphical Abstracts

Nano silica chromic acid/wet SiO₂ and NaNO₂ as an efficient reagent for one-pot synthesis of azo dyes based on 2-naphthol at room temperature under solvent-free conditions

pp 603-606

Abdolhamid Bamoniri,*^a BiBi Fatemeh Mirjalili,^b Arash Ghorbani-Choghamarani,^c Ahmad Akbari,^d Mohammad E. Yazdanshenas,^e and Abbas Shayanfard^e

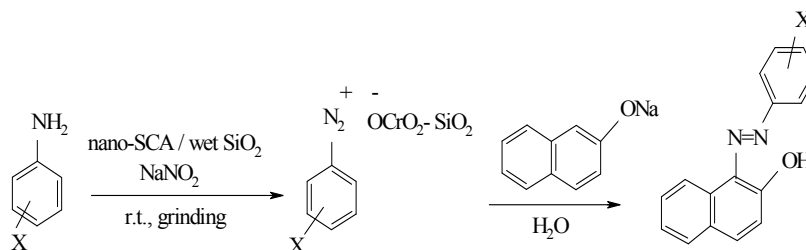
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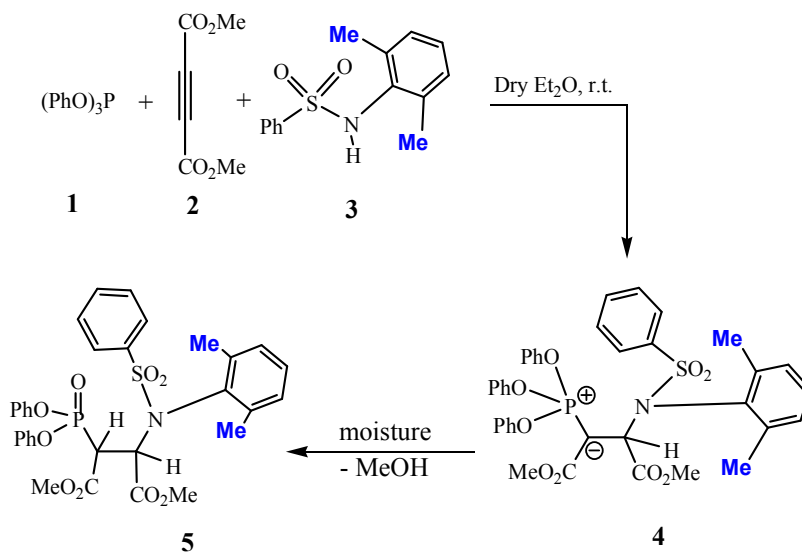


Synthesis of dimethyl-N-(1,6-dimethylphenylsulfonamino-N-yl)-3-(diphenoxyphosphoryl) butenedioate and assignment of the structure by VT-NMR and X-ray diffraction

pp 607-609

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Synthesis and characterization of new four-coordinated Zinc(II) complex containing phenanthroline derivatives pp 611-614

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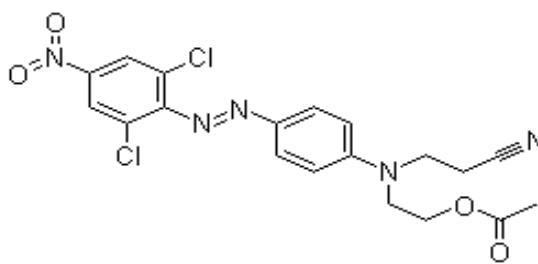
Compound	$\nu(\text{C}=\text{C}), \nu(\text{C}=\text{N})$	$\nu(\text{Zn}-\text{N})$	$\nu(\text{Zn}-\text{Br})$
2,2'-Biquinoline	1423, 1508, 1550, 1614	-	-
[Zn(biq)Br ₂]	1333, 1430, 1505, 1586	318	184

Adsorption behavior of disperse orange 30 on polyester fabric pp 615-620

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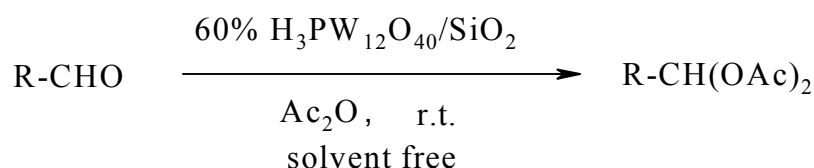


H₃PW₁₂O₄₀/SiO₂: an efficient, reusable and eco-friendly catalyst for the synthesis of 1,1-diacetates at room temperature pp 621-624

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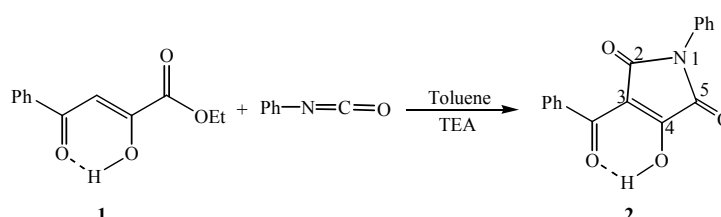
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Synthesis of 3-oxo-4-benzoyl-1-phenylsuccinimide and its reactions with 1,2-dinucleophiles pp 625-628

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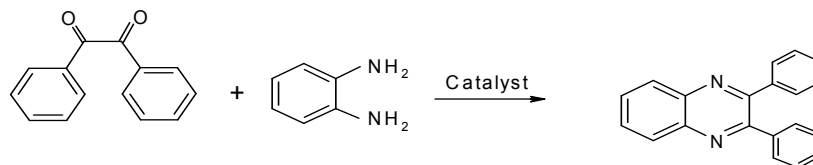


KAl(SO₄)₂·12H₂O as an efficient and reusable catalyst for the synthesis of quinoxaline in solvent-free condition

pp 629-633

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Solvent free oxidation of benzyl alcohol and its derivatives into corresponding aldehydes on nano structured ZnO as catalyst

pp 635-637

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Entry	substrate	nano ZnO(mmol)	time(min)	yield (%)
1	benzyl alcohol	0	30	65
2	benzyl alcohol	0.25	30	80
3	benzyl alcohol	0.5	30	90
4	benzyl alcohol	0.75	30	90

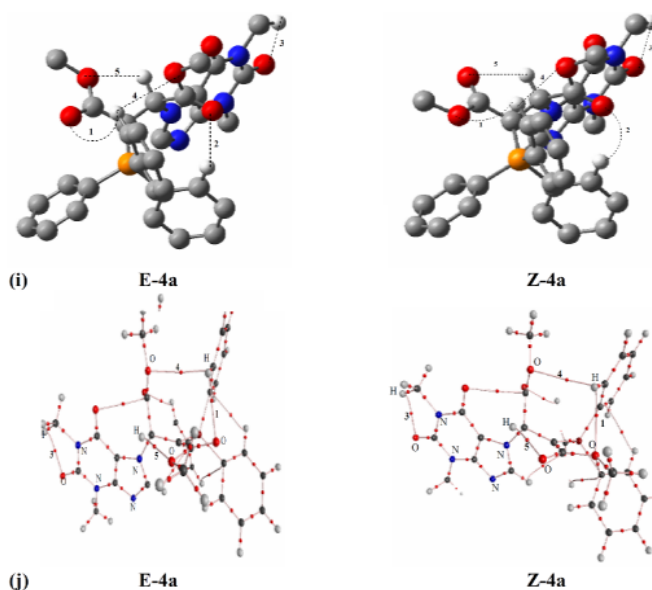
Experimental kinetics investigation of stable phosphorus ylides involving a theophylline along with theoretical calculations

pp 639-651

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Electrocatalytic oxidation of ethylene glycol at surface of modified carbon paste electrode with poly (N,N-dimethyl aniline)/Ni-Co

pp 653-657

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The electrooxidation of ethylene glycol (EG) on modified carbon paste electrode with poly (N,N–dimethyl aniline)(SDS) (CPE/PDMAN-SDS) with different proportions of Ni (II) and Co (II) in 1 M NaOH was studied by cyclic voltammetry. The results show that formed layers at the surface of the electrodes behave as an efficient electrocatalyst for the oxidation of EG in alkaline medium via the Ni (III) and Co (III) species. These modified electrodes exhibit high electrocatalytic activity and stability in alkaline solution, showing oxidation peaks at low potentials with high current densities. The effects of various parameters such as potential scan rates, EG concentration and the supporting electrolytes on the electrooxidation of EG are also investigated.