

<<吕春绪文选>>

图书基本信息

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前言

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内容概要

《吕春绪文选》是为庆祝吕春绪教授七十华诞而整理的，主要包括吕先生本人及其指导下弟子发表的科研论文。

由于文章数量较多，按硝化反应与硝酰阳离子理论、膨化硝酸铵与膨化硝酸铵炸药自敏化理论、炸药合成及应用、药物中间体及表面活性剂等的合成及工艺四部分选取了86篇代表性论文进行全文收录。

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作者简介

吕春绪教授，男，河北乐亭人，生于1943年3月12日。
我国炸药领域著名学者，国家有突出贡献的中青年专家，国务院特殊津贴获得者。
南京理工大学化学工程与技术一级学科带头人、应用化学国家级重点学科带头人。
先后获国家科技进步二、三等奖、国家发明三等奖、部科技进步特等奖、民爆行业科技进步特别奖共16项。
为我国含能材料赶超世界先进水平、为其持续发展起到重大促进作用。

书籍目录

第一部分 硝化反应与硝酰阳离子理论 / 1 金属硝酸盐—醋酐硝化剂的研究 Research on the Selective Nitration of Acetanilide and its Kinetics 苯酚两相硝化反应及其机理研究 乙酰苯胺选择性硝化反应速度研究 Regioselectivities of Toluene Nitration on Betonite Catalysts by Using of Alkyl Nitrate N₂O₅绿色硝化研究及其新进展 绿色硝化研究进展 Zeolite-assisted Nitration of Neat Toluene and Chlorobenzene with a Nitrogen Dioxide/molecular Oxygen System. Remarkable Enhancement of Para-selectivity Nitration of Aromatic Compounds with NO₂/Air Catalyzed by Sulfonic Acid-Functionalized Ionic Liquids 乙酰苯胺选择性硝化及影响因素的分析 用Ip作为N₂O₄-O₃硝化取代芳烃的定位判据 硝酰阳离子和二氧化氮分子的弯曲变形研究 固体钨酸催化下甲苯的硝化 Nitration of Simple Aromatics with NO₂ under Air atmosphere in the Presence of Novel Br(o)nsted Acidic Ionic Liquids Regioselective. Mononitration of Aromatic Compounds Using Keggin Heteropolyacid Anion Based Br(o)nsted Acidic Ionic Salts 第二部分 膨化硝酸铵与膨化硝酸铵炸药自敏化理论 / 87 Research on Expanding Mechanism of Ammonium Nitrate Research on the Cap Sensitivity of Expanded Ammonium Nitrate Status and Development of Industrial Explosives in China Research and Development of Powder Industrial Explosives in China 硝酸铵膨化技术及应用 膨化硝酸铵自敏化理论研究 Self-sensitivity Theory Design of Expanded Ammonium Nitrate Explosive 膨化硝酸铵自敏化理论的微气泡研究 硝酸铵膨化理论研究 膨化硝酸铵晶体特性研究 Expansion Technology of Ammonium Nitrate and its Application A Study on Self-Sensitization Theory of Expanded Ammonium Nitrate Explosive A Study and Development of Expanded Ammonium Nitrate Explosive Research on Safety Properties of Expanded Ammonium Nitrate Theoretical Research of Expanded AN Explosive A Computer Model for Formulation of ANFO Explosives Research and Application of Expanded Ammonium Nitrate Self-sensitizable Characteristics of Modified Ammonium Nitrate 改性硝酸铵性能研究 FTIR光谱遥测红外药剂的燃烧温度 改性硝酸铵爆炸安全性研究 无机化学肥料对硝酸铵爆炸安全性的影响 聚合物对硝酸铵相转变的影响 Self-sensitization Structure of Expanded Ammonium Nitrate and its Effect on ANFO Detonation Properties 硝酸铵自敏化结构与爆轰性能 第三部分 炸药合成及应用 SJY炸药及其应用 液体炸药线型切割器设计与应用研究 The Development and Present Situation of Heat-Resistant Explosives Research on Condensation Reaction of 3,3'-Diamino-2,2',4,4',6,6'-Hexnitro Diphenylamine Potassium in Biosynthesis Process Investigation on Condensation Reaction and Its Kinetics for 3,3' Prime-Dichloro-4,6-Dinitrodiphenylamine 3,3'—二氨基—2,2',4,4',6,6'—六硝基二苯胺钾合成及其应用 1,3—二(3'—氯苯胺基)—2,4,6—三硝基苯的合成研究 纳米RDX粉体的制备与撞击感度 NEAK分子间炸药的热分解 超细RDX爆速和作功能力的研究与测试 TATB及其杂质的绝热分解研究 Preparation and Characterization of Reticular Nano-HMX 第四部分 药物中间体及表面活性剂等的合成及工艺 附录

章节摘录

版权页：插图： While numerous reports described the ILs was used as catalyst for nitration system such as [bimim] BF₄ and [bdmin] BF₄ and [emim] [NO₃]. But Br(o)nsted acidic based ILs is reported very limited as catalyst in nitration of aromatic compound. Keggin heteropolyacids have attracted much attention in catalysis area because of their special catalytic activities such as the similar structure as molecular sieves and strong acidities. In this paper, we report our continuous efforts at exploring the new imidazolium based modified Br(o)nsted acidic ionic liquid alternative catalyzed nitration reaction. We have synthesized novel Keggin heteropolyacid anion based Br(o)nsted acidic ionic salts (KHBISs) [SO₃H(CH₂)₄Mim]_nH_{3-n}PMo₁₂O₄₀ (n=1,2,3) which was using Keggin heteropolyacid H₃PMo₁₂O₄₀ as anion source and zwitterion [Mim(CH₂)₄SO₃] as cation source. Moreover, their catalytic activities were investigated in nitration of aromatic compounds.

Experimental 2.1 General information All reagents were commercially available. IR spectra were recorded on a Bruker EQUINOX55 IR spectrometer. Product mixtures were analyzed on Agilent Technologies 6820 Gas Chromatography with an OV-101 capillary column (0.32mm × 30m) and a FID detector. 2.2 Preparation of keggins heteropolyoxotungstate anion based br nsted acidic ionic salt The whole procedure for the synthesis of the KHBISs was shown in Fig.1.

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编辑推荐

《吕春绪文选》阐述严谨，数据翔实，理论与研究开发、工程实践紧密结合，既具有重要的学术价值，又对理解吕春绪教授学术思想的形成具有参考意义。

文选反映出吕春绪教授取得的两个突出科研成果：一个是硝酰阳离子（ NO_2^+ ）理论，另一个是硝酸铵自敏化理论。

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