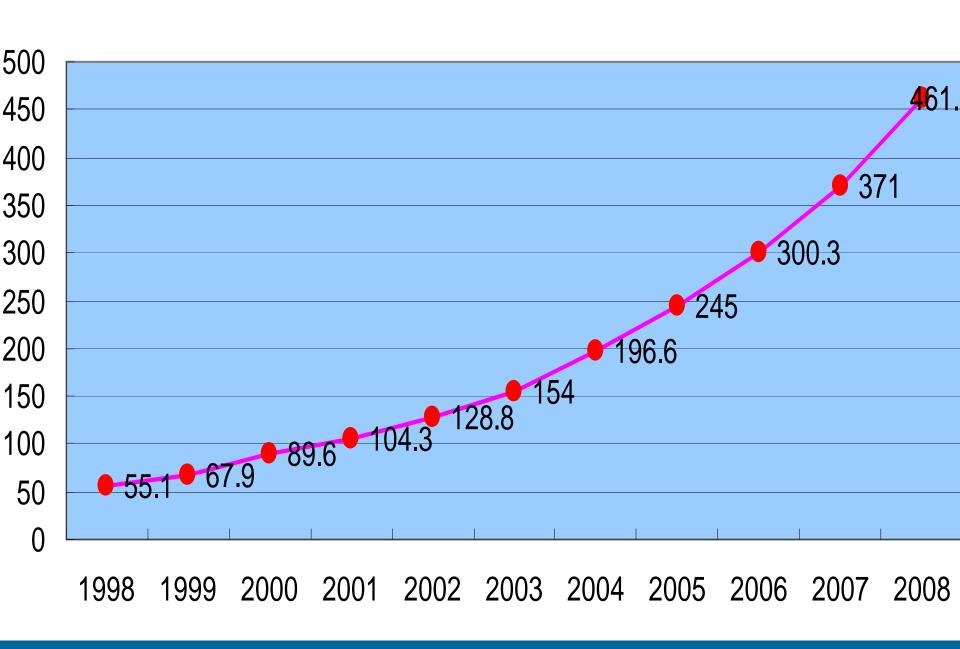


How Do Chinese Universities Respond to Misconduct in Research?

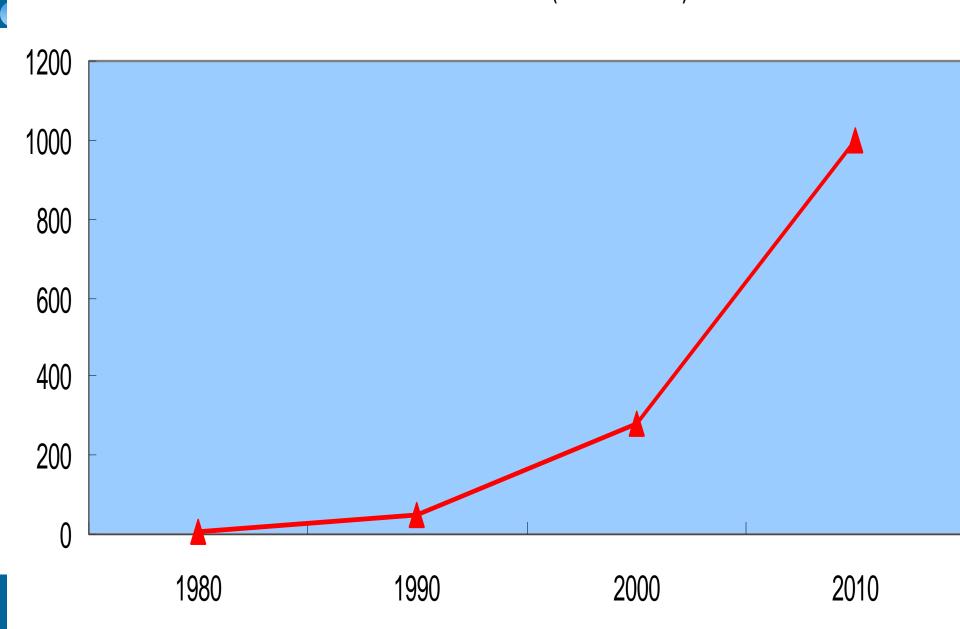
GONG Ke

Tianjin University, China

R&D(Billion RMB)



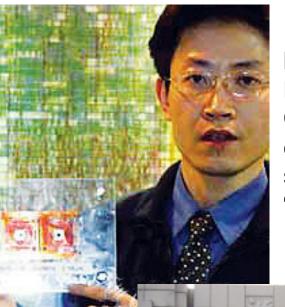
TU's research income (Million RMB)





 Scientific and technical research in China has experienced dramatic growth in past 30 years, however some misconducts have also appeared. How to maintain research integrity become a serious challenge to universities and research institutes.





Dr. CHEN Jin had used a Motorola DSP Chip to counterfeit self-developed "first Chinese DSP chip.

Dr. LI
Liansheng
had
aggrandized
his
achievement
for applying
national
award.



Dr. HE Haibo had seriously plagiarized research results from others and used falsified data to publish his papers.



- When we first dealt with the misconducts, it was found there were no relevant regulations to treat the issues.
- So, great efforts have been made to develop academic ethical codes and research rules.

教育科研机构管理规定

- 河北大学对学位论文抄袭剽窃、弄虚作假行为的处理办法(试行)
- 中国政法大学学位论文学术规范审查办法
- 浙江大学学术道德行为规范及管理办法
- 浙江大学本科生学术道德问题调查规程
- 广西大学学术道德规范
- 西北农林科技大学学术道德规范
- 陕西师范大学学术道德规范实施细则
- 安徽师范大学教师学术道德规范
- 武汉大学学术道德规范实施细则
- 四川大学关于学位(毕业)论文抄袭、剽窃等学术不端行为的处理办法(试行)
- 中国科学院金属研究所研究生、博士后学术道德规范管理办法
- 哈尔滨工业大学学术道德规范(试行稿)
- 同济大学教师学术道德规范
- 广东商学院学术道德规范建设与管理办法(试行)
- 华中科技大学学术道德规范及学术不端行为处理规定(试行)

教育科研机构管理规定

- 重庆市社科规划项目实施中科研不端行为处理办法(试行)
- 南京大学科学研究行为规范与学风建设管理办法(试行)
- 上海交通大学学术道德委员会章程(试行)
- 北京大学化学学院学术道德委员会工作暂行条例
- 福建师范大学关于加强学术道德规范的若干规定
- 清华大学关于加强学术道德建设的若干意见
- 清华大学关于学术不端行为的处理办法(试行)
- 复旦大学学术规范及违规处理办法(试行)
- 中国人民大学科学研究行为规范及管理办法(试行)
- 西安交通大学学术行为规范及管理办法



中华人民共和国教育部

Ministry of Education of the People's Republic of China

Ministry of Education of the Feople's Republic of Ch

机构设置 新闻动态 政策法规 公报公告 教育统计

行政审批

项目指南

生考试

文献资

English

教育部关于严肃处理高等学校学术不端行为的通知

教社科 [2009] 3号

各省、自治区、直辖市教育厅(教委),新疆生产建设兵团教育局,计划单列市教育局,有关部门(单

位)教育司(局),部属各高

长期以来,高等学校广大 科学、积极进取、锐意创新, 献。但发生在少数人身上的学 实措施加以解决,绝不姑息。

中华人民共和国科学技术部

The Ministry of Science and Technology of the People's Republic of China

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[缩小字体]

[打印] [发送]

] [我要纠错]

[美闭窗口]

www.most.gov.cn

科技部门户 > 科研诚信建设 > 规范性文件

科学技术部令第11号 《国家科技计划实施中科研不端行为处理办法(试行)》

科技部门户网站 www.most.gov.cn

2006年11月10日

来源:科技部

《国家科技计划实施中科研不端行为处理办法(试行)》已于2006年9月14日经科学技术部第25次部务会议审 议通过,现予发布,自2007年1月1日起施行。

部长 徐冠华 二零零六年十一月七日



图科发项 [2009] 529号

关于印发《关于加强我国科研 诚信建设的意见》的通知

各省、自治区、直辖市及计划单列市科技、教育、财政、人事、卫 生厅(委、局)、科协、部署生产建议长国科技、教育、财政、人 事、卫生局、科协、国务院有关部门科技、教育主管司(局)、中 科院各分院、研究所:

为加强我国科研诚信建设。科研诚信建设联席会议单位联合发 布 4关于加强我国科研诚信建设的意见》。 我印发给你们,请认真 贯彻落实。

国务院学位委员会文件

学位[2010]9号

国务院学位委员会关于在学位授予工作中加强学术道德和学术规范建设的意见

各省、自治区、直辖市学位委员会,新疆生产建设兵团教育局,有关部门(单位)教育(人事)司(局),中国人民解放军学位委员会,中共中央党校学位评定委员会,各学位授予单位:

自 1981 年我国实施学位制度以来,各学位授予单位按照 《中华人民共和国学位条例》及其暂行实施办法的规定,建 立健全规章制度,树立良好学习风气,认真做好学位授予工 作,保证了我国学位授予的质量,为我国高层次人才培养做 出了重要贡献。近年来,在学位授予工作中出现了一些学术 不端行为,损害了我国学位形象。为进一步加强学术道德和 学术规范建设,特提出如下意见。

一、在学位授予工作中加强学术道德和学术规范建设, 对树立良好学风,培养正直诚信、恪守科学道德、献身科学 研究的拔尖创新人才具有重要作用,各学位授予单位必须高





中国科协年会 学会建设 学术交流 讲比活动 科普惠农兴 全国科普日 全民科学素质纲要 视听科学 科普资源开发指 继续教育 表彰奖励 工作研究 计划预算 机关党建 文件资料

首页 | 关于中国科协 | 领导机构 | 机关部门 | 要闻 | 工作动态 | 全国学会 | 地方科协 | 基层建设 | 科学博客 | 媒体

❖ 科学道德建设

科技工作者科学道德规范(试行)

2009年10月31日

(2007年1月16日中国科协七届三次常委会议审议通过)

第一章 总 则

第一条 为弘扬科学精神,加强科学道德和学风建设,提高科技工作者创新能力,促进科学技术的繁荣 发展,中国科学技术协会根据国家有关法律法规制定《科技工作者科学道德规范》。

第二条 本规范适用于中国科学技术协会所属全国学会、协会、研究会会员及其他科技工作者。

第三条 科技工作者应坚持科学真理、尊重科学规律、崇尚严谨求实的学风,勇于探索创新,恪守职业道德,维护科学诚信。



维要素示 http://www.oprip.o

Vol. 30 No. 3 第30 卷第3 期 煤炭学機 JOURNAL OF CHINA COAL SOCIETY 2005年 6月

文章编号:0253 - 999 (2005) 03 - 0374 - 04

煤油共处理生成沥青性质研究

亲礼铁, 连枪林

《天产人学·希伦技术内家工程研究中心、人体 300/02/)

摘 蒌:本实验以煤和石油渣油(l:1)为主要原料、进行共处理反应研究、概述了进行成反应 在不同条件下反应产物的性质评定、指出由于温度、反应用间等实验条件的不同。重质产物的性 质存在着很大的差别,随着反应温度的变化。催化聚化油浆与充焦媒并处理的重质产物族组成至 视峰性的变化,重质产物性质与高等级道路沥青近似,由此设验可看出,重质产物有望用于制备 高等纹道端的音

美鑵词:性化裂化油浆; 共处理; 沥青 中国分类号; IN529.1 文献标识码; A

Study on asphalt produced by coprocessing coal and catalytic cracking residue

LUAN Li-xia, XII Song-lin

1 Sakond Enganoling Research Create for Datablation Technology, Tisoger Connects, Tisoger 200872, China;

Abstract. The on processing reaction of cool and catalytic residue (CCR), respecially the heavy tolucae soluble fractions (HTSF) produced were studied on a autoritive when the ratio of road to CCB is U.L. The yield of HTSF is the highest among the other products. The properties of the HTSF changes regularly with the variation of reaction temperature and time. Group composition of HTSF from co-processing of coal and CCR changes regularly with some rules. Characters of HTSF and the asphalt are approximative. It may be used as high grade paving asphalt for highway and a pitch precursor of carbon artifacts.

Key words; entalytic eracking residue; on-processing; asphalt

煤油共处理被认为是将爆和海油同时转化或沾净液体燃料的最有发展前景的路线、煤油共处理在得到 轮质油品和少量气体的同时,还会有相当量的重新产物生成 11.5。近 20 g 来,虽然集的其处理研究已取得 很大进展,但由于单纯追求油收率。忽略了重质产物的利用问题,从而导致了反应条件较为苛疑。因此成 本柜对较高。若能深入了解軍馬产物的組成性质,对其合理利用(如用作道路沥青或碳材料^(一)等),很 可能形成温和的、以多元产物为目的的煤油共处理新工艺,从而进一步降低煤油共处理成本、改善其意体 经济性 '。本研究采用媒有石油清油加氢高压共处现的方法,为重质产物的开发利用提供理论基础。

1 实验方法

i.l 主要原材料

实验用煤为小于80 目的山东兖州煤、催化剂为担载的 Fe/5 单继化剂。担载量为 Fe(0.6%);5

華金項目。国家自然外学墨金安山和(11 (20075050))

性者简介:杂礼使(1978),男,河北那台人,硕士研究中 樂 系 人:背板牌、"tel:022 - 27494701,E - mail:sissa@ija. eda. ea

In 2006, a graduated doctor student had been prosecuted for plagiarizing research results of a lab of China **Academy of Science** where he had visited, after notarized his plagiarism, his doctor degree had been canceled by the university.







Chemical Engineering and Processing 47 (2008) 245-250

Model of mass transfer in polyvinyl alcohol membrane for isopropanol/water mixture

Meng Han a,*, Bo Zhao b, Xue-Mei Zhang a, Wei-Jiang Zhang a * Chemical Engineering Research Center, Tianjin University, Tianjin 300072, China
* School of Chemical Engineering & Technology, Hebei University of Technology, Tianjin 300130, China Received 13 August 2006; received in revised form 3 January 2007; accepted 16 January 2007 Available online 30 January 2007

Abstract

Based on Flory-Huggins theory and Fick's law, the model of mass transfer in polyvinyl alcohol (PVA) membrane for isopropanol/water mixture was established. The predicted results fit well with the experimental data. The interactional parameter between water and PVA membrane is less than that between isopropanol and PVA membrane, which validates that water is preferentially adsorbed and dissolved in PVA membrane. The plasticizing coefficient and diffusion coefficient at infinite dilution of water are larger than those of isopropanol, which shows that the dissolution and permeation of water are greater than those of isopropanol in PVA membrane. So water permeates preferentially. Both the interactional parameter between water and isopropanol in PVA membrane and that in feed rise with the increase of isopropanol content in feed, which shows that the larger opanol content is, the higher selectivity of PVA membrane is and the more remarkable separation effect of pervaporation process is

Keywords: Polyvinyl alcohol membrane: Swelling equilibrium: Permeate flux: Isonrocanol/water mixture: Pervaporation

Pervaporation (PV) is an energy-efficient process for the separation of liquid mixtures in the chemical processing industry, especially for separation of azeotropic or close-boiling liquid mixtures [1]. Now dehydration of organic solvents is the bestdeveloped area in PV technology.

One vital issue for industrial application of PV processes is the ability to tailor membrane materials with high PV performance. Another fundamental issue is modeling pervaporation transport to optimize PV process. The model of mass transfer through the membrane has been studied quite extensively [2]. Many models were proposed to predict the mass transfer process, such as solution-diffusion model [3], thermodynamics of irreversible process [4], Maxwell-Stefan theory [5], pore flow model [6], pseudo phase change solution-diffusion model [7], resistance-in-series model [8], molecular simulation [9] and so on. Among them, solution-diffusion model is most widely used in describing PV transport including sorption and diffusion steps. Considerable attention has been focused on the mass transfer behavior in recent years.

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For modeling pervaporation transport, the permeation flux, which depends on the solubility and diffusivity of components in the membrane, should be obtained. Usually, the solubility is calculated according to the Flory-Huggins theory [10]. For the diffusivity, the predictive methods of component diffusion in polymer solution have been commonly studied [11]. The solvent transport in the membrane is generally considered to be a molecular diffusion mechanism, so Fick's law [12,13] is often used to describe the diffusion process of component in membrane, which mainly involves in the calculation of diffusion coefficient. In recent years, many papers [14-16] have described the diffusion coefficient of binary mixtures in pervaporation membrane, where the magnitude of obtained diffusion coefficient is about 10-7 to 10-11 m2 h-1

Isopropanol, a widely used solvent in chemical and pharmaceutical industries, is known to form an azeotrope with water, a characteristic that creates difficulties in its recovery by the conventional distillation [17], while PV technique, as a economical and safe and clean means, is anticipated to achieve dehydration of isopropanol. So the pilot studies have been carried out by the author of this paper and satisfactory results have been obtained

In this study, polyvinyl alcohol (PVA) membrane is employed to separate isopropanol/water mixture. And based on 偏和性 幾6期 天 让 人 学 学 报 Journal of Timple University Vol. 40 No. 6 Fur. 2007

异丙醇水混合物在 PVA 膜中的传质模型

排 演'。李春利'。张雪梅',张玉豆' (1. 天津大学化学工程研究所, 天津 300072 (2. 河北工业大学化工学成, 天津 300130)

有一要:根据 Play-Hoppor。理论和客解-扩展模型,建立了 323 K 下来已始略(PVA) 联分离产用解水溶放过程的特 质键型,推进对更值与实态性对合类对,水与 PVA 随的相互作用参数小于界内部与 PVA 联的相互作用参数、说明 水头投洞就至今完徽于井两野与提问场相互作用,水在膜中机光吸射溶解,水的淘记系数和无理特件扩散系数都 大于异丙醇特加化系数和之限转移扩散系数,证明水在假中的溶塑能力及扩散能力部为了异丙醇在眼中断溶解能 为双扩张论力,永在PNA 疏中化免进性, 严商解与水的相互作用参数随户两雕准度的并高而增大,说明并两颗浓度 **我高.PVA.运输选择处超好,必要汽化会有效从趋势** 美健健、治治为化、异内野水形器、作序平衡、冷透通导、模型

中国分类等,TQ028.8 文献标志码。A 文章编号,0493-2137(2007)06-0694-08

Transport Model of Isopropanol-Water System in PVA Membrane

HAY Meng., LI Chun-li2, ZHANG Xuo-mei1, ZHANG Wei-jiang. (1. Chemical Engineering Research Center, Transpir University, Transpir 300072, China; 2. Sebool of Chemical Engineering and Technology, Holmi University of Technology, Tozojia 300130, China)

Abstract: Hand on the Flory Huggins theory and solution-diffusion model, the transport model of impropand water system in polyvinyl alcohol (PVA) membrane was established at 323 K. The calculated values of the model were in a good agreement with experimental values. The interactional parameter between water and IVA monthmen were loss than that between teopropanel and PVA membrane, which aboved that water war preferentially adsorbed and dissolved in PVA membrane. The plasticizing coefficient and infinite dilution diffusion coef-Scient of nate, nore larger than those of isopropanel, which showed that the dissolution and pervasion of water were superior to these of isoproposed in PVA prombrane, so water permeates preferentially. The interactional panameter between water and isopropanol rises with the increase of isopropanal concentration in the mixture, which showed that the higher isograpsical concentration leads to the higher selectivity of the membrane and the better accountion effect of personeration.

Keywowlk; pervaporation: isopropane.-water system: exciling balance; permeate flux; mindel

应用:同时,一些工厂成水中准含有人量异丙醇,合则 案,取得较好结果? 回收利用异丙醇,不但可避免污染,还能降低或本,由 法无法经济地将异西摩·和水分离11、激励汽化是一种。 高碳的绿色分离方法。在石油化工、医药、食品、环保等。

异冠醇在溶剂、清洗剂、制药、有机合成等诸多钡——生产生活领域中有着广阔的应用而量¹¹. 采用 PV 技 城中应用广泛,目前,丙烯水合法生产异应应及其发展 术分离异丙醇水溶液,只有工艺经济简单、无污染、条 前途,但此法产品中含有少量水,直接影响了异丙醛的一一件温和,激能高等清多优点,笔者曾对此数了初步探

目前关于渗透汽化的研究主要集中于高性能模材 于异丙醇与水能形成共沸混合物、利用传统的分离方 料的制备以及相关传质机则的研究。限于高分子技术 现状,关于高性能膜材料的研究进展缓慢,而相关传动 机则在近几年得到了广泛的研究并取得一定进展,主

後職召開,5006-19-18, 修置召勘,2007-01-06 作者的介: (2) 整(1979) 月 博士研究生 通讯作者: 张雪荷 , shangersenei Frijn eds. cn.

In 2007, we are informed that Prof. ZHANG and his students had double published their research in Chinese and in English journals, so they are all punished by the university.

Corresponding author. Tel.: +86 13820919653; fax: +86 22 27409476. E-mail address: hmstar2570@126.com (M. Han).



 In treating with misconduct prosecuting, a big challenge we are facing is how to avoid conflicts of interests, so that some "objective" criterion had been introduced and software has been developed for.....



 And, we found it is necessary that the academic society in various fields takes the responsibility to maintain the research integrity and to give trustworthy judgments.



- In 2009, a well performed young faculty applied for promoting to associate professorship, however, he is prosecuted for doubled publication in Chinese and English in 2002 when he was a student.
- This had been caused a big debate.



- Many students asked why a research result could not published multiply?
- This made us to realize the more important issue is to let student not only be aware of the rules but also to understand the inbeing of the rules, i.e. the VERITY.



 So, we have established training courses for both students and faculty, in order to help students to understand why and how to keep the research integrity.



In summary

- to set up good rules
- to avoid interest conflicts in implementing the rules
- to educate students understand the inbeing of the rules, which are <u>verity</u> and <u>responsibility</u>