大连化物所科技论文奖励申报表

（百次引用论文奖）

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| --- | --- | --- | --- | --- | --- |
| **论文题目** | **Hydrolysis of cellulose into glucose over carbons sulfonated at elevated temperatures** | | | | |
| **作者（英文）** | **Jifeng Pang, Aiqin Wang, Mingyuan Zheng and Tao Zhang** | | | | |
| **作者（中文）** | **庞纪峰，王爱琴，郑明远，张涛** | | | | |
| **期刊名称** | **CHEMICAL COMMUNICATIONS** | | | | |
| **发表日期** | **2010,7,22** | **卷** | **46** | **起止页码** | **6935-6937** |
| **总引用次数** | **128** | | | **他引次数** | **112** |
| **填表人** | 我保证填写内容的真实性，若填报失实和违反管理办法，本人将承担相关责任。  **签字 年 月 日** | | | | |
| **通讯作者** | 我保证申报内容的真实性，若填报失实和违反管理办法，本人将承担相关责任。  **签字 年 月 日** | | | | |
| **研究组长** | 我已按管理办法和申报说明对申报内容进行了审核，保证申报内容的真实性，若填报失实和违反管理办法，本人将承担全部责任。  **签字 年 月 日** | | | | |

说明：1、申请本年度百次引用论文奖的论文发表时间为2006-2015年；2、引用检索数库为Web of Science数据库核心合集的SCI-E，他引次数须超过100次；3、引用数据检索截止时间为2015年12月31日；4、他引：是指剔除了申报奖励论文（即被引用论文）所有作者的全部引用文献。例：某篇申报奖励论文有作者a、b、c、d、e，他引是指引用此篇论文的所有文献作者中，不能有a、b、c、d、e的任何一位。

百次引用论文奖引用论文清单

（他引）

**一、引用论文第一产权单位为国外机构**

第 1 条，共 58 条

标题: Chemocatalytic conversion of cellulose: opportunities, advances and pitfalls

作者: Geboers, Jan A., Van de Vyver, Stijn, Ooms, Roselinde, de Beeck, Beau Op, Jacobs, Pierre A., Sels, Bert F.

来源出版物: CATALYSIS SCIENCE & TECHNOLOGY 卷:1 页: 714-726 出版年: 2011

第 2 条，共 58 条

标题: Recent Advances in the Catalytic Conversion of Cellulose

作者: Van De Vyver, S , Geboers, J , Jacobs, PA , Sels, BF

来源出版物: CHEMCATCHEM 卷: 3 页: 82-94 出版年: JAN 2011

第 3 条，共 58 条

标题: Efficient hydrolytic hydrogenation of cellulose in the presence of Ru-loaded zeolites and trace amounts of mineral acid

作者: Geboers, Jan; Van de Vyver, Stijn; Carpentier, Kevin; Jacobs, PA , Sels, BF

来源出版物: CHEMICAL COMMUNICATIONS 卷: 47 页: 5590-5592 出版年: 2011

第 4 条，共 58 条

标题: Hydrolytic hydrogenation of cellulose with hydrotreated caesium salts of heteropoly acids and Ru/C

作者: Geboers, Jan; Van de Vyver, Stijn; Carpentier, Kevin; Jacobs, PA , Sels, BF

来源出版物: GREEN CHEMISTRY 卷: 13 期: 8 页: 2167-2174 出版年: 2011

第 5 条，共 58 条

标题:Recent Developments in the Catalytic Conversion of Cellulose into Valuable Chemicals

作者: Yang, Pengfei; Kobayashi, Hirokazu; Fukuoka, Atsushi

来源出版物: CHINESE JOURNAL OF CATALYSIS 卷: 32 期: 5 特刊: SI 页: 716-722 出版年: MAY 2011

第 6 条，共 58 条

标题: Cellulose reactivity and glycosidic bond cleavage in aqueous phase by catalytic and non catalytic transformations

作者: Cabiac, Amandine; Guillon, Emmanuelle; Chambon, Flora; 等.

来源出版物: APPLIED CATALYSIS A-GENERAL 卷: 402 期: 1-2 页: 1-10 出版年: JUL 31 2011

第 7 条，共 58 条

标题: Catalytic production of levulinic acid from cellulose and other biomass-derived carbohydrates with sulfonated hyperbranched poly(arylene oxindole)s

作者: Van de Vyver, Stijn; Thomas, Joice; Geboers, Jan; 等.

来源出版物: ENERGY & ENVIRONMENTAL SCIENCE 卷: 4 期: 9 页: 3601-3610 出版年: SEP 2011

第 8 条，共 58 条

标题: Hydrolysis of Sugars Using Magnetic Silica Nanoparticles with Sulfonic Acid Groups

作者: Takagaki, Atsushi; Nishimura, Masatoshi; Nishimura, Shun; 等.

来源出版物: CHEMISTRY LETTERS 卷: 40 期: 10 页: 1195-1197 出版年: OCT 5 2011

第 9 条，共 58 条

标题: Catalysis and characterization of carbon-supported ruthenium for cellulose hydrolysis

作者: Komanoya, Tasuku; Kobayashi, Hirokazu; Hara, Kenji; 等.

来源出版物: APPLIED CATALYSIS A-GENERAL 卷: 407 期: 1-2 页: 188-194 出版年: NOV 4 2011

第 10 条，共 58 条

标题: Conversion of cellulose into renewable chemicals by supported metal catalysis

作者: Kobayashi, Hirokazu; Komanoya, Tasuku; Guha, Samar K.; 等.

来源出版物: APPLIED CATALYSIS A-GENERAL 卷: 409 页: 13-20 出版年: DEC 15 2011

第 11 条，共 58 条

标题: A One-Pot Method for the Selective Conversion of Hemicellulose from Crop Waste into C5 Sugars and Furfural by Using Solid Acid Catalysts

作者: Sahu, Ramakanta; Dhepe, Paresh Laxmikant

来源出版物: CHEMSUSCHEM 卷: 5 期: 4 页: 751-761 出版年: 2012

第 12 条，共 58 条

标题: Conversion of lignocellulose into renewable chemicals by heterogeneous catalysis

作者: Kobayashi, Hirokazu; Ohta, Hidetoshi; Fukuoka, Atsushi

来源出版物: CATALYSIS SCIENCE & TECHNOLOGY 卷: 2 期: 5 页: 869-883 出版年: 2012

第 13 条，共 58 条

标题: Direct production of glucose from glycogen under microwave irradiation

作者: Klein, Miri; Pulidindi, Indra Neel; Perkas, Nina; 等.

来源出版物: RSC ADVANCES 卷: 2 期: 18 页: 7262-7267 出版年: 2012

第 14 条，共 58 条

标题: Synthesis of the strongly acidic sulfonated condensed polynuclear aromatic (S-COPNA) resins using aromatic aldehydes as cross-linking agents

作者: Tanemura, Kiyoshi; Suzuki, Tsuneo; Nishida, Yoko; 等.

来源出版物: POLYMER BULLETIN 卷: 68 期: 3 页: 705-719 出版年: FEB 2012

第 15 条，共 58 条

标题: Solid Acid-Catalyzed Cellulose Hydrolysis Monitored by In Situ ATR-IR Spectroscopy

作者: Zakzeski, Joseph; Grisel, Ruud J. H.; Smit, Arjan T.; 等.

来源出版物: CHEMSUSCHEM 卷: 5 期: 2 特刊: SI 页: 430-437 出版年: FEB 13 2012

第 16 条，共 58 条

标题: Direct conversion of cellulose into sorbitol using dual-functionalized catalysts in neutral aqueous solution

作者: Han, Joung Woo; Lee, Hyunjoo

来源出版物: CATALYSIS COMMUNICATIONS 卷: 19 页: 115-118 出版年: MAR 2012

第 17 条，共 58 条

标题: Bifunctional Materials for the Catalytic Conversion of Cellulose into Soluble Renewable Biorefinery Feedstocks

作者: Reyes-Luyanda, Damian; Flores-Cruz, Josseant; Morales-Perez, Pedro J.; 等.

来源出版物: TOPICS IN CATALYSIS 卷: 55 期: 3-4 页: 148-161 出版年: MAY 2012

第 18 条，共 58 条

标题: Hydrolysis of cellulose by cellulase-mimetic solid catalyst

作者: Shuai, Li; Pan, Xuejun

来源出版物: ENERGY & ENVIRONMENTAL SCIENCE 卷: 5 期: 5 页: 6889-6894 出版年: MAY 2012

第 19 条，共 58 条

标题: Production of levulinic acid from cellulose by hydrothermal decomposition combined with aqueous phase dehydration with a solid acid catalyst

作者: Weingarten, Ronen; Conner, Wm. Curt, Jr.; Huber, George W.

来源出版物: ENERGY & ENVIRONMENTAL SCIENCE 卷: 5 期: 6 页: 7559-7574 出版年: JUN 2012

第 20 条，共 58 条

标题: Amorphous Carbon with SO3H Groups as a Solid Bronsted Acid Catalyst

作者: Nakajima, Kiyotaka; Hara, Michikazu

来源出版物: ACS CATALYSIS 卷: 2 期: 7 页: 1296-1304 出版年: JUL 2012

第 21 条，共 58 条

标题: Sn-Doped Hydroxylated MgF2 Catalysts for the Fast and Selective Saccharification of Cellulose to Glucose

作者: Wuttke, Stefan; Negoi, Alina; Gheorghe, Nicoleta; 等.

来源出版物: CHEMSUSCHEM 卷: 5 期: 9 页: 1708-1711 出版年: SEP 2012

第 22 条，共 58 条

标题: Glucan Adsorption on Mesoporous Carbon Nanoparticles: Effect of Chain Length and Internal Surface

作者: Chung, Po-Wen; Charmot, Alexandre; Gazit, Oz M.; 等.

来源出版物: LANGMUIR 卷: 28 期: 43 页: 15222-15232 出版年: OCT 30 2012

第 23 条，共 58 条

标题: Unravelling the properties of supported copper oxide: can the particle size induce acidic behaviour?

作者: Zaccheria, Federica; Scotti, Nicola; Marelli, Marcello; 等.

来源出版物: DALTON TRANSACTIONS 卷: 42 期: 5 页: 1319-1328 出版年: 2013

第 24 条，共 58 条

标题:Hemicellulose hydrolysis catalysed by solid acids

作者: Cara, Piera Demma; Pagliaro, Mario; Elmekawy, Ahmed; 等.

来源出版物: CATALYSIS SCIENCE & TECHNOLOGY 卷: 3 期: 8 页: 2057-2061 出版年: 2013

第 25 条，共 58 条

标题:Synthesis and utilisation of sugar compounds derived from lignocellulosic biomass

作者: Kobayashi, Hirokazu; Fukuoka, Atsushi

来源出版物: GREEN CHEMISTRY 卷: 15 期: 7 页: 1740-1763 出版年: 2013

第 26 条，共 58 条

标题:Depolymerization of cellulosic feedstocks using magnetically separable functionalized graphene oxide

作者: Verma, Deepak; Tiwari, Rashmi; Sinha, Anil Kumar

来源出版物: RSC ADVANCES 卷: 3 期: 32 页: 13265-13272 出版年: 2013

第 27 条，共 58 条

标题: Synthesis of sulfonated polynaphthalene, polyanthracene, and polypyrene as strong solid acids via oxidative coupling polymerization

作者: Tanemura, Kiyoshi; Suzuki, Tsuneo; Horaguchi, Takaaki

来源出版物: JOURNAL OF APPLIED POLYMER SCIENCE 卷: 127 期: 6 页: 4524-4536 出版年: MAR 15 2013

第 28 条，共 58 条

标题:A Mesoporous Carbon-Supported Pt Nanocatalyst for the Conversion of Lignocellulose to Sugar Alcohols

作者: Park, Dae Sung; Yun, Danim; Kim, Tae Yong; 等.

来源出版物: CHEMSUSCHEM 卷: 6 期: 12 页: 2281-2289 出版年: DEC 2013

第 29 条，共 58 条

标题: Hydrogenolysis of cellulose to valuable chemicals over activated carbon supported mono- and bimetallic nickel/tungsten catalysts

作者: Fabicovicova, Katarina; Malter, Oliver; Lucas, Martin; 等.

来源出版物: GREEN CHEMISTRY 卷: 16 期: 7 页: 3580-3588 出版年: 2014

第 30 条，共 58 条

标题: Quantitative evaluation of ball-milling effects on the hydrolysis of cellulose catalysed by activated carbon

作者: Yabushita, Mizuho; Kobayashi, Hirokazu; Hara, Kenji; 等.

来源出版物: CATALYSIS SCIENCE & TECHNOLOGY 卷: 4 期: 8 页: 2312-2317 出版年: 2014

第 31 条，共 58 条

标题: Catalytic transformation of cellulose into platform chemicals

作者: Yabushita, Mizuho; Kobayashi, Hirokazu; Fukuoka, Atsushi

来源出版物: APPLIED CATALYSIS B-ENVIRONMENTAL 卷: 145 特刊: SI 页: 1-9 出版年: FEB 2014

第 32 条，共 58 条

标题: Zr/P/O catalyst for the direct acid chemo-hydrolysis of non-pretreated microcrystalline cellulose and softwood sawdust

作者: Gliozzi, Gherardo; Innorta, Anna; Mancini, Alessia; 等.

来源出版物: APPLIED CATALYSIS B-ENVIRONMENTAL 卷: 145 特刊: SI 页: 24-33 出版年: FEB 2014

第 33 条，共58 条

标题: Thermochemical saccharification of cellulose: The benefit of adding a scavenger

作者: Grisel, Ruud J. H.; Smit, Arjan T.

来源出版物: APPLIED CATALYSIS A-GENERAL 卷: 475 页: 438-445 出版年: APR 5 2014

第 34 条，共 58 条

标题: Entropically Favored Adsorption of Cellulosic Molecules onto Carbon Materials through Hydrophobic Functionalities

作者: Yabushita, Mizuho; Kobayashi, Hirokazu; Hasegawa, Jun-ya; 等.

来源出版物: CHEMSUSCHEM 卷: 7 期: 5 特刊: SI 页: 1443-1450 出版年: MAY 2014

第 35 条，共 58 条

标题:Functional carbons and carbon nanohybrids for the catalytic conversion of biomass to renewable chemicals in the condensed phase

作者: Matthiesen, John; Hoff, Thomas; Liu, Chi; 等.

来源出版物: CHINESE JOURNAL OF CATALYSIS 卷: 35 期: 6 页: 842-855 出版年: JUN 2014

第 36 条，共 58 条

标题: Carbon Materials as Catalyst Supports and Catalysts in the Transformation of Biomass to Fuels and Chemicals

作者: Lam, Edmond; Luong, John H. T.

来源出版物: ACS CATALYSIS 卷: 4 期: 10 页: 3393-3410 出版年: OCT 2014

第 37 条，共 58 条

标题:Cellulose Capitalization to Bio-chemicals in the Presence of Magnetic Nanoparticle Catalysts

作者: Podolean, Iunia; Negoi, Alina; Candu, Natalia; 等.

来源出版物: TOPICS IN CATALYSIS 卷: 57 期: 17-20 页: 1463-1469 出版年: NOV 2014

第 38 条，共 58 条

标题: Direct thermochemical liquefaction of microcrystalline cellulose by sub- and supercritical organic solvents

作者: Koriakin, Anton; Van Nguyen, Hai; Kim, Doo Wook; 等.

来源出版物: JOURNAL OF SUPERCRITICAL FLUIDS 卷: 95 页: 175-186 出版年: NOV 2014

第 39 条，共 58 条

标题: Catalytic hydrolysis of cellulose and oil palm biomass in ionic liquid to reducing sugar for levulinic acid production

作者: Ramli, Nur Aainaa Syahirah; Amin, Nor Aishah Saidina

来源出版物:FUEL PROCESSING TECHNOLOGY 卷: 128 页: 490-498 出版年: DEC 2014

第 40 条，共 58 条

标题: Catalytic Hydrolysis of Cellulose to Glucose Using Weak-Acid Surface Sites on Postsynthetically Modified Carbon

作者: Charmot, Alexandre; Chung, Po-Wen; Katz, Alexander

来源出版物: ACS SUSTAINABLE CHEMISTRY & ENGINEERING 卷: 2 期: 12 页: 2866-2872 出版年: DEC 2014

第 41 条，共 58 条

标题: Valorisation of Vietnamese Rice Straw Waste: Catalytic Aqueous Phase Reforming of Hydrolysate from Steam Explosion to Platform Chemicals

作者: Cao Huong Giang; Osatiashtiani, Amin; dos Santos, Vannia Cristina; 等.

来源出版物: CATALYSTS 卷: 4 期: 4 页: 414-426 出版年: DEC 2014

第 42 条，共 58 条

标题: Functionalized Activated Carbon Derived from Biomass for Photocatalysis Applications Perspective

作者: Bagheri, Samira; Julkapli, Nurhidayatullaili Muhd; Abd Hamid, Sharifah Bee

来源出版物: INTERNATIONAL JOURNAL OF PHOTOENERGY 文献号: 218743 出版年: 2015

第 43 条，共58 条

标题: Sulfonated polyanthracene-catalyzed highly efficient and chemoselective thioacetalization of carbonyl compounds and transthioacetalization of acetals and acylals

作者: Fahid, F.; Pourmousavi, S. A.

来源出版物: JOURNAL OF SULFUR CHEMISTRY 卷: 36 期: 1 页: 16-29 出版年: JAN 2 2015

第 44 条，共 58 条

标题: Synergistic Effect between Defect Sites and Functional Groups on the Hydrolysis of Cellulose over Activated Carbon

作者: Foo, Guo Shiou; Sievers, Carsten

来源出版物: CHEMSUSCHEM 卷: 8 期: 3 页: 534-543 出版年: FEB 2015

第 45 条，共 58 条

标题: Production of Renewable Hexanols from Mechanocatalytically Depolymerized Cellulose by Using Ir-ReOx/SiO2 catalyst

作者: Liu, Sibao; Okuyama, Yasuyo; Tamura, Masazumi; 等.

来源出版物: CHEMSUSCHEM 卷: 8 期: 4 页: 628-635 出版年: FEB 2015

第 46 条，共 58 条

标题: Biomass-Derived Porous Carbon Materials: Synthesis and Catalytic Applications

作者: De, Sudipta; Balu, Alina Mariana; van der Waal, Jan C.; 等.

来源出版物: CHEMCATCHEM 卷: 7 期: 11 页: 1608-1629 出版年: JUN 1 2015

第 47 条，共 58 条

标题: Hydrolysis of biomass using a reusable solid carbon acid catalyst and fermentation of the catalytic hydrolysate to ethanol

作者: Goswami, Mandavi; Meena, S.; Navatha, S.; 等.

来源出版物: BIORESOURCE TECHNOLOGY 卷: 188 页: 99-102 出版年: JUL 2015

第 48 条，共 58 条

标题: Importance of Internal Porosity for Glucan Adsorption in Mesoporous Carbon Materials

作者: Chung, Po-Wen; Charmot, Alexandre; Click, Timothy; 等.

来源出版物: LANGMUIR 卷: 31 期: 26 页: 7288-7295 出版年: JUL 7 2015

第 49 条，共 58 条

标题:Hydrolysis of Cellobiose over Selective and Stable Sulfonated Activated Carbon Catalysts

作者: Foo, Guo Shiou; Van Pelt, Adam H.; Kroetschel, Daniel; 等.

ACS SUSTAINABLE CHEMISTRY & ENGINEERING 卷: 3 期: 9 页: 1934-1942 出版年: SEP 2015

第50 条，共 58 条

标题: Synergy of Vicinal Oxygenated Groups of Catalysts for Hydrolysis of Cellulosic Molecules

作者: Kobayashi, Hirokazu; Yabushita, Mizuho; Hasegawa, Jun-ya; 等.

来源出版物: JOURNAL OF PHYSICAL CHEMISTRY C 卷: 119 期: 36 页: 20993-20999 出版年: SEP 10 2015

第 51 条，共58 条

标题: Weak-Acid Sites Catalyze the Hydrolysis of Crystalline Cellulose to Glucose in Water: Importance of Post-Synthetic Functionalization of the Carbon Surface

作者: Anh The To; Chung, Po-Wen; Katz, Alexander

来源出版物: ANGEWANDTE CHEMIE-INTERNATIONAL EDITION 卷: 54 期: 38 页: 11050-11053 出版年: SEP 14 2015

第 52 条，共 58 条

标题:Towards carbon efficient biorefining: Multifunctional mesoporous solid acids obtained from biodiesel production wastes for biomass conversion

作者: Konwar, Lakhya Jyoti; Maki-Arvela, Paivi; Salminen, Eero; 等.

来源出版物: APPLIED CATALYSIS B-ENVIRONMENTAL 卷: 176 页: 20-35 出版年: OCT 2015

第 53 条，共 58 条

标题: 1D Lignin-Based Solid Acid Catalysts for Cellulose Hydrolysis to Glucose and Nanocellulose

作者: Hu, Sixiao; Jiang, Feng; Hsieh, You-Lo

来源出版物: ACS SUSTAINABLE CHEMISTRY & ENGINEERING 卷: 3 期: 10 页: 2566-2574 出版年: OCT 2015

第 54 条，共 58 条

标题: Long-Chain Glucan Adsorption and Depolymerization in Zeolite-Templated Carbon Catalysts

作者: Chung, Po-Wen; Yabushita, Mizuho; Anh The To; 等.

来源出版物: ACS Catalysis 卷: 5 期: 11 页: 6422-6425 出版年: NOV 2015

第 55 条，共 58 条

标题: Catalytic Decomposition of 2,3-Dihydrobenzofuran to Monocyclic Compounds Over Palladium Catalysts Supported on Sulfonated Ordered Mesoporous Carbon

作者: Kim, Jeong Kwon; Park, Hai Woong; Hong, Ung Gi; 等.

来源出版物: JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY 卷: 15 期: 11 特刊: SI 页: 9139-9144 出版年: NOV 2015

第 56 条，共 58 条

标题: D-Glucose hydrogenation/hydrogenolysis reactions on noble metal (Ru, Pt)/activated carbon supported catalysts

作者: Lazaridis, Polykarpos A.; Karakoulia, Stamatia; Delimitis, Andreas; 等.

来源出版物: CATALYSIS TODAY 卷: 257 页: 281-290 子辑: 2 出版年: NOV 15 2015

第 57 条，共 58 条

标题: Impacts of acidity and textural properties of oxidized carbon materials on their catalytic activity for hydrolysis of cellobiose

作者: Delidovich, Irina; Palkovits, Regina

来源出版物: MICROPOROUS AND MESOPOROUS MATERIALS 卷: 219 页: 317-321 出版年: JAN 1 2016

第 58 条，共 58 条

标题: Hydrolysis of woody biomass by a biomass-derived reusable heterogeneous catalyst

作者: Kobayashi, Hirokazu; Kaiki, Hiroyuki; Shrotri, Abhijit; 等.

来源出版物: CHEMICAL SCIENCE 卷: 7 期: 1 页: 692-696 出版年: 2016

**二、引用论文第一产权单位为国内机构**

第 1 条，共 54 条

标题: Catalytic conversion of lignocellulosic biomass to fine chemicals and fuels

作者: Zhou, Chun-Hui; Xia, Xi; Lin, Chun-Xiang; Tong, Dong-Shen ; Beltramini, Jorge

来源出版物: CHEMICAL SOCIETY REVIEWS 卷: 40 页: 5588-5617 出版年: 2011

第 2 条，共 54 条

标题: Hydrolysis of Cellulose into Glucose by Magnetic Solid Acid

作者: Lai, Da-ming; Deng, Li; Li, Jiang; Liao, Bing; Guo, Qing-Xiang; Fu, Yao

来源出版物: CHEMSUSCHEM 卷: 4 页: 55-58 出版年: 2011

第 3 条，共 54 条

标题: Dehydration of fructose into 5-hydroxymethylfurfural in acidic ionic liquids

作者: Tao, Furong; Song, Huanling; Chou, Lingjun

来源出版物: RSC ADVANCES 卷: 1 期: 4 页: 672-676 出版年: 2011

第 4 条，共 54 条

标题: Clean production of glucose from polysaccharides using a micellar heteropolyacid as a heterogeneous catalyst

作者: Cheng, Mingxing; Shi, Tian; Guan, Hongyu; 等.

来源出版物: APPLIED CATALYSIS B-ENVIRONMENTAL 卷: 107 期: 1-2 页: 104-109 出版年: AUG 31 2011

第 5 条，共 54 条

标题: Effective low-temperature hydrolysis of cellulose catalyzed by concentrated H3PW12O40 under microwave irradiation

作者: Li, Xiutao; Jiang, Yijun; Wang, Lili; 等.

来源出版物: RSC ADVANCES 卷: 2 期: 17 页: 6921-6925 出版年: 2012

第 6 条，共 54 条

标题: Polyoxometalates as efficient catalysts for transformations of cellulose into platform chemicals

作者: Deng, Weiping; Zhang, Qinghong; Wang, Ye

来源出版物: DALTON TRANSACTIONS 卷: 41 期: 33 页: 9817-9831 出版年: 2012

第 7条，共 54 条

标题: Effective saccharification of lignocellulosic biomass over hydrolysis residue derived solid acid under microwave irradiation

作者: Jiang, Yijun; Li, Xiutao; Wang, Xicheng; 等.

来源出版物: GREEN CHEMISTRY 卷: 14 期: 8 页: 2162-2167 出版年: 2012

第 8条，共 54 条

标题: One-pot depolymerization of cellulose into glucose and levulinic acid by heteropolyacid ionic liquid catalysis

作者: Sun, Zhong; Cheng, Mingxing; Li, Huacheng; 等.

来源出版物: RSC ADVANCES 卷: 2 期: 24 页: 9058-9065 出版年: 2012

第 9条，共 54 条

标题: Heterogeneous Acid-Catalyzed Hydrolysis of Cellulose

作者: Liu, Jiaxin; Huang, Yudong

来源出版物: RENEWABLE AND SUSTAINABLE ENERGY II, PTS 1-4 丛书: Advanced Materials Research 卷: 512-515 页: 421-425 出版年: 2012

第 10条，共 54 条

标题: Production of 5-Hydroxymethylfurfural from Inulin Catalyzed by Sulfonated Amorphous Carbon in an Ionic Liquid

作者: Gong Yan-Yan; Liu Min; Jia Song-Yan; 等.

来源出版物: ACTA PHYSICO-CHIMICA SINICA 卷: 28 期: 3 页: 686-692 出版年: MAR 2012

第 11条，共 54 条

标题: Selective Conversion of Cellobiose and Cellulose into Gluconic Acid in Water in the Presence of Oxygen, Catalyzed by Polyoxometalate-Supported Gold Nanoparticles

作者: An, Dongli; Ye, Aihua; Deng, Weiping; 等.

来源出版物: CHEMISTRY-A EUROPEAN JOURNAL 卷: 18 期: 10 页: 2938-2947 出版年: MAR 2012

第 12条，共 54条

标题: Development of Bifunctional Catalysts for the Conversions of Cellulose or Cellobiose into Polyols and Organic Acids in Water

作者: Deng, Weiping; Wang, Yanliang; Zhang, Qinghong; 等.

来源出版物: CATALYSIS SURVEYS FROM ASIA 卷: 16 期: 2 页: 91-105 出版年: JUN 2012

第 13 条，共 54 条

标题: Efficient synthesis and sulfonation of ordered mesoporous carbon materials

作者: Hou, Keke; Zhang, Anfeng; Gu, Lin; 等.

来源出版物: JOURNAL OF COLLOID AND INTERFACE SCIENCE 卷: 377 页: 18-26 出版年: JUL 1 2012

第 14 条，共 54 条

标题: Hydrolysis of cellulose over functionalized glucose-derived carbon catalyst in ionic liquid

作者: Guo, Haixin; Qi, Xinhua; Li, Luyang; 等.

来源出版物: BIORESOURCE TECHNOLOGY 卷: 116 页: 355-359 出版年: JUL 2012

第 15 条，共 54 条

标题:Solid acid mediated hydrolysis of biomass for producing biofuels

作者: Guo, Feng; Fang, Zhen; Xu, C. Charles; 等.

来源出版物: PROGRESS IN ENERGY AND COMBUSTION SCIENCE 卷: 38 期: 5 页: 672-690 出版年: OCT 2012

第 16 条，共 54 条

标题:Hydrolysis of cellulose to glucose at the low temperature of 423 K with CaFe2O4-based solid catalyst

作者: Zhang, Fan; Fang, Zhen

来源出版物: BIORESOURCE TECHNOLOGY 卷: 124 页: 440-445 出版年: NOV 2012

第 17 条，共 54 条

标题: Soft-template synthesis of sulfonated mesoporous carbon with high catalytic activity for biodiesel production

作者: Chang, Binbin; Fu, Jie; Tian, Yanlong; 等.

来源出版物: RSC ADVANCES 卷: 3 期: 6 页: 1987-1994 出版年: 2013

第 18 条，共 54 条

标题:Hydrolysis of cellulose to glucose by solid acid catalysts

作者: Huang, Yao-Bing; Fu, Yao

来源出版物: GREEN CHEMISTRY 卷: 15 期: 5 页: 1095-1111 出版年: 2013

第 19 条，共 54 条

标题: A new application of ionic liquids for heterogeneously catalyzed acetylation of cellulose under solvent-free conditions

作者: Zhang, Xinxing; Zhang, Wei; Tian, Dong; 等.

来源出版物: RSC ADVANCES 卷: 3 期: 21 页: 7722-7725 出版年: 2013

第 20 条，共 54 条

标题: Cellulose-derived superparamagnetic carbonaceous solid acid catalyst for cellulose hydrolysis in an ionic liquid or aqueous reaction system

作者: Guo, Haixin; Lian, Youfen; Yan, Lulu; 等.

来源出版物: GREEN CHEMISTRY 卷: 15 期: 8 页: 2167-2174 出版年: 2013

第 21 条，共 54 条

标题:Conversion of fructose into 5-hydroxymethylfurfural and alkyl levulinates catalyzed by sulfonic acid-functionalized carbon materials

作者: Liu, Ruliang; Chen, Jinzhu; Huang, Xing; 等.

来源出版物: GREEN CHEMISTRY 卷: 15 期: 10 页: 2895-2903 出版年: 2013

第 22 条，共 54 条

标题:Magnetic core-shell Fe3O4@C-SO3H nanoparticle catalyst for hydrolysis of cellulose

作者: Zhang, Changbin; Wang, Huayu; Liu, Fudong; 等.

来源出版物: CELLULOSE 卷: 20 期: 1 页: 127-134 出版年: FEB 2013

第 23 条，共 54 条

标题: Hydrolysis of hemicellulose catalyzed by hierarchical H-USY zeolites - The role of acidity and pore structure

作者: Zhou, Lipeng; Shi, Meiting; Cai, Qiyong; 等.

来源出版物: MICROPOROUS AND MESOPOROUS MATERIALS 卷: 169 页: 54-59 出版年: MAR 15 2013

第 24 条，共54 条

标题:A novel facile two-step method for producing glucose from cellulose

作者: Ni, Jinping; Wang, Hailiang; Chen, Yinying; 等.

来源出版物: BIORESOURCE TECHNOLOGY 卷: 137 页: 106-110 出版年: JUN 2013

第 25 条，共 54条

标题: Effective Hydrolysis of Cellulose into Glucose over Sulfonated Sugar-Derived Carbon in an Ionic Liquid

作者: Liu, Min; Jia, Songan; Gong, Yanyan; 等.

来源出版物: INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH 卷: 52 期: 24 页: 8167-8173 出版年: JUN 19 2013

第 26 条，共 54 条

标题: Sulfonated carbon catalyzed oxidation of aldehydes to carboxylic acids by hydrogen peroxide

作者: Zhou, Lipeng; Dong, Beibei; Tang, Si; 等.

来源出版物: JOURNAL OF ENERGY CHEMISTRY 卷: 22 期: 4 页: 659-664 出版年: JUL 2013

第 27 条，共 54 条

标题:Mild Hydrothermal Degradation of Cotton Cellulose by using a Mixed-Metal-Oxide ZnO-ZrO2 Catalyst

作者: Yang, Fang; Li, Gang; Gao, Peng; 等.

来源出版物: ENERGY TECHNOLOGY 卷: 1 期: 10 页: 581-586 出版年: OCT 2013

第 28 条，共 54 条

标题: Heterogeneous hydrolysis of cellulose into glucose over phenolic residue-derived solid acid

作者: Shen, Shuguang; Wang, Chunyan; Cai, Bei; 等.

来源出版物: FUEL 卷: 113 页: 644-649 出版年: NOV 2013

第 29 条，共54 条

标题: Hydrolysis of cellulose catalyzed by sulfonated poly(styrene-co-divinylbenzene) in the ionic liquid 1-n-butyl-3-methylimidazolium bromide

作者: Fan, Guozhi; Liao, Chongjing; Fang, Tao; 等.

来源出版物: FUEL PROCESSING TECHNOLOGY 卷: 116 页: 142-148 出版年: DEC 2013

第 30 条，共 54条

标题: Hydrolysis of cellulose in ionic liquids catalyzed by a magnetically-recoverable solid acid catalyst

作者: Xiong, Yan; Zhang, Zehui; Wang, Xin; 等.

来源出版物: CHEMICAL ENGINEERING JOURNAL 卷: 235 页: 349-355 出版年: JAN 1 2014

第 31 条，共 54条

标题:Catalytic production of isosorbide from cellulose over mesoporous niobium phosphate-based heterogeneous catalysts via a sequential process

作者: Xi, Jinxu; Zhang, Yu; Ding, Daqian; 等.

来源出版物: APPLIED CATALYSIS A-GENERAL 卷: 469 页: 108-115 出版年: JAN 17 2014

第 32 条，共 54 条

标题: Efficient hydrolyzation of cellulose in ionic liquid by novel sulfonated biomass-based catalysts

作者: Bai, Yuan-Yuan; Xiao, Ling-Ping; Sun, Run-Cang

来源出版物: CELLULOSE 卷: 21 期: 4 页: 2327-2336 出版年: AUG 2014

第 33 条，共 54 条

标题:Aqueous phase hydrogenolysis of glucose to 1,2-propanediol over copper catalysts supported by sulfated spherical carbon

作者: Liang, Dong; Liu, Chengwei; Deng, Shuping; 等.

来源出版物: CATALYSIS COMMUNICATIONS 卷: 54 页: 108-113 出版年: SEP 5 2014

第 34 条，共 54 条

标题: Catalytic transformations of cellulose and cellulose-derived carbohydrates into organic acids

作者: Deng, Weiping; Zhang, Qinghong; Wang, Ye

来源出版物: CATALYSIS TODAY 卷: 234 特刊: SI 页: 31-41 出版年: OCT 1 2014

第 35 条，共 54 条

标题:Production of Ethylene Glycol and Its Monoether Derivative from Cellulose

作者: Xi, Jinxu; Ding, Daqian; Shao, Yi; 等.

来源出版物: ACS SUSTAINABLE CHEMISTRY & ENGINEERING 卷: 2 期: 10 页: 2355-2362 出版年: OCT 2014

第 36 条，共 54 条

标题: Recent developments in the catalytic conversion of cellulose

作者: Wang, Yan; Song, Hang; Peng, Lincai; 等.

来源出版物: BIOTECHNOLOGY & BIOTECHNOLOGICAL EQUIPMENT 卷: 28 期: 6 页: 981-988 出版年: NOV 2 2014

第 37 条，共 54 条

标题: Amberlyst 15 as a new and reusable catalyst for the conversion of cellulose into cellulose acetate

作者: Fan, Guozhi; Liao, Chongjing; Fang, Tao; 等.

来源出版物: CARBOHYDRATE POLYMERS 卷: 112 页: 203-209 出版年: NOV 4 2014

第 38 条，共 54 条

标题: Sulfonated magnetic carbon nanotube arrays as effective solid acid catalysts for the hydrolyses of polysaccharides in crop stalks

作者: Liu, Ziwu; Fu, Xin; Tang, Shirong; 等.

来源出版物: CATALYSIS COMMUNICATIONS 卷: 56 页: 1-4 出版年: NOV 5 2014

第 39 条，共 54 条

标题: Recent Advances in Catalytic Conversion of Cellulose Into Variable Chemicals and Bio-Fuels

作者: Yan, Yongjie; Jiang, Guohua

来源出版物: JOURNAL OF BIOBASED MATERIALS AND BIOENERGY 卷: 8 期: 6 页: 553-569 出版年: DEC 2014

第 40 条，共 54 条

标题: Catalytic transformations of cellulose and its derived carbohydrates into 5-hydroxymethylfurfural, levulinic acid, and lactic acid

作者: Deng, Weiping; Zhang, Qinghong; Wang, Ye

来源出版物: SCIENCE CHINA-CHEMISTRY 卷: 58 期: 1 特刊: SI 页: 29-46 出版年: JAN 2015

第 41 条，共 54 条

标题:Recent advances in the catalytic production of glucose from lignocellulosic biomass

作者: Wang, Jianjian; Xi, Jinxu; Wang, Yanqin

来源出版物: GREEN CHEMISTRY 卷: 17 期: 2 页: 737-751 出版年: 2015

第 42 条，共 54 条

标题:Catalytic Valorization of Cellulose and Cellobiose with Nanoparticles

作者: Li, Hu; Zhang, Qiuyun; Riisager, Anders; 等.

来源出版物: CURRENT NANOSCIENCE 卷: 11 期: 1 页: 1-14 出版年: 2015

第 43 条，共 54 条

标题: Graphene-based catalysis for biomass conversion

作者: Zhu, Shanhui; Wang, Jianguo; Fan, Weibin

来源出版物: CATALYSIS SCIENCE & TECHNOLOGY 卷: 5 期: 8 页: 3845-3858 出版年: 2015

第 44 条，共 54 条

标题: Mesoporous carbons: recent advances in synthesis and typical applications

作者: Xin, Wang; Song, Yonghui

来源出版物: RSC ADVANCES 卷: 5 期: 101 页: 83239-83285 出版年: 2015

第 45 条，共 54 条

标题: A highly active willow-derived sulfonated carbon material with macroporous structure for production of glucose

作者: Sun, Zhong; Tao, Meilin; Zhao, Qian; 等.

来源出版物: CELLULOSE 卷: 22 期: 1 页: 675-682 出版年: FEB 2015

第 46 条，共 54 条

标题: Synthesis of 5-hydroxymethylfurfural from fructose over chromium-exchanged hydroxyapatite encapsulated gamma-Fe2O3

作者: Lan, Junfeng; Zhang, Zehui

来源出版物: JOURNAL OF INDUSTRIAL AND ENGINEERING CHEMISTRY 卷: 23 页: 200-205 出版年: MAR 25 2015

第 47 条，共 54 条

标题: Chemocatalytic hydrolysis of cellulose into glucose over solid acid catalysts

作者: Hu, Lei; Lin, Lu; Wu, Zhen; 等.

来源出版物: APPLIED CATALYSIS B-ENVIRONMENTAL 卷: 174 页: 225-243 出版年: SEP 2015

第 48 条，共 54条

标题: Selective activation of the C-O bonds in lignocellulosic biomass for the efficient production of chemicals

作者: Deng, Weiping; Zhang, Hongxi; Xue, Laiqi; 等.

来源出版物: CHINESE JOURNAL OF CATALYSIS 卷: 36 期: 9 页: 1440-1460 出版年: SEP 2015

第 49 条，共 54 条

标题: Catalytic transformation of cellulose and its derived carbohydrates into chemicals involving C-C bond cleavage

作者: Deng, Weiping; Zhang, Qinghong; Wang, Ye

来源出版物: JOURNAL OF ENERGY CHEMISTRY 卷: 24 期: 5 特刊: SI 页: 595-607 出版年: SEP 2015

第 50 条，共54 条

标题: Pretreatment by NaOH swelling and then HCl regeneration to enhance the acid hydrolysis of cellulose to glucose

作者: Sun, Binzhe; Peng, Gege; Duan, Lian; 等.

来源出版物: BIORESOURCE TECHNOLOGY 卷: 196 页: 454-458 出版年: NOV 2015

第 51 条，共 54 条

标题: Sulfonic acid catalyst based on silica foam supported copolymer for hydrolysis of cellulose

作者: Xu, Shuying; Tan, Ziting; Cai, Guorui; 等.

来源出版物: CATALYSIS COMMUNICATIONS 卷: 71 页: 56-60 出版年: NOV 5 2015

第 52 条，共 54 条

标题: Selective conversion of cellulose to hexitols over bi-functional Ru-supported sulfated zirconia and silica-zirconia catalysts

作者: Song, Zhiqiang; Wang, Hua; Niu, Yufei; 等.

来源出版物: FRONTIERS OF CHEMICAL SCIENCE AND ENGINEERING 卷: 9 期: 4 页: 461-466 出版年: DEC 2015

第 53 条，共 54 条

标题: Hydrolysis of Selected Tropical Plant Wastes Catalyzed by a Magnetic Carbonaceous Acid with Microwave

作者: Su, Tong-Chao; Fang, Zhen; Zhang, Fan; 等.

来源出版物: SCIENTIFIC REPORTS 卷: 5 文献号: 17538 出版年: DEC 9 2015

第 54 条，共 54 条

标题:Design of sulfonated mesoporous silica catalyst for fructose dehydration guided by difructose anhydride intermediate incorporated reaction network

作者: Huang, Yungtzung; Chao, Pei-Yu; Cheng, Tzu-Yu; 等.

来源出版物: CHEMICAL ENGINEERING JOURNAL 卷: 283 页: 778-788 出版年: JAN 1 2016