

Lignocellulose Conversion Enzymatic And Microbial Tools For Bioethanol Production Free Books

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ABSTRACT: Lignocellulose Represents A Key Sustainable Source Of Biomass For Transformation Into Biofuels And Bio-based Products. Unfortunately, Lignocellulosic Biomass Is Highly Recalcitrant To Biotransformation, Both Microbial And Enzymatic, Which Limits Its Use And Prevents Economic-ally Viable Conversion Into Value-added Products. As A Result, Effective Pretreatment Strategies Are Necessary ... 12th, 2020

Improving Enzymatic Conversion Of Lignocellulose To ...

Conversion Of Lignocellulose To Platform Sugars Anikó Várnai University Of Helsinki, Department Of Food And Environmental Sciences VTT Technical Research Centre Of Finland, Biotechnology Thesis For The Degree Of Doctor Of Philosophy To Be Presented With Due Permission For Public Examination And Criticism In The Auditorium 1041 In Biocentre 2 At The University Of Helsinki, On November 9th ... 9th, 2020

WOOD-PLASTIC COMPOSITES

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Fungal Enzymes For Bio-Products From Sustainable And Waste ...

Fungal Enzymes For Bio-Products From Sustainable And Waste Biomass Vijai 5 K. Gupta,1,* Christian P. Kubicek,2 Jean-Guy Berrin,3,4 David 7 W. Wilson, Marie Couturier,3,4 Alex Berlin,6 Edivaldo X.F. Filho, And Thaddeus Ezeji8 Lignocellulose, The Most Abundant Renewable Carbon Source On Earth, Is The Logical Candidate To Replace Fossil Carbon As The Major Biofuel Raw Material. Nevertheless, The ... 22th, 2020

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Fungal Treatment Of Lignocellulosic Biomass

The Lignocellulosic Biomass Is Colonized By Fungal Hyphae. Upon Colonization, The Fungi Produce Ligninolytic Enzymes To Degrade Lignin. Although Figure 1.1 Suggest A Physical Appearance Of The Hyphae In The Plant Cell Wall, Both The Hyphae And Enzymes Are Too Large To Enter The Cell Walls. To Reach The Lignocellulose 5th, 2020

Hydrolysis Of Lignocellulosic Biomass: Current Status Of ...

2. Structure Of Lignocellulose Biomass Lignocellulosic Biomass Is Typically Nonedible Plant Material, Including Dedicated Crops Of Wood And Grass, And Agro-forest Residues. Lignocellulosics Are Mainly Composed Of Cellulose, Hemicellulose, And Lignin . Cellulose Is A Homopolysaccharide Composed Of α -D-pyranose Units, Linked By α -1, 4- 11th, 2020

Lignocellulose Pretreatment In A Fungus-cultivating Termite

Energy Within Lignocellulosic Materials (2). Woody Biomass, Such As That Contained In Pine And Poplar Trees, Represents The Most Abundant Renewable Energy Resource In Our Terrestrial Ecosystems. Because Of A High Content Of Lignin, A Complex Polymer That Contains Ether- And Carbon-carbon Linkages Between Monomer-derived Units (1, 3), Biotechnological Efforts To Use This Material For ... 17th, 2020

Solid State Fermentation In Multi Well Plates To Assess ...

Solid-state Fermentation In Multi-well Plates To Assess Pretreatment Efficiency Of Rot Fungi On Lignocellulose Biomass Simeng Zhou,^{1,2} Sana Raouche,^{1,2} Sacha Grisel,^{1,2} David Navarro,^{1,2,3} Jean-Claude Sigoillot^{1,2} And Isabelle Herpoël-Gimbert^{1,2} * 1INRA, UMR 1163 Biodiversity And Biotechnology Of Fungi, F-13009 Marseille, France. 2Aix-Marseille Université, Polytech Marseille, UMR 1163 22th, 2020

Microbial Delignification And Hydrolysis Of ...

Results: Currently, Different Types Of Lignocellulose Biomass Pretreatment Technologies Are Available. All Of The Technologies Are Either In Lab Scale Or In Pilot Scale. Among The Pretreatment Technologies, Biological Pretreatments Attract Many Attentions Because Of Their Eco-friendly Advantages, Performed At A Mild Temperature And Do Not Produce Inhibitory Compounds During The Pretreatment ... 15th, 2020

Lignocellulose Biodegradation/T. Ghos

12th, 2020

Power Generation: Energy, Economic And Environmental Impacts

Keywords: Techno-economic Analysis; Life-cycle Assessments; Power Generation; Lignocellulose; Energy Analysis 1. Introduction Climate Models From The Intergovernmental Panel On Climate Change (IPCC) Have Predicted That The Global Surface Temperature Will Increase Between 0.3 C And 4.8 C In The 21st Century [1]. 19th, 2020

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Lignocellulose Biodegradation: Fundamentals And Applications S. Malherbe & T.E. Cloete 1. Introduction Natural Pastures Are One Of South Africa's Most Important Agricultural Resources For It Provides The Cheapest Source Of Animal Feed (Aucamp & Danckwerts 1989). Natural Grazing Is Threatened By Expansion Of The Karoo (semi-desert Region) Into Grasslands, Overgrazing, Poisonous Plants, Poor 8th, 2020

Lignocellulose Biodegradation: Fundamentals And Applications

Lignocellulose Biodegradation: Fundamentals And Applications S. Malherbe & T.E. Cloete ? Department Of Microbiology And Plant Pathology, Faculty Of Natural And Agricultural Sciences, University Of 24th, 2020

Chemistry Of Lignocellulose: Methods Of Analysis And ...

Animal Feed Science And Technology, 21 (1988) 279-286 279 Elsevier Science Publishers B.V., Amsterdam -- Printed In The Netherlands Chemistry Of Lignocellulose: Methods Of Analysis And Consequences Of Structure FRANKLIN E. BARTON, II Richard B. Russell Agricultural Research Center, ARS-USDA, P.O. Box 5677, Athens, GA 30613 (U.S.A.) ABSTRACT Barton, F.E., II, 1988. Chemistry Of Lignocellulose ... 3th, 2020

Ionic Liquidâ Mediated Selective Extraction Of Lignin From ...

ABSTRACT: Lignocellulose Represents A Key Sustainable Source Of Biomass For Transformation Into Biofuels And Bio-based Products. Unfortunately, Lignocellulosic Biomass Is Highly Recalcitrant To Biotransformation, Both Microbial And Enzymatic, Which Limits Its Use And Prevents Economic-ally Viable Conversion Into Value-added Products. As A Result, Effective Pretreatment Strategies Are Necessary ... 21th, 2020

RADIATION PRETREATMENT OF BIOMASS

Break The Surface Of Lignocellulose Or To The Conversion Of Glucose To Other By-products, As Earlier Reported By Yang Et Al Was Due To Increased By-products Which Can Act As Inhibitors For The Enzy-matic Hydrolysis Of Cellulose. The Effect Of The Granularity Of Biomass Wheat Straw On Radiation Pretreatment Was Also Examined By Yang Et Al. [23]. Powder Fractions Of 1 Cm, 20, 60, 100, 140 ... 21th, 2020

ENZYME-BASED HYDROLYSIS PROCESSES FOR ETHANOL FROM ...

Of Dilute Acid Hydrolysis Is Achieving High Xylan To Xylose Conversion Yields, Which Is Necessary To Achieve Favorable Overall Process Economics In Ethanol Production From Lignocellulose (Sun And Cheng 2002). On The Other Hand, A Main Disadvantage Of This Pretreatment Method Is The Necessity Of Neutralization Of PH For The Downstream 18th, 2020

La Lignocellulose Source De Biocarburant De Seconde Génération

La Lignocellulose Source De Biocarburant De Seconde Génération BENDAOU
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Dans Les Milieux Arides Et Semi Arides -URAER E-mail : Bendaoud_naima@uraer.dz
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Biocarburants De Deuxième Génération Issus Des Ressources ... 3th, 2020

Hydrothermal Pretreatment Of Lignocellulosic Biomass And ...

Timate Association With Lignin [6]. To Increase The Enzy- Matic Digestibility Of
Lignocellulosic Biomass, Biomass Has To Be Treated/degraded Mechanically Or
Chemically. Hydrolysis Of Lignocellulose Without Any Pretreatment Tends To
Achieve Low Efficiencies [7] Due To Structural Properties, Such As Lignin Content,
Acetylated Hemicellu- 14th, 2020

Biotechnology For Biofuels BioMed Central

Lignocellulose Jan B Kristensen^{1,2}, Claus Felby¹ And Henning Jørgensen*¹ Address:
1Forest And Landscape Denmark, University Of Copenhagen, Rolighedsvej 23,
DK-1958 Frederiksberg, Denmark And 2Novozymes A/S, Krogshøjvej 36, DK-2880
Bagsværd, Denmark Email: Jan B Kristensen - JBhK@novozymes.com; Claus Fel By -
Cf@life.ku.dk; Henning Jørgensen* - Hnj@life.ku.dk * Corresponding Author Abstract
... 18th, 2020

Bio-based Building Blocks And Polymers In The World

Teraphtalic Acid PBT PBS PET PE PU PU PA Polyols PU PP PU PC PVC PTT PLA HMF
PHA FDCA PHA PA PBAT PMMA EPDM HMDA Caprolactam Adipic Acid 3-HP PET-like
Lactic Acid Sorbitol Ethanol Lignocellulose Atural Rubber Plant Oils Fructose Natural
Rubber Starch-based Polymers Lignin-based Polymers Cellulose-based Polymers
Glucose Lysine PU MEG 1,4 Butanediol Diacids (Sebacic Acid) Bio-based Building ...
18th, 2020

L AUTOMOBILE ET LE RESPECT DE L ENVIRONNEMENT

Les Biocarburants De Seconde Génération Sont Censés Remédier, à L'avenir, Au
Problème D'utilisation De Terres Agricoles Destinées à L'alimentaire. Ils Sont
Fabriqués à Partir De Lignocellulose Contenus Dans Le Bois (résidus Forestiers),
Dans La Paille (résidus Agricoles), Ou Dans Des Plantes De Cultures Dédiées. Les
Biocarburants De Troisième Génération, Ou Algotcarburant 1th, 2020

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Red Watermelon 2016 Monthly Plannerpdf,Lignocellulose Biotechnology Techniques
And Applications Hardcover 2007 By R C Kuhad,Unofficial Markscheme June 2014
Maths Edexcel,Harley Davidson 2008 Sportster 883 Manual,Citroen Xantia 1600 ...
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Anharmonic Effects In The Thermodynamic Properties Of ...

Anharmonic Effects In The Thermodynamic Properties Of Solids II. Analysis Of Data

For Lead And Aluminium A J Leadbetter-Anharmonic Effects In The Thermodynamic Properties Of Solids III. A Liquid Gallium Immersion Dilatometer For The Range 50-700 °C: Thermal Expansivities Of Hg, Ga, NaCl And KCl A J Leadbetter And D M T Newsham-Recent Citations Thermophysical Properties Of Lignocellulose: A ... 6th, 2020

Biogas Production From Lignocellulosic Materials

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Title: Center For Advanced Bioenergy And Bioproducts ...

Title: Center For Advanced Bioenergy And Bioproducts Innovation - CABBI Evan H. DeLucia1* ... This Plants-as-factories Approach Represents Value Added To Efforts Of Developing Efficient Lignocellulose Deconstruction Methods, While Retaining Residual Biomass For Deconstruction By Traditional Or Emerging Methods. CABBI Will Focus On Sorghum, Energycane, And Miscanthus, Which Are High-yielding ... 10th, 2020

The University Of Southern Mississippi The Aquila Digital ...

Lignocellulose Is The Most Abundant Biomass On Earth, And Its Degradation Has Significant Impacts On Agriculture, Biofuel Development, And The Environment (Field . Et Al. 1998; Falkowski 2000; Lynd . Et Al. 2002). In The Environment, More Than 100 Billion Tons Of Plant Biomass (carbon) Are Produced Each Year Through Photosynthesis, And Eventually Those Materials Are Mineralized By Microbes ... 12th, 2020

Curriculum Vitae - Aradhana Srivastava ARADHANA SRIVASTAVA ...

Curriculum Vitae - Aradhana Srivastava 3 Of 9 INTERNATIONAL PUBLICATIONS IN JOURNAL 1. Anjali Madhavan, Aradhana Srivastava, Akihiko Kondo, And Virendra S. Bisaria, 2012, Bioconversion Of Lignocellulose-Derived Sugars To Ethanol By Engineered Saccharomyces Cerevisiae, Critical Review In Biotechnology, 01(32); 22-48. Citation Index 44, Impact Factor 7.837 15th, 2020

The Potential Use Of Rice Waste Lignocellulose And Its ...

The Genus Pleurotus Comprises Of Edible Lignolytic Mushrooms Capable Of Selective Delignification Of Lignocellulosic Farm Residues4,5,6,7, As A Result Of Which The Cellulose Is Exposed And Can Be ... 3th, 2020

Lignocellulose Biodegradation: An Advance Technology For ...

Lignocellulose Biodegradation: An Advance Technology For Sustainable Environment Archit Sharma, Rajesh Kumar, Meenu Rathi, Divya Bhatia And Deepak Kumar Malik* Department Of Biotechnology, U.I.E.T, Kurukshetra University

Kurukshetra G. M. N College Ambala Cantt, Haryana, India ABSTRACT The Ever Increasing Energy Load Has Attracted Signifi Cant Attention On The Development And Growth Of ... 21th, 2020

5 Biodegradation Of Lignin - Wiley-VCH

Lignocellulose(Hall,1980).Theinvolvement Of Hydroxyl Radicals And Singlet Oxygen Was Discounted Later (Kirk And Farrell, 1987). A Breakthrough In The Enzymology Of Lignin Biodegradation Occurred In 1983- 1984 When The First Extracellular Enzymes Involved In The Degradation Of Lignin Were Discovered (Tien And Kirk, 1983; Glenn Et Al., 1983; Kuwahara Et Al., 1984). Since That Large Amounts Of ... 5th, 2020

Anaerobic Biodegradation Of Polysaccharide Components ...

ANAEROBIC BIODEGRADATION OF LIGNIN 999 Tant Decomposers Of Lignin And Lignocellulose In Terrestrial Environments, Indicate That Lignin Degradation By These Organisms Is Highly Oxidative And May Involve Chemical Oxidants Such As Singlet Oxygen And Hydroxyl Radicals (10, 11, 14). However, Several Investigators Have Demonstrated The Anaerobic Degradation To Methane And Carbon Dioxide Of 2th, 2020

Microbial Degradation Of Lignocellulose: The Lignin Component

MICROBIAL DEGRADATION OF LIGNOCELLULOSE 715 Liquid Scintillation Counting (LSC) Techniques. The Instruments Used Were A Nuclear-Chicago MarkII LSC System And A Beckman Model LS-200B Spec- Trometer. Two Counting/trapping Fluids Were Uti- Lized For Trapping And Quantifying $^{14}\text{CO}_2$. The First Contained In Each 130 MI Of Toluene: PPO (2,5-di- Phenyloxazole), 3.0g; POPOP[1,4-bis-(5-phenyloxa- 6th, 2020

Effects Of PH And Plant Source On Lignocellulose ...

Effects Of PH And Plant Source On Lignocellulose Biodegradation Rates In Two Wetland Ecosystems, The Okefenokee Swamp And A Georgia Salt Marsh1y2y3 Ronald Benner, Mary Ann Moran, And Robert E. Hodson Department Of Microbiology And Institute Of Ecology, University Of Georgia, Athens 30602 Abstract The Microbial Mineralization Of Synthetic [^{14}C]lignin, Specifically Radiolabeled [^{14}C -lignin] ... 8th, 2020

LIGNOCELLULOSE - Content.kopykitab.com

Lignocellulose Biotechnology: Future Prospects, Discusses A Wide Range Of Topics Related To The Fundamental And Applied Aspects Of Lignocellulose Utilization, Processing And Biotechnology. The Book Contains A Range Of Topics Including Biodiversity Of Lignocellulolytic Microorganisms And Their Enzymes, Molecular Biology Relevant To Biodegradation, Characterization Of Lignocellulolytic Enzymes ... 7th, 2020

ABSTRACT MATHEWS, STEPHANIE LAMBETH. Biodegradation And ...

Lignocellulose Is The Most Abundant Renewable Carbon Source. It Makes Up The

Cell Wall Of Plants And Contains Cellulose, Hemicellulose, And Lignin. The Paper And Pulp Mill Industry Uses Wood, A Lignocellulosic Material, As The Feedstock For The Production Of Paper. This Process Requires Separation Of The Secondary Plant Cell Wall Components And Produces Solid Fibers Primarily Composed Of ... 12th, 2020

PEER-REVIEWED ARTICLE Lignocellulose

Chemical Modification Technique Has Been Used To Enhance Some Properties Especially Dimensional Stability (Rowell, 1975). This Process Increases The Bulk Density Of Wood (Sander Et Al., 2003), And Makes It Hydrophobic Toward Moisture Which Is Necessary For Biodeterioration (Takahashi 1996; Mohebbi And Militz 2002; Brield And Westin 2007; Mohebbi 2003) And Dimensional Changes (Youngquist Et Al ... 2th, 2020

Pyrolysis Gasification Of Biomass - BioSynergy

Pyrolysis And Gasification Of Biomass Tony Bridgwater Bioenergy Research Group Aston University, Birmingham B4 7ET, UK. Biomass, Conversion And Products Ethanol; Butanol; Chemicals Biodiesel (FAME,RME); Chemicals Synthetic H/c; Alcohols; Chemicals; Power; Heat Oil Plants Biological Conversion Thermal Conversion Esterification Residues Residues Starch & Sugars 1°G 2°G 1°G Lignocellulose ... 5th, 2020

Green Chemistry - Semantic Scholar

In This Report, We Describe The Fundamental Chemistry Of The Fractionation Process In Detail, And Establish 'water-soluble Lignocellulose' As A Highly Promising Feedstock For The Production Of Sugars And Sulfur-free Lignins, Compared With "regular" Water-insoluble Lignocellulose. This Paper Is Structured As Follows. 9th, 2020

Pembuatan Dan Karakterisasi Selulosa Dari Limbah Serbuk ...

1,2,3,4Institut Teknologi Kalimantan, Balikpapan, Indonesia *Email: Gusti.unt@itk.ac.id Abstract Meranti (Shorea Macrobalanos) Is A Typical Wood From Kalimantan That Is Still Valued As A Raw Material Of Furniture Production. According To Statistical Data, Meranti Sawdust Waste Reached 44% And Has Not Been Widely Used. It Is Known That Meranti Has A High Lignocellulose Content, Which Are 38.18% ... 11th, 2020

APPENDIX C: BIOFUELS AND BIO-BASED CHEMICALS (BACKGROUND)

The Development And Implementation Of New Lignocellulose Conversion And Biorefinery Technologies Could Enable A Range Of New Biofuel And Bio-based Chemical Products That Are Fully Cost Competitive (without Government Subsidies) With Conventional Petroleum- Based Fuels And Products—especially If Crude Oil Prices Remain Above About \$50 Per Barrel—beginning In The 2010 To 2015 Timeframe ... 1th, 2020

PEER-REVIEWED ARTICLE Lignocellulose

PEER-REVIEWED ARTICLE Lignocellulose Singh Et Al. (2012). "Pycnoporou

Sanguineus Biodegradation," Lignocellulose 1(3), 210-227.210 BIODEGRADATION STUDY OF PYCNOPORUS SANGUINEUS AND ITS EFFECTS ON STRUCTURAL AND CHEMICAL FEATURES ON OIL PALM BIOMASS CHIPS. 1th, 2020

Lignocellulose Conversion: An Introduction To Chemistry ...

An Introduction To Chemistry, Process And Economics Jean-Paul Lange, Shell Global Solutions, The Netherlands Received 19 March 2007; Revised Version Received 29 May 2007; Accepted 29 May 2007 Published Online 18 July 2007 In Wiley InterScience (www.interscience.wiley.com); DOI: 10.1002/bbb.7; Biofuels, Bioprod. Bioref. 1:39-48 (2007) Abstract: Governments Across The World Are Stimulating The ... 11th, 2020

A Sustainable Wood Biorefinery For Low Carbon Footprint ...

From Lignin. We Also Demonstrate Appl Ication And Value Prop-osition Of The Phenolic Oligomers. The First Step Of Our Approach Rests On A Specific Type Of Lignin-first Biorefining, Termed Reductive Catalytic Fractiona-tion (RCF). (12-16) RCF Of Lignocellulose Yields Solid . A Sustainable Wood Biorefinery For Low-carbon Footprint Chemicals ... 22th, 2020

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NITRATE REMOVAL BY MODIFIED LIGNOCELLULOSE

Effect Of PH On Nitrate Sorption. Initially 30 Mg N/l. Resin Dose 3 G/l. 0 2 4 6 8 10 0 20 40 60 80 100 NO 3 N [%] Initial PH Mod. Pine Sawdust Mod. Birch Bark Mod. Spruce Bark Mod. Peat Mod. Pine ... 12th, 2020

NITRATE REMOVAL BY MODIFIED LIGNOCELLULOSE

NITRATE REMOVAL 1 BY MODIFIED LIGNOCELLULOSE M.Sc. (Tech.) Anni Keränen, Dr. Tiina Leiviskä, ... 3-N Concentration [mg/l] Mod. Pine Sawdust Mod. Pine Bark Mod. Birch Bark Mod. Spruce Bark Mod. Peat Amberjet 4200 Cl. RESULTS SYNTHETICSOLUTIONS—NITRATE • Wide Temperature Range For Mod. Pine Sawdust: 5—70°C Applicable For Both Cold Mining Ww And Warm Industrial Ww 9 25 30-N Sorption ... 6th, 2020

Catalytic Transformation Of Biomass Derivatives To Value ...

Biomass Conversion Methods The Majority Of Biomass Sources Consists Of Complex Polymeric Structures (e. G., Polysaccharides And Lignin) And Need To Be Depolymerized Or Deconstructed In Order To Be Further Processed And Used As Chemicals Or Fuels. Many Reviews Described Different Chemical Routes For The Conversion Of Biomass (e. G., Lignocellulose, Triglycerides And Terpenes) To-wards Value ... 5th, 2020

Lignocellulose Biotechnology: Issues Of Bioconversion And ...

Aspects Of Lignocellulose Biotechnology With Emphasis On Demonstrating The Potential Value From An Application Rather Than Basic Research Perspective. Aspects Which Will Be Reviewed In This Article Include: An Overview Of Some Of The Major Potential Lignocellulose Derived High-value Bioproducts; Solid State Fermentation Processing As A Relevant, Initial Approach To Lignocellulose Bioconversion ... 18th, 2020

Plant Biotechnology For Lignocellulosic Biofuel Production

Keywords: Biofuel, Biotechnology, Cell Wall, Lignocellulose. Summary Lignocelluloses From Plant Cell Walls Are Attractive Resources For Sustainable Biofuel Production. However, Conversion Of Lignocellulose To Biofuel Is More Expensive Than Other Current Technologies, Due To The Costs Of Chemical Pretreatment And Enzyme Hydrolysis For Cell Wall Deconstruction. Recalcitrance Of Cell Walls To ... 4th, 2020

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Energy Biotechnology: Beyond The General Lignocellulose-to-ethanol Pathway Editorial Overview Largus T Angenent Current Opinion In Biotechnology 2007, 2th, 2020

Fractionating Recalcitrant Lignocellulose At Modest ...

Fractionating Recalcitrant Lignocellulose At Modest Reaction Conditions Yi-Heng Percival Zhang,¹ Shi-You Ding,² Jonathan R. Mielenz,³ Jing-Biao Cui,⁴ Richard T. Elander,⁵ Mark Laser,⁵ Michael E. Himmel,² James R. McMillan,² Lee R. Lynd⁵
¹Biological Systems Engineering Department, Virginia Tech, Blacksburg, Virginia 24061; Telephone: (540) 231-7414; Fax: (540) 231-3199; E-mail: Ypzhang@vt.edu ... 25th, 2020

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