

证书号第 4765496 号



发明专利证书

发明名称：一种聚酯弹性体薄膜及其制备方法

发明人：孟繁蓉;张玉苍;孔凡功

专利号：ZL 2019 1 1343835.6

专利申请日：2019 年 12 月 24 日

专利权人：齐鲁工业大学

地址：250399 山东省济南市长清区大学路 3501 号

授权公告日：2021 年 11 月 02 日

授权公告号：CN 111019331 B

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证书号 第4765496号



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申请日时本专利记载的申请人、发明人信息如下：

申请人：

齐鲁工业大学

发明人：

孟繁蓉；张玉苍；孔凡功

证书号第 4768782 号



发明专利证书

发明名称：一种生物基聚酯型聚氨酯薄膜及其制备方法

发明人：孟繁蓉;张玉苍;孔凡功

专利号：ZL 2019 1 1344506.3

专利申请日：2019 年 12 月 24 日

专利权人：齐鲁工业大学

地址：250399 山东省济南市长清区大学路 3501 号

授权公告日：2021 年 11 月 02 日

授权公告号：CN 111040419 B

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申请人：

齐鲁工业大学

发明人：

孟繁蓉；张玉苍；孔凡功

证书号第 4329658 号



发明专利证书

发明名称：一种木素/树脂超疏水绝缘耐腐蚀涂料的制备方法

发明人：王守娟;孙浩东;孔凡功

专利号：ZL 2019 1 0547026.0

专利申请日：2019 年 06 月 24 日

专利权人：齐鲁工业大学

地址：250353 山东省济南市长清区大学路 3501 号

授权公告日：2021 年 03 月 30 日

授权公告号：CN 110272682 B

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申请日时本专利记载的申请人、发明人信息如下：

申请人：

齐鲁工业大学

发明人：

王守娟；孙浩东；孔凡功

证书号第4473522号



发明专利证书

发明名称：一种具有油水分离功能的超疏水木素海绵的制备方法

发明人：王守娟;孙浩东;孔凡功

专利号：ZL 2019 1 0547054.2

专利申请日：2019年06月24日

专利权人：齐鲁工业大学

地址：250353 山东省济南市长清区大学路3501号

授权公告日：2021年06月08日

授权公告号：CN 110227283 B

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证书号 第 4473522 号



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申请日时本专利记载的申请人、发明人信息如下：

申请人：

齐鲁工业大学

发明人：

王守娟, 孙浩东, 孔凡功

证书号第4718636号



发明专利证书

发明名称：一种纤维浆料制备纳米纤维素的方法

发明人：王文波;孔凡功;王守娟;朱子锐

专利号：ZL 2019 1 0949689.5

专利申请日：2019年10月08日

专利权人：齐鲁工业大学

地址：250353 山东省济南市长清区大学路3501号

授权公告日：2021年10月01日

授权公告号：CN 110656526 B

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证书号第4718636号



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申请人：

齐鲁工业大学

发明人：

王文波；孔凡功；王守娟；朱子锐

证书号第 4770917 号



发明专利证书

发明名称：一种木素-壳聚糖基无氟高强度超疏水纸的制备方法

发明人：王守娟;孙浩东;孔凡功

专利号：ZL 2019 1 0547030.7

专利申请日：2019 年 06 月 24 日

专利权人：齐鲁工业大学

地址：250353 山东省济南市长清区大学路 3501 号

授权公告日：2021 年 11 月 02 日

授权公告号：CN 110241648 B

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申请人：

齐鲁工业大学

发明人：

王守娟; 孙浩东; 孔凡功

证书号第 4446567 号



发明专利证书

发明名称：一种以阔叶木板皮为原料制备半化学浆的方法

发明人：刘忠明;孔凡功;王守娟;赵鑫;夏南南

专利号：ZL 2018 1 0030095. X

专利申请日：2018 年 01 月 12 日

专利权人：齐鲁工业大学

地址：250399 山东省济南市长清区大学路 3501 号

授权公告日：2021 年 05 月 28 日

授权公告号：CN 108221470 B

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申请人：

齐鲁工业大学

发明人：

刘忠明；孔凡功；王守娟；赵鑫；夏南南

证书号第 3785634 号



发明专利证书

发明名称：一种纤维素改性制备茶多酚吸附材料的方法

发明人：孔凡功;夏南南;吴芹;王守娟;刘忠明;傅成龙

专利号：ZL 2017 1 0702658.0

专利申请日：2017 年 08 月 16 日

专利权人：齐鲁工业大学

地址：250353 山东省济南市长清区大学路 3501 号齐鲁工业大学

授权公告日：2020 年 05 月 05 日

授权公告号：CN 107321322 B

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证书号 第 3785634 号



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申请日时本专利记载的申请人、发明人信息如下：

申请人：

齐鲁工业大学

发明人：

孔凡功；夏南南；吴芹；王守娟；刘忠明；傅成龙

证书号第 3796843 号



发明专利证书

发明名称：一种木素基金属保护涂料及其制备方法

发明人：夏南南；孔凡功；吴芹；王守娟；孙浩东；许仃仃；赵鑫
陈洪雷

专利号：ZL 2017 1 1443343.5

专利申请日：2017 年 12 月 27 日

专利权人：齐鲁工业大学

地址：250353 山东省济南市长清区大学路 3501 号齐鲁工业大学

授权公告日：2020 年 05 月 15 日

授权公告号：CN 108003792 B

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证书号第 3796843 号



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申请人：

齐鲁工业大学

发明人：

夏南南；孔凡功；吴芹；王守娟；孙浩东；许竹竹；赵鑫；陈洪雷

证书号第 3814599 号



发明专利证书

发明名称：一种具有吸脱附硼酸功能的滤纸及其制备方法

发明人：夏南南;孔凡功;王守娟;孙浩东;吴芹;高超;房路路

专利号：ZL 2017 1 1027182.1

专利申请日：2017 年 10 月 27 日

专利权人：齐鲁工业大学

地址：250353 山东省济南市长清区大学路 3501 号齐鲁工业大学

授权公告日：2020 年 05 月 26 日

授权公告号：CN 107574721 B

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申请日时本专利记载的申请人、发明人信息如下：

申请人：

齐鲁工业大学

发明人：

夏南南；孔凡功；王守娟；孙浩东；吴芹；高超；房路路

证书号第 3923507 号



发明专利证书

发明名称：耐强碱清洁制浆助剂及其应用工艺

发明人：孔凡功;吴芹;陈洪雷;王守娟;刘忠明;杨桂花

专利号：ZL 2017 1 1290437.3

专利申请日：2017 年 12 月 08 日

专利权人：齐鲁工业大学

地址：250353 山东省济南市长清区大学路 3501 号

授权公告日：2020 年 08 月 04 日

授权公告号：CN 108130806 B

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证书号第 3443586 号



发 明 专 利 证 书

发 明 名 称：金属修饰的超疏水材料及其制备方法

发 明 人：赵鑫;孔凡功;王守娟;陈洪雷;吴芹

专 利 号：ZL 2017 1 0054578.9

专利申请日：2017 年 01 月 24 日

专 利 权 人：齐鲁工业大学

地 址：250353 山东省济南市长清区大学路 3501 号齐鲁工业大学
造纸与植物资源工程学院

授权公告日：2019 年 07 月 05 日 授权公告号：CN 106835083 B

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申请人：

齐鲁工业大学

发明人：

赵鑫；孔凡功；王守娟；陈洪雷；吴芹

证书号第 3289922 号



发明专利证书

发明名称：化学镀制备 Au-Pt 合金纳米管的方法

发明人：赵鑫;孔凡功;王守娟;陈洪雷;刘玉

专利号：ZL 2017 1 0129086.1

专利申请日：2017 年 03 月 06 日

专利权人：齐鲁工业大学

地址：250353 山东省济南市长清区大学路 3501 号齐鲁工业大学
造纸与植物资源工程学院

授权公告日：2019 年 03 月 12 日

授权公告号：CN 106917079 B

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证书号第 3289922 号



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申请人：

齐鲁工业大学

发明人：

赵鑫；孔凡功；王守娟；陈洪雷；刘玉

证书号第 3339887 号



发明专利证书

发明名称：一种环保清洁制浆工艺

发明人：孔凡功；夏南南；王守娟；杨桂花；赵鑫；刘忠明

专利号：ZL 2017 1 1290350.6

专利申请日：2017 年 12 月 08 日

专利权人：齐鲁工业大学

地址：250353 山东省济南市长清区大学路 3501 号

授权公告日：2019 年 04 月 19 日

授权公告号：CN 108049229 B

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证书号第4028537号



发明专利证书

发明名称：玉米秸秆和麦草混合原料的半化学浆清洁制浆工艺

发明人：孔凡功;赵鑫;王守娟;吴芹;夏南南;陈嘉川;刘玉

专利号：ZL 2017 1 1398841.2

专利申请日：2017年12月22日

专利权人：齐鲁工业大学

地址：250353 山东省济南市长清区大学路3501号

授权公告日：2020年10月13日

授权公告号：CN 108149504 B

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证书号第 3785634 号



发明专利证书

发明名称：一种纤维素改性制备茶多酚吸附材料的方法

发明人：孔凡功;夏南南;吴芹;王守娟;刘忠明;傅成龙

专利号：ZL 2017 1 0702658.0

专利申请日：2017 年 08 月 16 日

专利权人：齐鲁工业大学

地址：250353 山东省济南市长清区大学路 3501 号齐鲁工业大学

授权公告日：2020 年 05 月 05 日

授权公告号：CN 107321322 B

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申请人：

齐鲁工业大学

发明人：

孔凡功；夏南南；吴芹；王守娟；刘忠明；傅成龙



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CERTIFICATE OF GRANT INNOVATION PATENT

Patent number: 2020101861

The Commissioner of Patents has granted the above patent on 9 September 2020, and certifies that the below particulars have been registered in the Register of Patents.

Name and address of patentee(s):

Qilu University of Technology of No. 3501, Daxue Road, Changqing District Jinan Shandong Province 250353
China

Title of invention:

BACTERIAL CELLULOSE-POLY(ETHYLENE OXIDE)-POLY(PROPYLENE OXIDE)-POLY(ETHYLENE OXIDE)
BLOCK COPOLYMER COMPOSITE MEMBRANE AND MANUFACTURING METHOD THEREOF

Name of inventor(s):

Chen, Honglei; Zhao, Xin; Liu, Yu; Kong, Fangong and Zhang, Yujie

Term of Patent:

Eight years from 17 August 2020

NOTE: This Innovation Patent cannot be enforced unless and until it has been examined by the Commissioner of Patents and a Certificate of Examination has been issued. See sections 120(1A) and 129A of the Patents Act 1990, set out on the reverse of this document.

Priority details:

Number	Date	Filed with
201911225744.2	4 December 2019	CN



Dated this 9th day of September 2020

Commissioner of Patents

PATENTS ACT 1990

The Australian Patents Register is the official record and should be referred to for the full details pertaining to this IP Right.

Extracts from the Patents Act, 1990

Sect 120(1A) Infringement proceedings in respect of an innovation patent cannot be started unless the patent has been certified.

Sec 128 **Application for relief from unjustified threats**

- (1) Where a person, by means of circulars, advertisements or otherwise, threatens a person with infringement proceedings or other similar proceedings a person aggrieved may apply to a prescribed court, or to another court having jurisdiction to hear and determine the application, for:
- (a) a declaration that the threats are unjustifiable; and
 - (b) an injunction against the continuance of the threats; and
 - (c) the recovery of any damages sustained by the applicant as a result of the threats.
- (2) Subsection (1) applies whether or not the person who made the threats is entitled to, or interested in, the patent or a patent application.

Sec 129A **Threats related to an innovation patent application or innovation patent and courts power to grant relief.**

Certain threats of infringement proceedings are always unjustifiable.

- (1) If:
- (a) a person:
 - (i) has applied for an innovation patent, but the application has not been determined; or
 - (ii) has an innovation patent that has not been certified; and
 - (b) the person, by means of circulars, advertisements or otherwise, threatens a person with infringement proceedings or other similar proceedings in respect of the patent applied for, or the patent, as the case may be; then, for the purposes of an application for relief under section 128 by the person threatened, the threats are unjustifiable.

Courts power to grant relief in respect of threats made by the applicant for an innovation patent or the patentee of an uncertified innovation patent

- (2) If an application under section 128 for relief relates to threats made in respect of an innovation patent that has not been certified or an application for an innovation patent, the court may grant the application the relief applied for.

Courts power to grant relief in respect of threats made by the patentee of certified innovation patent

- (3) If an application under section 128 for relief relates to threats made in respect of a certified innovation patent, the court may grant the applicant the relief applied for unless the respondent satisfies the court that the acts about which the threats were made infringed, or would infringe, a claim that is not shown by the applicant to be invalid.

Schedule 1 **Dictionary**

certified, in respect of an innovation patent other than in section 19, means a certificate of examination issued by the Commissioner under paragraph 101E(e) in respect of the patent

证书号第 3261147 号



发明专利证书

发明名称：一种用于超级电容器的新型杂化纤维炭纸的制备方法

发明人：孔凡功;赵鑫;陈洪雷;王守娟

专利号：ZL 2017 1 0404665.2

专利申请日：2017 年 06 月 01 日

专利权人：齐鲁工业大学

地址：250353 山东省济南市长清区大学路 3501 号齐鲁工业大学
造纸与植物资源工程学院

授权公告日：2019 年 02 月 19 日

授权公告号：CN 107217523 B

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CERTIFICATE OF GRANT INNOVATION PATENT

Patent number: 2020101806

The Commissioner of Patents has granted the above patent on 2 September 2020, and certifies that the below particulars have been registered in the Register of Patents.

Name and address of patentee(s):

Qilu University of Technology of No. 3501, Daxue Road, Changqing District Jinan City Shandong China

Title of invention:

SOLID-STATE TEMPERATURE CONTROL MATERIAL AND PREPARATION METHOD THEREOF

Name of inventor(s):

Dong, Xiaobin; Wang, Shoujuan; Kong, Fangong; Meng, Xia; Qi, Letian and Zhao, Ruhe

Term of Patent:

Eight years from 13 August 2020

NOTE: This Innovation Patent cannot be enforced unless and until it has been examined by the Commissioner of Patents and a Certificate of Examination has been issued. See sections 120(1A) and 129A of the Patents Act 1990, set out on the reverse of this document.

Priority details:

Number

202010153745.7

Date

7 March 2020

Filed with

CN



Dated this 2nd day of September 2020

Commissioner of Patents

PATENTS ACT 1990

The Australian Patents Register is the official record and should be referred to for the full details pertaining to this IP Right.

Sect 120(1A) Infringement proceedings in respect of an innovation patent cannot be started unless the patent has been certified.

- (1) Where a person, by means of circulars, advertisements or otherwise, threatens a person with infringement proceedings or other similar proceedings a person aggrieved may apply to a prescribed court, or to another court having jurisdiction to hear and determine the application, for:
 - (a) a declaration that the threats are unjustifiable; and
 - (b) an injunction against the continuance of the threats; and
 - (c) the recovery of any damages sustained by the applicant as a result of the threats.
- (2) Subsection (1) applies whether or not the person who made the threats is entitled to, or interested in, the patent or a patent application.

Certain threats of infringement proceedings are always unjustifiable.

- (1) If:
- (a) a person:
 - (i) has applied for an innovation patent, but the application has not been determined; or
 - (ii) has an innovation patent that has not been certified; and
 - (b) the person, by means of circulars, advertisements or otherwise, threatens a person with infringement proceedings or other similar proceedings in respect of the patent applied for, or the patent, as the case may be;
- then, for the purposes of an application for relief under section 128 by the person threatened, the threats are unjustifiable.

(2) If an application under section 128 for relief relates to threats made in respect of an innovation patent that has not been certified or an application for an innovation patent, the court may grant the application the relief applied for.

(3) If an application under section 128 for relief relates to threats made in respect of a certified innovation patent, the court may grant the applicant the relief applied for unless the respondent satisfies the court that the acts about which the threats were made infringed, or would infringe, a claim that is not shown by the applicant to be invalid.

certified, in respect of an innovation patent other than in section 19, means a certificate of examination issued by the Commissioner under paragraph 101E(e) in respect of the patent



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CERTIFICATE OF GRANT INNOVATION PATENT

Patent number: 2020101036

The Commissioner of Patents has granted the above patent on 8 July 2020, and certifies that the below particulars have been registered in the Register of Patents.

Name and address of patentee(s):

Qilu University of Technology of No.3501, Daxue Road, Changqing District Jinan Shandong Province 250353 China

Title of invention:

PREPARATION METHOD OF SUPER-HYDROPHOBIC LIGNIN SPONGE WITH OIL-WATER SEPARATION FUNCTION

Name of inventor(s):

WANG, Shoujuan; SUN, Haodong and KONG, Fangong

Term of Patent:

Eight years from 18 June 2020

NOTE: This Innovation Patent cannot be enforced unless and until it has been examined by the Commissioner of Patents and a Certificate of Examination has been issued. See sections 120(1A) and 129A of the Patents Act 1990, set out on the reverse of this document.

Priority details:

Number	Date	Filed with
201910547054. 2	24 June 2019	CN



Dated this 8th day of July 2020

Commissioner of Patents

PATENTS ACT 1990

The Australian Patents Register is the official record and should be referred to for the full details pertaining to this IP Right.

Extracts from the Patents Act, 1990

Sect 120(1A) Infringement proceedings in respect of an innovation patent cannot be started unless the patent has been certified.

Sec 128 **Application for relief from unjustified threats**

- (1) Where a person, by means of circulars, advertisements or otherwise, threatens a person with infringement proceedings or other similar proceedings a person aggrieved may apply to a prescribed court, or to another court having jurisdiction to hear and determine the application, for:
- (a) a declaration that the threats are unjustifiable; and
 - (b) an injunction against the continuance of the threats; and
 - (c) the recovery of any damages sustained by the applicant as a result of the threats.
- (2) Subsection (1) applies whether or not the person who made the threats is entitled to, or interested in, the patent or a patent application.

Sec 129A **Threats related to an innovation patent application or innovation patent and courts power to grant relief.**

Certain threats of infringement proceedings are always unjustifiable.

- (1) If:
- (a) a person:
 - (i) has applied for an innovation patent, but the application has not been determined; or
 - (ii) has an innovation patent that has not been certified; and
 - (b) the person, by means of circulars, advertisements or otherwise, threatens a person with infringement proceedings or other similar proceedings in respect of the patent applied for, or the patent, as the case may be; then, for the purposes of an application for relief under section 128 by the person threatened, the threats are unjustifiable.

Courts power to grant relief in respect of threats made by the applicant for an innovation patent or the patentee of an uncertified innovation patent

- (2) If an application under section 128 for relief relates to threats made in respect of an innovation patent that has not been certified or an application for an innovation patent, the court may grant the application the relief applied for.

Courts power to grant relief in respect of threats made by the patentee of certified innovation patent

- (3) If an application under section 128 for relief relates to threats made in respect of a certified innovation patent, the court may grant the applicant the relief applied for unless the respondent satisfies the court that the acts about which the threats were made infringed, or would infringe, a claim that is not shown by the applicant to be invalid.

Schedule 1 **Dictionary**

certified, in respect of an innovation patent other than in section 19, means a certificate of examination issued by the Commissioner under paragraph 101E(e) in respect of the patent



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CERTIFICATE OF GRANT INNOVATION PATENT

Patent number: 2020101038

The Commissioner of Patents has granted the above patent on 8 July 2020, and certifies that the below particulars have been registered in the Register of Patents.

Name and address of patentee(s):

Qilu University of Technology of No.3501, Daxue Road, Changqing District Jinan Shandong Province 250353 China

Title of invention:

PREPARATION METHOD OF LIGNIN-RESIN SUPER-HYDROPHOBIC INSULATED CORROSION-RESISTANT COATING

Name of inventor(s):

WANG, Shoujuan; SUN, Haodong and KONG, Fangong

Term of Patent:

Eight years from 18 June 2020

NOTE: This Innovation Patent cannot be enforced unless and until it has been examined by the Commissioner of Patents and a Certificate of Examination has been issued. See sections 120(1A) and 129A of the Patents Act 1990, set out on the reverse of this document.

Priority details:

Number	Date	Filed with
201910547026.0	24 June 2019	CN



Dated this 8th day of July 2020

Commissioner of Patents

PATENTS ACT 1990

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Sect 120(1A) Infringement proceedings in respect of an innovation patent cannot be started unless the patent has been certified.

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certified, in respect of an innovation patent other than in section 19, means a certificate of examination issued by the Commissioner under paragraph 101E(e) in respect of the patent



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CERTIFICATE OF GRANT INNOVATION PATENT

Patent number: 2020101808

The Commissioner of Patents has granted the above patent on 2 September 2020, and certifies that the below particulars have been registered in the Register of Patents.

Name and address of patentee(s):

Qilu University of Technology of No. 3501, Daxue Road, Changqing District Jinan City Shandong China

Title of invention:

PHASE-CHANGE TEMPERATURE CONTROL MATERIAL COMPOUNDED FROM HYBRID FIBERS AND PREPARATION METHOD THEREOF

Name of inventor(s):

Wang, Shoujuan; Dong, Xiaobin; Kong, Fangong; Han, Wenjia; Li, Guodong and Sun, Jiaojiao

Term of Patent:

Eight years from 13 August 2020

NOTE: This Innovation Patent cannot be enforced unless and until it has been examined by the Commissioner of Patents and a Certificate of Examination has been issued. See sections 120(1A) and 129A of the Patents Act 1990, set out on the reverse of this document.

Priority details:

Number	Date	Filed with
202010190971.2	18 March 2020	CN



Dated this 2nd day of September 2020

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证书号第 3231494 号



发明专利证书

发明名称: 管状 Ni-Pt 纳米合金的制备方法

发明人: 孔凡功;王守娟;赵鑫;陈洪雷;刘玉

专利号: ZL 2017 1 0129087.6

专利申请日: 2017 年 03 月 06 日

专利权人: 齐鲁工业大学

地址: 250353 山东省济南市长清区大学路 3501 号齐鲁工业大学
造纸与植物资源工程学院

授权公告日: 2019 年 01 月 25 日

授权公告号: CN 106890998 B

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证书号第 3231494 号



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申请日时本专利记载的申请人、发明人信息如下：

申请人：

齐鲁工业大学

发明人：

孔凡功；王守娟；赵鑫；陈洪雷；刘玉

证书号第 3522330 号



发 明 专 利 证 书

发 明 名 称：一种木素改性物的制备方法及其应用

发 明 人：孔凡功;赵鑫;李燕;仲亚杰;王守娟;刘忠明

专 利 号：ZL 2018 1 0030119.1

专利申请日：2018 年 01 月 12 日

专 利 权 人：齐鲁工业大学

地 址：250399 山东省济南市长清区大学路 3501 号

授权公告日：2019 年 09 月 10 日

授权公告号：CN 108299607 B

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