









# Scientific Production - JOURNAL ARTICLES

Scientific Production - JOURNAL ARTICLES  
Brazilian Journal of Microbiology

Microbiology  
Nuclear Instruments and Methods in Physics Research B - Beam Interactions with Materials and Atoms

Nuclear Instruments & Methods in Physics Research B  
Packaging, Transport, Storage & Security of Radioactive Materials

Journal of Radioanalytical and Nuclear Chemistry  
Nuclear Instruments & Methods in Physics Research B  
Packaging, Transport, Storage & Security of Radioactive Materials

Nuclear Instruments & Methods in Physics Research A

Nuclear Instruments & Methods in Physics Research B - Beam Interactions with Materials and Atoms

Nuclear Instruments and Methods in Physics Research B - Beam Interactions with Materials and Atoms

Nuclear Instruments and Methods in Physics Research A - Accelerators, Spectrometers, Detectors and Associated Equipment

Food Control

Food Control

Meat Science

Journal of Radioanalytical and Nuclear Chemistry

Journal of Radioanalytical and Nuclear Chemistry

Journal of Radioanalytical and Nuclear Chemistry

Nephrology

Medical Physics

Journal of the Brazilian Chemical Society

Journal of the Brazilian Chemical Society

International Journal of Low radiation

Physica B

Health Physics















































# Scientific Production - JOURNAL ARTICLES

b n t s h m g n k ? ~ M b M r M Z ? a q d r r h ~ m h k ? i M b M Z ?  
a q d r r h ~ m h k ? ~ M g M ~ M ? r a o q ? ~ a o ~ ~ E ! @ c , a ± ? ± § ?  
r a R m S n s c b ? E c u i ? ± ± ~ 2 ± μ a q ? μ ? **Materials  
Science Forum** ? , M ? S X W L X X I ? 2 M ? R V T L R W O K ? Q O O T M

c ° ` y k ? I M Z ? o d b g ` q q n l ` m k ? b M Z ? I n m s d k ?  
e l c M Z ? r ` m y k ? i M Z ? h f k d r h ` r k ? i M d M Z ? I n x ` k ? i M r M Z ?  
x ` l ` f ` s ` k ? b M Z ? I d k k n ? b ` r s ` m g n k ?  
r l q m g M ? r > ° q ? i μ a q ? q ? @ ! ~ c @ ? ! , ± 0 . q ± ° k ? c ° ± ?  
0 . - a ° ! μ a i ° a i ? 2 ± 2 ! q ± ! μ a i ? ± § > > q a . - ? ± μ a ° a c q ? ! ?  
@ ± μ a ? ~ c q ° a M ? **Chemistry of Materials** k ? d t ` k ? , M ?  
P V K ? 2 M ? P V V S L P V W Q ? Q O O T M

e d k h m s n k ? I M b M e l l b M Z ? o ` q q ` k ? c M e l l Z ? k t f Š n k ?  
` M a M Z ? a ` s h r s ` k ? I M d M Z ? b ` I h k n k ? q M k M Z ? g h f ` k ?  
n M y M Z ? q h a d k ` k ? I M s l b M M Z ? r ` l o ` h n k ? k M b M Z ?  
x ` l ` t q ` k ? I M ? I c ° ~ ! q a ? 2 ± 0 a - ! a a ?  
- a a ± μ a 2 @ ! ? μ a ± ? 2 ± q ! a ° ? c ± μ a ± 2 a ± ° M ? **Nuclear  
Instruments and Methods in Physics Research  
B - Beam Interactions With Materials and  
Atoms** k ? , M ? Q R U K ? 2 M ? P L S K ? 2 M ? S X T L T O O K ? Q O O T M

f n c n x k ? ~ M k l d M Z ? a q d r r h ~ m h k ? ~ M g M ~ M Z ?  
a q d r r h ~ m h k ? i M b M ? c ! ° μ a § a c q ± ° μ a ? ± § ?  
r a b Y ` @ Q n R V x Q n R ? 1 a q ? 2 ± 0 > - ! ? c ± μ a ± ° μ a ?  
**Materials Science Forum** k ? , M ? S X W L X X I ? 2 M ? S X S L  
S X X I ? Q O O T M

f n l d r k ? d M f M Z ? q n r r h k ? i M k M ? I a ± μ a q ? ~ a q ? ~ c @ ?  
m @ c ` c a q ? i μ a c q ± ° ± § > μ a c ° a o ~ ~ ? ! @ ! a q ? ± ° ?  
- a a ± μ a ± 2 > ± § μ a 2 ` c a ? § > - ! ? a ? ~ @ N r a b 2 ? ~ c q a a ° ?  
± ± - 2 ± μ a q ? μ a ? **Materials Science Forum** k ? y . a a c k ?  
M ? S X W L X X I ? 2 M ? Q T P L Q T U K ? Q O O T M

h y g d u r j x h k ? u l M Z ? a q d r r h ~ m h k ? ~ M g M ~ M Z ?  
a q d r r h ~ m h k ? i M b M ? d § § ! a q ? ± § 0 3 . a ± ? 2 @ μ a ?  
μ a q ? ! a o ~ ~ ± ° ? - a a ± μ a q ? ~ a q ? . ! ? c ° ± ? - ! a c ° a a c @ ?  
2 ± 2 ! q a ? μ a ± § ? x f Q n R L ~ @ m ? ± ° q a a o ~ ~ ? r a b L E c u i ? ± ?  
a ! ? c - a a q μ a ? **Journal of the American Ceramic  
Society** k ? t r ` k ? , M ? W W K ? 2 M ? P P T L P P O P K ? Q O O T M

i d r t r k ? d M q M a M Z ? i d r t r ? e h k g n k ? d M r M Z ?  
q n c q h f t d r k ? i M k M Z ? q n r r h k ? i M k M ? ~ ± ? c 2 a ± ?  
± ± ° § ± - c ± μ a ± 2 ± μ a 2 ` c a ? 2 c ` e ! . μ a ± ! ~ ? § ! ~ c - ! ° q e ?  
± ! ? ± ± q ! M ? **Revista Máquinas e Metais** k ? r - ± ?  
o c . @ ± k ? ° M ? S V U K ? 2 M ? Q O O L P R K ? Q O O T M

i d r t r ? e h k g n k ? d M r M Z ? r ` k f ` c n k ? k M Z ? i d r t r k ?  
r M k M Z ? q n r r h k ? i M k M Z ? b n k n r h k ? I M ~ M Z ? r ` m s n r k ?  
i M b M ? I c a o a o ~ ~ ? c ° ± ? - ! a c ° a a c @ ? a c q ? i μ a q ? ± ° ?  
± § μ a q ? ! ? ± ? , c @ , ! ? μ a q ? μ a ? q μ a ? **Materials Science  
Forum** k ? y . a a c k ? , M ? S X W L X X I ? 2 M ? V X L W S K ? Q O O T M

j t m h n r g h k ? b M s M Z ? b n q q d ` k ? n M u l M Z ?  
q ` l ` m ` s ` g ` m k ? k l u l ? d ± μ a ± ° L n ° a ± c q ± ° ?  
£ ! @ c , a ± ? ± § q ? ! ~ c @ ? μ a 2 ` c a ? ± μ a Q O b ? c @ ± ± ? c ° ± ?  
v b ? c ± ? b R B Q a i ~ ! ~ ! ? μ a ± c q a o ~ ~ μ a ? **Materials  
Research** k ? a ` c a ° a k ? , M ? W K ? ° M ? Q K ? 2 M ? P Q T L P Q X I ? Q O O T M

k h l ` k ? m M a M Z ? b n r s ` k ? e M ~ M Z ? ` l a q n r h n ?  
e h k g n k ? e M Z ? f n l d r k ? t M t M Z ? ` k u d r ? i q m h n q k ?  
b M Z ? r h k u ` k ? ~ M f M o M ? c ! ° μ a § a c q ± ° ± § ?  
° c ° ± ± > μ a q @ 0 0 ° ! ? v L b . ? ± - 2 ± μ a q ! ? ± . a o ~ ~ ?  
μ a q ! ! a o ~ ~ ? **International Journal of Powder  
Metallurgy** k ? d t ` k ? , M ? S P K ? 2 M ? T P L T V K ? Q O O T M

k h l ` k ? k l e l l b M Z ? s ` j h h r g h k ? g M Z ? e ` q h ` k ? q M l M ?  
c > ° c - a a ? - ! a c ° a a c @ ? c ° c @ μ a ± § ? ± 2 ! L  
± ± ° q a a o ~ ~ ? - c ° ~ ! q a ? o L e ! L a ? c @ ± μ a ? **Journal of**

**Magnetism and Magnetic Materials** k ? g ± 0 0 c ° ± k ?  
M ? Q W T K ? 2 M ? P P Q L P P V K ? Q O O T M

k h l ` k ? m M a M Z ? r b ` o h l k ? I M ~ M Z ? r b ` o h l k ? u l M M Z ?  
r ` k u ` c n q k ? u l k l q M Z ? r ` s n k ? h M I M ?  
c ! q ! ~ a ° c - ± ± μ a q ? ± ! μ a ± ? r a ? ? ? ~ @ ? μ a ± , ! @ ? ! - ?  
c ° a o ± - a ° ! c a μ a 2 ± ? ! μ a 2 ! a q ± - ! q a c ? ± ? c a ± μ a ? w ?  
G v c w q e H I ? **Avances en analisis por tecnicas de  
rayos X** k ? ~ ! ~ ! ° q a c k ? , M ? w h h k ? 2 M ? S U L T O K ? Q O O T M

l ` q b g h k ? i M Z ? a q d r r h ~ m h k ? i M b M Z ? a q d r r h ~ m h k ?  
` M g M ~ M ? c a o c q ± - ! q a a q μ a . a ± μ a ± § ? r a n Q L q d Q n R L  
` @ Q n R H ? μ a ° a ± ° ? a c ` c a ± ? a ! ? c - a a q μ a ? **Materials  
Research** k ? a ` c a ° a k ? , M ? W K ? 2 M ? Q O P L Q O T K ? Q O O T M

l ` q b g h k ? i M Z ? I n q ` h r k ? c M r M Z ? r b g m d h c d q k ? i M Z ?  
a q d r r h ~ m h k ? i M b M Z ? a q d r r h ~ m h k ? ~ M g M ~ M ?  
b @ c ` c a q ! a a c q ± ° ± § ? c ` ! ? ! c q @ ? c @ . - a ° ± μ a ° a c q ? ! ?  
~ @ c μ a ! μ a ? **Journal of Non-Crystalline Solids** k ? , M ?  
R T P K ? 2 M ? W U R L W U W K ? Q O O T M

l ` q h ` k u ` m d s n k ? ~ M ` Z ? b t m g ` k ? r M I Z ?  
r h k u ` k ? ~ M b Z ? I d k k n ? b ` r s ` m g n k ? r M q M g M ?  
r ± 0 a ± ? ~ c @ , c ° a a ? 1 c μ a ! μ a a ± 2 ± c q a ± ° a ? ~ @ c μ a ?  
- c q a ± μ a ? **Materials Science Forum** k ? , M ? S X W L X X I ?  
2 M ? T O O L T O T K ? Q O O T M

l ` s t c ` k ? s M f M Z ? o ` q q ` k ? c M e l l Z ? k t f ` n k ? ~ M a Z ?  
s ` c h m h k ? b M h ° § 0 . ! a i ? ± § ? , ! ~ ! q c £ 0 ! ? μ a ± q ! a o ~ ~ ?  
c ° ± ? ! ~ . @ μ a § a ! μ a ± ° q @ ! ? . ° § ± 4 ! ° ? 1 c q ! ? ± ± ° q ! ° q ?  
c ° ± ? q ! ° q . c @ ? 2 ± 2 ! q a ! μ a ± § ? ± 4 ! ° q e ! ° a o ? c ` ! c ± ?  
± ± . ~ @ ! ? **LWT-Food Science and Technology** k ? , M ?  
R W K ? ° M ? R K ? 2 M ? Q V T L Q W O K ? Q O O T M

l h b g d k h k ? k M Z ? b n r s ` k ? h M ? b ± ~ ± μ a ± ° 2 ± q ! μ a ± ° ?  
± § ? ~ h r h ? R O S ? μ a c a o @ ! μ a μ a ! ! @ ? § a q ! μ a ± > c q μ a . § c a ! ?  
q ! c q ~ ! ° q M ? **Materials Science Forum** k ? , M ? S X W N X X I ?  
2 M ? X R L X V K ? Q O O T M

l t b b h k k n k ? d M l M r M Z ? a q d r r h ~ m h k ? ~ M g M ~ M Z ?  
o ` r b g n ` k k ? i M n M ~ M Z ? k ` y ` q k ? c M q M q M Z ? t r r t h k ?  
u l M ? d , c @ . c q ± ° ± § q @ ! ? ! § § ! a q ± § @ ! c , > ? c ` ! ? ! c q @ ?  
! @ ! - ! ° q μ a ± ° ! @ ! a q a c @ ? ! μ a μ a , a q ± § ? μ a ± a a c L  
> q a c ? a ! ? c - a a q μ a ? **Materials Science Forum** k ? , M ?  
S X W L S X I ? 2 M ? R O T L R P O K ? Q O O T M

l t b b h k k n k ? d M l M r M Z ? e k n q h n k ? c M y M Z ?  
e n m r d b ` k ? e M b M Z ? I t b b h k k n k ? q M Z ?  
s q ` u d q r ` k ? d M Z ? d r o n r h s n k ? u l M ? d @ ! a q a c @ ?  
2 ± 2 ! q a ! μ a ± § ? x r y n m a n ? a ± - 2 ± μ a q ! μ a 2 ` 1 2 c ` ! ± § > ?  
c @ a 3 . a ± ? - a o q . ! ? q ! a o a 3 . ! M ? **Journal of the  
European Ceramic Society** k ? , M ? Q T K ? ° M ? P O K ? 2 M ?  
Q U R V L Q U S P K ? Q O O T M

l t b b h k k n k ? d M l M r M Z ? e q ` m b g h k ? k M Z ? r ` m s n r k ?  
i M s M Z ? b n r d m s h m n k ? h M b M Z ? I t b b h k k n k ? q M ? o @ c μ a ?  
c - ± 2 @ μ a q ± ° ± § . a o ~ ~ ? @ a ° @ L ! ° ! ~ ~ > ~ - a a o a ~ ~ ± § ?  
- a o q . ! μ a ± § ? μ a ± a c ? 1 a q @ > a q a c ? ± ? a ! a c ?  
2 ± 1 ± μ a ? **Materials Science Forum** k ? , M ? S X W L S X I ?  
2 M ? R R P L R R U K ? Q O O T M

l t b b h k k n k ? d M l M r M Z ? f n t u d ` c M Z ? e k n q h n k ?  
c M y M Z ? o d q d h q ` k ? f M i M Z ? b ` r s q n k ? q M g M q M ?  
c ! ° μ a § a c q ± ° c ° ± ? ! @ ! a q a c @ ? ± ± ° ± . a q a , a q ± § ? § c μ a ?  
§ a ! ± ? ~ c ° ~ μ a ! L ± 2 ! ± a ! a c ? a ! ? c - a a q μ a ?  
**Materials Letters** k ? f ! ° ! c @ ? ! ± a H K ? , M ? T X K ? ° M ? P O K ? 2 M ?  
P P X T L P P X X I ? Q O O T M



















## Scientific Production - JOURNAL ARTICLES

rhku`k?elqM?bntqqnk?kMbz?`qdkgn?  
kMufM?fnldr?kM?uhdhq`?i?mhnqK?mM?  
d°@c°α; - °?±§?; . ±2<sup>a</sup>. - ?0. - a°; μα; °α; ?  
¶!¶'cα>>α°;L; . ±2<sup>a</sup>. - ?α± - 20; μ?°?¶!?  
2'μ; °α; ±§? . 'c?O>>Y'±'°?2; ±°αY;M? **Journal of  
Fluorescence** ,M?PTK?°M?TK?2?UUVLUVPK?QOOTM

uhk`k?kM?YcZ?fnldr?kM?dxy`fthqqd?  
bMqM?qncqhf tdyK?dM?bdr`qK?bMkM?  
a`qanr`k?kM?bM?sa`?; μ±0; ;Y?0. - a°; μα; °α; ?  
a°?s`Yg±Y±2; Y;¶;00. - ¶!; ?'0cμ; μ; **Optical  
Materials** ,M?QVK?°M?WK?2?PRRRLPRRX?K?QOOTM

unlhq?lM?`mcq`cdk?kM?gM?fthcnmh?  
kM?ad`tqdo`hqdk?dM?ahfns?iMlxM?q; c0?  
μ<sup>2</sup>cα; ¶'cα; ±'>±§?¶!; ?'0c\$μ; ¶'c°°; ¶!α; ±°?  
Y>>°c`aαμ; a°?§; !'± - c°°; ¶!α; ? - ¶!c0μ; **Physical  
Review Letters** ,M?±0M?XSK?°M?QRVUOPK?2?PLSK?  
QOOTM





# Scientific Production - THESIS

Reis, Edson L. T. dos

Reis, Edson L. T. dos

Ribeiro, Andreza P. d

Rocha-Cabral, Renata M.

Ros, Renato A.

Salles, Alvaro W. R.

Sanchez, Andrea C

Santos, Carlos A. X.

Santos, Hamilta de O.

Saucia, Catia H. R.

Semmler, Renato

Seneda, José A.

Souza, Kellie P. de

Souza, Maria D. C. A. de

Sumiya, Luiz C. do A.

Takeda, Mauro N.

Takeda, Mauro N.

Tejos Saldivia, Miguel E.

Ueda, Eric K. M.

Vasconcellos, Mari E. de

Vivolo, Vitor

Ximenes, Edmir

Zahn, Guilherme S.

2005

Aldegheri, Eliane B.

Almeida Filho, Américo de

Angelo, Jonhson D.

Barbosa, Luzinete P.

Baucia, Jose A.



















# Scientific Production - DISSERTATIONS

**Romanato , Luiz S.** r 2 | °¶° · ¢ | ¢ ? § · | 0; µ ¶ ± ¢ ° · | ¶

**Rossi, Rively R.** *In vitro* µ ¶ · ¥ » ? ± § ¶ | ? - ¢ ° ° ¢ ¶ ?  
- ° ¢ ± 0 | ¢ ° ° ? | ° ° ? ¢ µ ¶ u ? ¢ ¢ , ¢ ¶ | µ ? ' | µ ¶ ± ¢ ¶ ± ° µ ¶ ° ?  
¥ | ¢ ¢ ¥ · ± µ ¶ | | ¶ | 0 ¶ ? 2 ' | 2 ¢ ' | ¥ ? 1 ¢ ¶ | ¢ ° ? d ¶ b ¶ x r f f ?  
0 ¢ µ | ? ¢ ° ¥ ? 0 ° ° | 0 µ 2 | | ¥ ? 0 ¢ ° ¥ 2 ° | ¢ | ¶ ? · µ ° ° ? ¶ | ± ?  
¥ ¢ § § | ' | ° ¶ ? ° ¢ µ ¶ ° ± ° ± - | ¶ µ |

**Setz , Luiz F. G.** n ¶ ¶ ¢ ° ° - | ° ¶ ± § ? k ¢ ¶ ° · r ' · b ' ¶  
· b ± · n ¶ ? ¢ ± - ¢ · µ ¶ ± ° ? µ » ° ¶ | µ ¶ µ |

**Silva, Angelica M. da** d ¢ ± ¶ ± ° ¢ ± 0 ± ° ¢ ?  
| , ¢ 0 · ¢ ¶ ± ° ? ± § ? 2 | ' - | ¶ | 0 ° ° ? 2 | µ ¶ ¢ ¢ ¥ | ¶ | 0 ° ± · ° ° ?  
¶ ± ° ¢ ¢ ¶ » ? ¢ µ ¶ ¢ » ? 1 ¢ ¶ ° ° , | ¶ | ¢ ' ¢ ¶ | ? ± ° ° ¢ ° µ - µ |

**Silva, Katia S. da** r » ° ¶ | µ ¶ ± § ¶ | ? ¢ ± - 2 ± · ° ¥ ?  
¶ | ¶ ' ¢ - ° µ ¶ Q L - | ¶ | 0 ± ° » ? ° µ ± ¢ · ¶ » 0 ? µ ± ° ¢ ¶ ° 0 | H ? ¢ ± 2 2 | ?  
G h H ¶ | ¶ ' ¢ § 0 · ± ¢ ¢ ± ¢ ¶ ? | ¶ G b · z l h a h | , a e , H ? µ · ¢ µ ¶ ¢ ° ¢ | ?  
· µ | ¥ ? ° ¶ | ? 2 ' ± ¥ · ¢ ¶ ± ° ? ± § ¶ | ?  
' ¢ ¥ ¢ ± 2 0 ¢ ' - ¢ ¢ | · ¶ ¢ ¢ ? r d r s ` l h a h L ° ° s ¶ |

**Silva, Leonardo M. da** l ± ± « | ° ¢ ° ¶ ? 2 ' ± ¶ | ¢ ¢ ?  
¶ | 0 ° ± - ¢ ° ° ° ° ° ¢ ¢ ¶ ± ? ° µ ± 0 ¢ ¶ | ¥ ? § ± - ¶ | 0 | ? a ± ¶ | 0 ° ± 2 µ ?  
- ± ± « | ° ¢ ° µ ° ¢ - | ? , | ° ± - µ |

**Soares, Edson P.** l ¢ ° ° | ¶ ¢ ° ¢ ¢ ¢ ¢ ¶ | ° ¼ ¢ ¶ ± ° ?  
¢ ° ¥ ? - ° ¢ ± µ ¶ · ¢ ¶ · ¢ 0 ? ± § ? µ ° ¶ | ' | ¥ ? - ¢ ° ° | ¶ µ ± § ? o L  
e | L a ? 2 ' ± ¢ | µ µ | ¥ ? § » ¶ | 0 | ¶ | ¢ 0 ° ¢ 3 · | ? ± § ¶ ' ¢ ° µ § | ? ± § ?  
2 ± 1 ¥ | µ ? ¢ ° ¥ ? · µ ° ° ? 0 » ¥ ± ° ° ? ¶ | ¢ ' | 2 ¢ ¶ ¢ ¶ ± ° ¶ |

**Tassinari, Silvia C.** d § § | ¢ ¶ ± § ? 0 ± 1 L 0 | , | 0 ? 0 ¢ µ | ?  
¶ | 0 | ¢ 2 » ? ± ° ? ¢ 0 ? ¢ ¶ ? - · ¢ ± µ ¢ ? ' | 2 ¢ ° ¶

**Zegaib, Silmea** l ° ¢ ± ¢ ± 0 ± ° ¢ 0 ? ¢ µ µ | µ µ - | ° ¶ ° ° ?  
2 | ° ¢ ± ¥ ± ° ¶ ¢ 0 ° § | ¢ ¶ | ¥ ? 2 ± ¢ - | ¶ µ § ± 0 0 ± 1 a ° ° ? ¥ ¢ § § | ' | ° ¶ ?  
¶ | 0 | ¢ 2 ° | µ | ? r ¢ ¢ 0 ° ° ° ? ¢ ° ¥ ? ' ± ± ¶ ? 2 0 ¢ ° ° ° ° ? · 0 ¶ ' ¢ µ ± ° ¢ ¢ ?  
¥ | ¢ ° ¥ | - | ° ¶ ± ? µ ¢ ¢ ° ° ° ? ¢ ° ¥ ? ' ± ± ¶ ? 2 0 ¢ ° ° ° ° ?  
¢ µ µ ± ¢ ¢ ¶ | ¥ ? ¶ ± ¢ ? 0 ° ° ? 2 ± 1 | ? ¥ ¢ ± ¥ | ? 0 ¢ µ | ? G W P T ?  
ó P T ° - H ° ° ? , a , ± µ ¶ · ¥ » |

2007

Process for the remediation of chicken houser by removing the ammonia gas and its recovery for hydrogen generation

Anode for fuel cells based on microtubes of impregnated nanostructured porous walls

Hydrophobic agent of a linear polymer in an arrangement of fiber structures of high porosity

Electrode for fuel cells based on nanostructured porous walls microtubes of carbonized material

Nanostructured metallic foam catalyst

Cathode for fuel cells of porous walls microtubes of entangled silver nanotubes

Cathode for fuel cells of nickel porous walls microtubes activated with catalyst

Anode for fuel cells based on microtubes of nanostructured porous walls of carbon materials partially impregnated with ionomer

Photosensitive method and pharmaceutical composition for the treatment of cutaneous tumor lesions in mammals

Process for the preparation of nanostructured metal/carbon hybrid materials by hydrothermal carbonization for the application as electrocatalysts in low temperature fuel cells

« . ° ! ? QOOVM

High resistivity semiconductor radiation detector sensitive to charge movement

Composition for producing starch foam resistant to industrial, domestic and microwave temperature oven

Nanostructured cutaneous bioadhesive for photodynamic therapy

Bioconjugate with hemocompatible properties

Copolímero anfífilico (NVP-coDMAM) para liberación controlada de fármacos

Tunable dual wavelength emitting diode laser

Microbiological process of bacterial cultivation for obtaining human prolactin

Device to produce negative pressure for starch foam manufacturing

Process for lavonoids radiolabeling and its application on in vivo diagnosis of brain disfunctions related to benzodiazepine receptors sites

Production of frits and glazes from industrial waste from deteriorated lining of primary aluminum cells

Red mud/polymer composites from aluminium extration process recycling



# Technical Production - PATENTS 1a V \_ U Z \_ X

2006

~ 0 - a ~ n m ; f ± z ? 1 c ~ r ; k a ° c ~ r z ? q ± £ ! ~ f ± ? v m ? q m ?  
u m ? r a ° , c z ? q a c ~ r ± ? q m ? c a c m ? **A glucose  
reduction process for the preparation of  
electrocatalysts for proton exchange  
membrane fuel cells** m ? a q ? o h ? O U O S X Q O K ? P R K ?  
± r f ± £ ! ? Q O O U M

e £ f ± ? d m ? r a ° b ± m ? c z ? o c ~ 0 ± ? q m ? q ! 0 c z ? 1 c ~ r ~ a ~ r ? 1 m ?  
g c ~ c ~ r ? **Intraoperative gamma probe  
preamplifier using semiconductor radiation  
detectors** m ? a q ? ? 1 t ? W U O Q T U U L O K ? O P K ? r ; ± ! - £ ! ?  
Q O O U M

i | m ~ c ~ r ± ? k m ? q ± m ? z ? k ~ r ± ? r c ~ c ~ r z ? e ~ c ~ r a ~ m ± ? ~ m ?  
e a ° 0 ± z ? d ~ r ± ? r m ? r ? i m ? e a ° 0 ± z ? i ± m ? b m ? r c ° ? ± m ? z ?  
1 c ~ r ± ? ~ m ? b ± 0 ± m ± ? **Sintered insert for valve  
seat and fabrication process** m ? a q ? o h ? O U O S Q Q O L  
P K ? P S K ? m ; z f ! - £ ! ? Q O O U M

k c ~ c ? f m ? b c ~ z ? o c ~ r a ° c ? o ± ° r ; z ? ~ r ; - c ? a m ?  
k ~ r ~ z ? c ~ r ; ± ? e m ? o c ~ c ? z ? b c ~ r ± ? q m ? a c m ± m ?  
**Starch foam temperature resistant at the  
level of domestic oven, ovens of food industry  
processing and domestic microwave oven** !  
a q ? o h ? O U O R X R Q L S K ? Q O K ? - c ~ r ? Q O O U M

k a ° c ? b m ? b ± ~ ± z ? k c ~ r ± ? f ± - | m z ? m a ° m ± ° c m ? u m ?  
i ~ o ± z ? e ° e , a ? q m ? r ? n m ? r a ° , c z ? q ± ° c ~ r ± ? c m ?  
1 c ~ r ± ? ± m ? **Biosensor of urea peroxide based  
on tetracycline-europium complexes** m ? a q ? o h ?  
O U O Q Q V X L O K ? R P K ? - c ~ r ? Q O O U M

o c ~ r a ° c ? o ± ° r ; z ? k c ~ c ? f m ? b c ~ z ? ~ r ; - c ? a m ?  
k ~ r ~ z ? c ~ r ; ± ? e m ? o c ~ c ? z ? b c ~ r ± ? q m ? a c m ± m ?  
**Adhesion process for surfaces of starch and  
modified starches** m ? a q ? o h ? O U O P P P X L T K ? Q O K ?  
- c ~ r ? Q O O U M

o c ~ r a ° c ? o ± ° r ; z ? k c ~ c ? f m ? b c ~ z ? c ~ r ; ± ? e m ? o c ~ c ? z ?  
~ r ; - c ? a m ? k ~ r ~ z ? b c ~ r ± ? q m ? a c m ± m ?  
**Composition for producing starch foam  
resistant to moisture and freeze-thaw cycles** m ?  
a q ? o b s n a q ? Q O O U N O O P P T K ? P U K ? ~ r ; ± ! - £ ! ? Q O O U M

2005

~ r ; - c ? a m ? k ~ r ~ z ? o c ~ r a ° c ? o ± ° r ; z ? k c ~ c ? f m ?  
b c ~ z ? c ~ r ; ± ? e m ? o c ~ c ? z ? b c ~ r ± ? q m ? a c m ± m ?  
**Device applied to the process of starch foam  
sealing** m ? a q ? 1 t ? W T O Q X P S L X K ? O X K ? m ; z f ! - £ ! ?  
Q O O T M

~ r ; - c ? a m ? k ~ r ~ z ? **Hormone delayed release  
composition on the basis of  
polyorganosiloxanes or ethylene vinyl acetate  
resp. process for its manufacture** m ? a q ?  
o b s n a q ? Q O O T N O O P W R K ? O X K ? m ; z f ! - £ ! ? Q O O T M

d m ? f ~ c ~ r ? u m ? r a ° c ~ r z ? ~ 0 - a ~ n m ; f ± z ? c a ± ° a m ± ?  
e m ? r a ° , c z ? 1 c ~ r ; k a ° c ~ r z ? d ~ r ± ? r m ? o a ± z ?  
u a ~ r ± ? ~ m ? r a ° b ~ r ; ± ? **Process of preparation of  
electrocatalysts using radiolytic process for  
proton exchange membrane fuel cells** m ? a q ? o h ?  
O T O T S P U L W K ? O W K ? r ; ± ! - £ ! ? Q O O T M

i ± m ? 1 m ? o a m ± ° z ? i ± m ? q m ? 1 c ~ r ° ! 0 0 m ? **Non-  
aqueous acid electrolyte for low voltage**

**battery** m ? a q ? o h ? O T O S P X W L W K ? O X K ? c ~ r ~ m ? Q O O T M  
1 a ° c ~ r ± ? r m ? e m ? r ; ± ? k a - c z ? v c ~ r ~ o ; ~ r ; ± ? q ± m ? z ? i ± m ? q m ?  
a i ~ r ; ± ? **Steel and titanium welding by laser  
process** m ? a q ? o h ? O T O P W X U L O K ? Q W K ? c 2 ~ a ° ? Q O O T M

k c ~ c ? f m ? b c ~ z ? o c ~ r a ° c ? o ± ° r ; z ? ~ r ; - c ? a m ?  
k ~ r ~ z ? c ~ r ; ± ? e m ? o c ~ c ? z ? b c ~ r ± ? q m ? a c m ± m ?  
**Sealing process of biodegradable surfaces** m ?  
a q ? 1 t ? W T O R P Q O L W K ? Q W K ? ~ r ; ± ! - £ ! ? Q O O T M

1 a ° c ~ r ± ? r m ? e m ? r ; ± ? k a - c z ? v c ~ r ~ o ; ~ r ; ± ? q ± m ? z ? i ± m ? q m ?  
a i ~ r ; ± ? **Steel and titanium welding by laser  
process** m ? a q ? o h ? O T O P W X U L O K ? Q W K ? c 2 ~ a ° ? Q O O T M

o c ~ r a ° c ? o ± ° r ; z ? k c ~ c ? f m ? b c ~ z ? c ~ r ; ± ? e m ? o c ~ c ? z ?  
~ r ; - c ? a m ? k ~ r ~ z ? b c ~ r ± ? q m ? a c m ± m ?  
**Composition for producing starch foam  
resistant to moisture and freeze-thaw cycles** m ?  
a q ? o h ? O T O Q R R W L U K ? P U K ? ~ r ; ± ! - £ ! ? Q O O T M

o c ~ 0 ± ? d m ? r ; ± ? n m ? k c a ° ! r a z ? d ~ r ± ? s c ~ r ; m ° z ? i ± - ± ? a m ?  
r ; ± ? ~ r ; ± ? z ? q a c ~ r ± ? b c ~ r ± ? a c m ± m ? **Device for  
transfer by tilting of radioactive and/or  
dangerous compounds packed in drums** m ? a q ?  
o h ? O T O U S O P L T K ? Q W K ? ~ r ; ± ! - £ ! ? Q O O T M

o c ~ 0 ± ? d m ? r ; ± ? n m ? k c a ° ! r a z ? ~ r ; ± ? ~ r ; ± ?  
**Injection device for the decomposition  
process of organic, dangerous and reactive  
wastes in molten salts, metals or slags** m ? a q ? o h ?  
O T O S P S S L X K ? P R K ? m ; z f ! - £ ! ? Q O O T M