

Qeb 4<sup>e</sup> Rkqok qll k i Pvj ml pfr j lk Cfob Obq oa kqJ qof ip Qb'ekl il dfrp FPCOJ Q/-//&  
t fii bebia fk bfgkd)@fk lk Pbnqj bo/0/2)/-//

T fep ebo nfa abs bil nj bkqlc pl`fbq ka fkar pwp) cfob p cbq e pob`bfs ba buqkps b qpkql k  
lc e b dls bokj bkq fkar pwp ka pl`fbq fk dbkbo i Cfob obq oa kq j qof ip ob j lob ka j lob  
t fabiv r pba fk`lkpr`ql k) r d j l fib) bib`qf p ka bib`ql kf p) bol pm`b) o fi q k pml oq ql k)  
sbppbip ka t qo`o ap d o k ql k i b`lkl j f ka pl`f i cfbiap Qeb cfob obq oa k`v nbo d o j k`bp)  
pj lhbq uf fqv ka bks fol kj bkq i fj m`qe s b bkr aep bonr qd ot oa efde boobnr bpq qep b j b  
qj b) e b ll j fkd abs bil nj bkq lc`r qfk d badb q`ekl il dfrp pr`e p kbt bkbodv) 2D  
`lj j r kf ql k p) ilt`o lk ka fda q e p ipl olr deq kbt l mml oq k f qf b p ka`e iibkdbp d e b  
cfob obq oa k`v cfbia Ls bo e b m p q/- vb op) @fk p p q ka oa p v p q j p l c cfob obq oa kq j qof ip  
e s b d o a r i i v b b k f k i f k b t f e f k q o k q l k i l k b p) @fk e p b`l j b i o d b`l r k q v d o m o l a r`q l k  
ka`lkpr j m q l k l c cfob obq oa k q n o l a r`q t f e o n f a a b s b i l n j b k q l c e b f k a r p w p) ka @f k b p b  
p`e l i o p e s b j a b p b o f b p l c f k k l s q s b`e f t s b j b k q p f k e b c f b i a l c c f o b o b q o a k q e b l o v ka  
q`ekl il dv Pfk`b/-.-) FPCOJ Q f k q o k q l k i (@k c b o b k`b e p b b k p r`b p p r i i v e b i a f k @e b k d a r)  
E b c b f) @e k d`e r k) E k d v e l r ka N f k d a l p f u q j b p f q e p m o l j l q a`q s b b u`e k d b p b q b b k  
@e f k b p b ka d l o b f d k f k a r p w p) `a b j f ka f k a r p w p p p l`f q l k p f k e b c f b i a l c c f o b o b q o a k`v)  
`b i b o q a e b p`f b k q c f ka q`ekl il d f i n o l d o b p p ka f k a r p w p i m m i f q l k l c c f o b o b q o a k q  
j qof ip) ka j a b f j m l o q k q`l k q f r q l k p d p l i s f k d c f o b p c b q n o l i b j p) b`l j f k d l k b l c e b  
j l p q f k a i r b k q i f k q o k q l k i`l k c b o b k`b p f k e b d i l i c f o b o b q o a k q c f b i a

q n o b p b k q) e b d i l i @L S F A . 6 m k a b j f f : q  
f k a r p w p f k s l i s b a t f e c f o b o b q o a k q p ka c f o b o b q o a b a j qof ip) ka a s b o p b i v a b`q a  
f k q o k q l k i`a b j f b u`e k d b p f k e b c f b i a E b k`b) f q f p q j b d e l i a k l e b o F P C O J Q  
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Qeb 4<sup>e</sup> FPCOJ Qt fii bel ppa v bfgkd Rkpfq q l c Qb'ekl il dv fk bfgkd)@fk fk/-// Qeb  
pvj ml pfr j e b j b p f k`i r a b K b t c f o b o b q o a k q a b p f d k) f l p b a, d o b b k c f o b o b q o a k`v) C f o b  
o b q o a k q m i v j b o f j qof ip ka`l j m l p f c p p) P j l h b) q u f f q v b k s f o l k j b k q f j m`q  
P q k a o a f w q l k) o b d r i q l k p p b p p j b k q l k c f o b o b q o a k`v) C f o b o b q o a k q j b`e k f p j p ka k b t  
`l k`b n p) @j r p f l k b e s f l o p) j l a b i i f k d ka m o b a f q l k C f o b p c b q f k k b t b k b o d v c f b i a)  
P r p q f k i b a b s b i l n j b k q ka o b`v`i f k d l c c f o b o b q o a k q j qof ip

I l l h f k d d l o t o a d p b b f k d e b b u n b o o p ka p`e l i o p o o l j f k a r p w p) `a b j f) f k a r p w p p p l`f q l k p)  
q p p f k d i l o d o f b p ka j k d b j b k q a b m o j b k q p f k e b c f b i a l c c f o b o b q o a k`v f k b f g k d l o l k i f k b)  
a r o f k d F P C O J Q / - / /

## SnoIbr

Kbt cfob obq ca kqabpfdk	fl pba, dobbk cfob obq ca k`v
Cfob obq ca kqnl ivj bof j qfof ip	Cfob obq ca kq`lj nl pfqpp
Pj lhb)q uf fqv ka bks fol kj bkqfj m`q	Cfob obq ca kqj b`e kfpj p ka kbt `lk`bnnp
Pq ka cafw qfk) obdr i qfk ka ppbppj bkq	@j r pfl k be sfl op) pfj ri qfk ka
lk cfob obq ca k`v	mabaf qfk
Cfob p cbqv fk kbt bkbodv cfba	Pr pq fk ib abs bil nj bkq ka ob`v`ifkd lc
	cfob obq ca kqj qfof ip

## @culrdq mc Nqf nlydq

@culrdc ax

Abm oqj bkql c`ebj f i bkdfkbbofkd) j bq iirodv ka j qfof ip) @efkbpb ` abj vlcBkdfkbbofkd  
Nqf nlydc ax  
bfqkd Hkpfq qplcQb`eklildv) @efk Ci j bObq ca kqPl`fbqv) Pfer k Rkfs bopfv

## Rxl onrlt l Bg hql m

Mlc Vr Welkd T kd) ` abj f f k l cqb @efkbpb ` abj vlcBkdfkbbofkd) Pfer k Rkfs bopfv

## Dwdlt shud Bg hql nr

Mlc Oikdgb V kd) bfqkd Hkpfq qplcQb`eklildv  
Mlc Welkdj l Welr) bfqkd Hkpfq qplcQb`eklildv

## Rlbqds qx Fqnt o

Dbkbo i Pb`obq ov7 Mlc Afkder If  
Pb`obq ofbp Mlc Uf kdj bfI f) Mlc T bk`e l Welkd) Mlc Vb Q kd Mk) Aoffir @ebk

## Bnnedqdnbd dnt d

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M l d	@eellh slmm
I dnmx @knf h	Università degli Studi Di Milano, Italy
F nsdq Adxdq	Cfob ka M ivj bo) bidfr j
Rdqf d Ant qalf ns	BKP@ )Co k' b
Cda dr Ag ss bg qxx	Rkfs bopfv l c r' hi ka)Kbt Wb i ka
F lnu mmhB l lmm	M ifqv' kf l af Ql ofkl ) E q iv
Ede dqfhn B qnrhn	M ifqv' kf l af Ql ofkl ) E q iv
L meqle C qlmf	Co rkel cboI C)Dboj kv
Rnoghl Ct pt drnd	BKP@ )Co k' b
AlmEdh	El kd Hl kd M ivqv' ekf Rkfs bopfv
F lld Enns lmd	University of Lille, France
R ax r bghF m	BJ M )Pt fqvboi ka
I H dFqt nk m	Qbu p J Rkfs bopfv)RP
K h G tqld	M ivqv' ekf Rkfs bopfv l c@q il kf )Pm fk
Xt mGt	Rkfs bopfv l cP' fbk' b ka Qb' ekl il dv l c@æfk )@æfk
S-Qlbg qc Gt lk	Rkfs bopfv l c@bkq i I k' pefob)RH
A lilm dqJ ne nk	Rkfs bopfv l c l id k)RH
I lngv mJ Hl	Pr kdhvr kht k Rkfs bopfv)Pl r qe Hl ob
Nkdf J nqna dmtbg du	F@H@)Or ppf
Rdqf dh -Kdubghj	F@ HJ oapbv)RP
Inr L qld Knody Bt drs	B' libabpJ fkbpa i p)Co k' b
F x qfx L qnrh	r a nbpqRkfs bopfv l cQb' ekl il dv ka B' l kl j f p)Er kd ov
@ldw me dq A- L nqf m	Rkfs bopfv l cA vq k Obpb o' e Rkpfq q)RP
@cqh mL nt qlsy	OJ IQRkfs bopfv) r p p if
S j et l hMnf t bgh	Rkfs bopfv l cQl hvl )Gm k
L r xt j hNj nrgh	Pl' fbqv l cCi j bObq oa kqJ qfof ip)Gm k
Qt cnle Oe dnr mlq	Co rkel cboI C)Dboj kv
Cnqtr Onrolubg	I bf kfwRkpfq qc oM ivj bod op' er kd Aobpabk)Dboj kv
L lqh l Q e lknulbg	Pq kv dl l h Rkfs bopfv PRKV&RP
Adqg qc Rbg qsdk	J ) boifk)Dboj kv
J dlumJ - Rgdm	CO @kpr iq kq)RP
R nlrk u Rsnlh qnu	Rkfs bopfv l cJ ovi ka)RP
I qf dmSqnlhyrbg	Cfob ka Bks fol kj bkqMl q' qfl k Pbos f b)Dboj kv
Cd XhV nf	EJ AB J qfof ipRkpfq q)Pm fk
Xt Ygnnf V nf	Pf er k Rkfs bopfv)@æfk
G n V nf	Rkfs bopfv l cPl r qe bok Nr bbkpi ka) r p p if
B qkDqlb V lldm	l h abj fRkfs bopfv)Cfki ka
Bg qldr @- V Hjl hl	J onr bqp Rkfs bopfv)RP
Bg qldr X nf	Rkfs bopfv l cDbl od f )RP
Qnnf i hl X nf	bfgkd Rkpfq q l cQb' ekl il dv)@æfk
Ft mGdnf Xdng	Rkfs bopfv l cKbt Pl r qe T ibp) r p p if
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J t mB n	Wēbgkd



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<b>Laia Haurie</b>	Be coming
<b>T. Richard Hull</b>	Be coming
<b>Maude Jimenez</b>	Be coming
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<b>Jürgen Troitzsch</b>	Be coming
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<b>Jianzhong Xu</b>	Be coming
<b>Charles Yang</b>	Be coming
<b>Guan Heng Yeoh</b>	Be coming
<b>Ping Zhu</b>	Be coming
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🚦 Xnt sg Enqt l Fk ine bcf iloabolci pql j b&

<b>M l d</b>	<b>Kdbst qd Snolb</b>
<b>KhBgdm</b>	S bop qf b ci j b obq ca kq bnl uv s fcpj bop ka q bfo ` o l k cf bo ` l j nl p fcp s f ` q iv p q oob transesterification
<b>V dhyg n Gt</b>	k f k p f d e q f k d m v l i v p f p ka ci j b obq ca k q j b ` e k f p j l c unsaturated n l i v b p b o o b p f k t f e a f c b o b k q n l i v j b o f l o d k f n e l p n e l o r p p a p r ` q o b
<b>I t mKh</b>	Ci j b retardant j l l cf bo obfkl o`ba m l i v i ` q f ` fa ` l j nl p fcp obdri qba v f k q b o c ` f i p f i f l k b o l d b i
<b>I hl Klt</b>	P v k b o d f p f b o c b ` q b q b b k n e l p n e l o r p ` l k q f k f k d ci j b obq ca k q p ka j b q i p b a ` q i v p q f k b n l u v o b p f k
<b>Xt mKlt</b>	Q e b construction l c ci j b obq ca k q ` b i i r i l p b p b a q u q i b p r p b a f l p b a j q o f i p
<b>Xd S nf O m</b>	Improving q b c f o b p c b q l c b n l u v o b p f k t f e k l s b i j b q i M L P P l o d k f o j b t l o h p
<b>Xnnf P lt</b>	Carbonization l o f b k q b a p v k b o d f p f b o c b ` q f k ci j b obq ca k q c i b u f i b n l i v r o b q e k b c l j
<b>Olnf mRnnf</b>	A b p f d k f k d f l f k p n f o b a c f o b o b q ca k q ` l q k d p c l o a f s b o p b c f o b n o l q b ` q l k p
<b>I t mRt m</b>	I f c b ` v ` i b a b p f d k l c o r i i v f l p b a n l i v i ` q f ` fa & ` l j nl p fcp t f e e f d e ci j b obq ca k ` v ) R S o b p f p q k ` b ) ka a b d o a q l k ` m ` f q v
<b>Xlnf i t mWt</b>	Ci j b retardation l c s f k v i b p b o o b p f k p ka q b f o ` l j nl p fcp s f n e l p n e l o r p ` l k q f k f k d . s f k v i f j fa w i b p i q p
<b>L h n i t mWt</b>	Investigation l c p v k b o d f p f ci j b obq ca k q ka p j l h b p r n n o b p p f l k n l i v l i b c f k ` l j nl p fcp
<b>V dnbg n Yg nf</b>	O b p b o ` e o n f k q f k p f i i v ci j b obq ca k q s f k v i o b p f k ka f q p ` l j nl p fcp j q o f i p
<b>G lan Yg n</b>	A b p f d k a n d c o f q l k l c e f d e n b o d o j k ` b c f o b p c b q n l i v j b o f c l j p

## H o n q s m s C s d r

p p ` q p r j f p p f l k a b a i f k b 7	G k b 0- ) / - / /
k k l r k ` b j b k q l c p p ` q ` ` b n q k ` b 7	G i v . 2 ) / - / /
A b a i f k b c l o b o i v o b a r ` b a o b d f p p q l k 7	r d r p q 0- ) / - / /
L k p f p o b d f p p q l k 7	P b m / 0 t e l i b a v & / - / /
P v j n l p f r j p b p p f l k p 7	P b m / 1 / 2 ) / - / /

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