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Keywords: process/method, treatment, recovery, regeneration, spent ionic liquids, deactivated/partial deactivated ionic liquids, first fluid medium, solvent, hydrated ionic solids, halometallic/chloroaluminate, chloroaluminate, AlCl₃, aldehydes, ketones, methyl acetate, ethylacetate, water, dichloromethane.

Classification: B01J, B01J31/00.

Search databases: Internal Indian database, patseer, google.com, google patents.

Google/Google Patent Search: KEYWORDS COMBINATION OR OTHER ELEMENTS FEATURING THE INVENTION:

Patseer Searches:

| ID | Search Term | Dedup | Count | Date | Comments | Tags |
|------|---|-------|-------|-------------|----------|------|
| L318 | TACD:((treat* OR regenerat* OR recycl* OR separat* OR replenish*) AND (spent OR deactivated) ionic liquid* AND acetone AND water AND (AlCl3 OR aluminium chloride) AND (first fluid OR first solvent OR alcohol OR ethyl_acetate OR methyl_acetate)) AND PBD:([1900-01-01 TO 2016-12-09]) AND AC:(B01J31* OR B01J*) | ALL | 3 | 15-Feb-2018 | None | None |
| L317 | TACD:((treat* OR regenerat* OR recycl* OR separat* OR replenish*) AND (spent OR deactivated) ionic liquid* AND acetone AND water AND (AlCl3 OR aluminium chloride) AND PBD:([1900-01-01 TO 2016-12-09]) AND AC:(B01J31* OR B01J*) | ALL | 52 | 15-Feb-2018 | None | None |
| L316 | TACD:((treat* OR regenerat* OR recycl* OR separat*) AND (spent OR deactivated) ionic liquid* AND acetone AND water AND (AlCl3 OR aluminium chloride)) AND PBD:([1900-01-01 TO 2016-12-09]) AND AC:(B01J31* OR B01J*) | ALL | 52 | 15-Feb-2018 | None | None |
| L315 | TACD:((treat* OR regenerat* OR recycl* OR separat*) AND (spent OR deactivated) ionic liquid* AND acetone AND water) AND PBD:([1900-01-01 TO 2016-12-09]) AND AC:(B01J31* OR B01J*) | ALL | 66 | 15-Feb-2018 | None | None |
| L314 | TACD:((treat* OR regenerat* OR recycl* OR separat*) AND ionic liquid* AND acetone AND water) AND PBD:([1900-01-01 TO 2016-12-09]) AND AC:(B01J31* OR B01J*) | ALL | 2793 | 15-Feb-2018 | None | None |
| L313 | TACD:((treat* OR regenerat*) ionic liquid* AND acetone AND water) AND PBD:([1900-01-01 TO 2016-12-09]) AND AC:(B01J31* OR B01J*) | ALL | 118 | 15-Feb-2018 | None | None |
| L312 | TACD:((treat* OR regenerat*) ionic liquid*) AND PBD:([1900-01-01 TO 2016-12-09]) AND AC:(B01J31* OR B01J*) | ALL | 409 | 15-Feb-2018 | None | None |
| L311 | TACD:(treat* ionic liquid*) AND PBD:([1900-01-01 TO 2016-12-09]) AND AC:(B01J31* OR B01J*) | ALL | 69 | 15-Feb-2018 | None | None |
| L310 | TACD:((recov* OR regenerat* OR treat* OR separat* OR recycl*) ionic liquid* AND (spent OR deactivated) AND water AND (halometallic OR chloroaluminate) AND (first fluid OR first solvent)) AND PBD:([1900-01-01 TO 2016-12-09]) AND AC:(B01J31* OR B01J*) | ALL | 12 | 15-Feb-2018 | None | None |
| L309 | TACD:((recov* OR regenerat* OR treat* OR separat*) ionic liquid* AND (spent OR deactivated) AND water AND (halometallic OR chloroaluminate) AND (first fluid OR | ALL | 7 | 15-Feb- | None | None |

| | | | | | | |
|------|--|-----|-----|-------------|------|------|
| | first solvent)) AND PBD:([1900-01-01 TO 2016-12-09]) AND AC:(B01J31* OR B01J*) | | | 2018 | | |
| L308 | TACD:((recov* OR regenerat* OR treat* OR separat*) ionic liquid* AND (spent OR deactivated) AND water AND (halometallic OR chloroaluminate) AND (first fluid OR first solvent)) AND PBD:([1900-01-01 TO 2016-12-09]) | ALL | 8 | 15-Feb-2018 | None | None |
| L307 | TACD:((recov* OR regenerat* OR treat* OR separat*) ionic liquid* AND (spent OR deactivated) AND water AND (halometallic OR chloroaluminate) AND (acetone OR ketone) AND alcohol) AND PBD:([1900-01-01 TO 2016-12-09]) | ALL | 7 | 15-Feb-2018 | None | None |
| L306 | TACD:((recov* OR regenerat* OR treat* OR separat*) ionic liquid* AND (spent OR deactivated) AND water AND (halometallic OR chloroaluminate) AND (acetone OR ketone) AND dichloromethane AND *acetate AND alcohol) AND PBD:([1900-01-01 TO 2016-12-09]) | ALL | 3 | 15-Feb-2018 | None | None |
| L305 | TACD:((recov* OR regenerat* OR treat*) ionic liquid* AND (spent OR deactivated) AND water AND (halometallic OR chloroaluminate) AND (acetone OR ketone) AND dichloromethane AND *acetate) AND PBD:([1900-01-01 TO 2016-12-09]) | ALL | 8 | 15-Feb-2018 | None | None |
| L304 | TACD:((recov* OR regenerat* OR treat*) ionic liquid* AND (spent OR deactivated) AND water AND (halometallic OR chloroaluminate) AND (acetone OR ketone)) AND PBD:([1900-01-01 TO 2016-12-09]) | ALL | 80 | 15-Feb-2018 | None | None |
| L303 | TACD:((recov* OR regenerat* OR treat*) ionic liquid* AND (spent OR deactivated) AND water AND (halometallic OR chloroaluminate)) AND PBD:([1900-01-01 TO 2016-12-09]) | ALL | 253 | 15-Feb-2018 | None | None |
| L302 | TACD:((recov* OR regenerat* OR treat*) ionic liquid* AND (spent OR deactivated) AND water AND halometallic) AND PBD:([1900-01-01 TO 2016-12-09]) | ALL | 0 | 15-Feb-2018 | None | None |
| L301 | TACD:((recov* OR regenerat* OR treat*) ionic liquid* AND (spent OR deactivated) AND water) AND PBD:([1900-01-01 TO 2016-12-09]) | ALL | 414 | 15-Feb-2018 | None | None |
| L300 | TACD:((recov* OR regenerat* OR treat*) ionic liquid* AND (spent OR deactivated) AND PBD:([1900-01-01 TO 2016-12-09]) | ALL | 501 | 15-Feb-2018 | None | None |