

最新电化学技术应用文献摘引

Index of Recent Literatures in Electrochemical Technique and its Applications

能源的储存与转换

- 中国铅酸电池市场的发展 Z L Wang, *Journal of Power Sources* 53:2 (FEB 1995), 233~238
- 俄罗斯及CIS 其他成员国的汽车蓄电池生产——现状、问题和远景 V Soldatenko, V Gagarinov, *Journal of Power Sources* 53:2 (FEB 1995), 229~232
- 电池能量贮存系统——铅酸蓄电池兴起的市场 J F Cole, *Journal of Power Sources* 53:2 (FEB 1995), 239~243
- 电化学能源——向更洁净的未来进展:铅酸电池及其竞争 A J Appleby, *Journal of Power Sources* 53:2 (FEB 1995), 187~197
- 电动汽车电池充放电管理系统的发展 J Alzieu, P Gagnol, H Smimite, *Journal of Power Sources* 53:2 (FEB 1995), 327~333
- 高效太阳能电池展望 V K Sharma, A Colangelo, G Spagna, *Energy Conversion and Management* 36:4 (APR 1995), 239~255
- 铅钙汽车电池在实际运作中的可行性 H G Burghoff, G Richter, *Journal of Power Sources* 53:2 (FEB 1995), 343~350
- 可逆固体聚合物燃料电池(RSPFC)的电极/膜元件的进展 K Ledjeff, F Mahlendorf, V Peinecke, A Heinzl, *Electrochimica Acta* 40:3 (FEB 1995), 315~319
- 聚合物电解质燃料电池 S Gottesfeld, *Electrochimica Acta* 40:3 (FEB 1995), 283
- 聚合物燃料电池的微量铂载剂高性能电极 G S Kumar, M Raja, S Parthasarathy, *Electrochimica Acta* 40:3 (FEB 1995), 285~290
- 热塑法制造聚合物电解质燃料电池的微量载铂电极 M S Wilson, J A Valerio, S Gottesfeld, *Electrochimica Acta* 40:3 (FEB 1995), 355~363
- 建造氢能系统材料的铌 D V Schur, A A Lyashenko, V M Adejev, V B Voitovich, S Y Zaginaichenko, *International Journal of Hydrogen Energy* 20:5 (MAY 1995), 405~407
- 水溶液介质中二氧化锰可再充性——氧再生与电化学再生的组合 H Ouboumour, C Cachet, M Bode, L T Yu, *Journal of the Electrochemical Society* 142:4 (APR 1995), 1 061~1 068
- 碱性蓄电池正极材料氢氧化镍的物理和电化学特性 K Watanabe, T Kikuoka, N Kumagai, *Journal of Applied Electrochemistry* 25:3 (MAR 1995), 219~226
- 石墨的结构对二次锂电池阳极电化学特性的影响 K Tatsumi, N Iwashita, H Sakaebe, H

- Shioyama, S Higuchi, A Mabuchi, H Fujimoto, *Journal of the Electrochemical Society* 142:3 (MAR 1995), 716~720
- 2Me/THF/THF/Me-Furan/LiAsF₆电解质体系中Li 阳极的研究 D Aurbach, A Zaban, Y Gofer, O Abramson, M Benzion, *Journal of the Electrochemical Society* 142:3 (MAR 1995), 687~696
- LaNi₅型金属间化合物和硫化氢之间的相互作用 O K Alexeeva, N L Itchenko, L D Haritonova, V N Sumarokov, B L Shapir, E A Vinogradova, *International Journal of Hydrogen Energy* 20:5 (MAY 1995), 347~351
- 二次锂离子电池蒸汽生长碳纤维的阳极性能 K Tatsumi, K Zaghbi, Y Sawada, H Abe, T Ohsaki, *Journal of the Electrochemical Society* 142:4 (APR 1995), 1 090~1 096
- 用于电车、货车的改进铅酸电池的发展及其设计进展 K D Merz, J M Stevenson, *Journal of Power Sources* 53:2 (FEB 1995), 317~321
- 阀控铅酸电池分离器设计 B Culpin, *Journal of Power Sources* 53:1 (JAN 1995), 127~135
- 一种对铅酸蓄电池电动汽车监控的铅酸蓄电池模型 R Kiessling, J Mills, *Journal of Power Sources* 53:2 (FEB 1995), 339~340
- 无消耗并可改善环境控制的废弃铅酸电池再循环低温技术 Z Vaysgant, A Morachevsky, A Demidov, E Klebanov, *Journal of Power Sources* 53:2 (FEB 1995), 303~306
- 环境规范化:对蓄电池及铅工业的冲击 J R Ainley, *Journal of Power Sources* 53:2 (FEB 1995), 309~314
- 深度循环下阀控铅酸电池的充电 D Calasanzio, M Caselli, D Ghiotto, *Journal of Power Sources* 53:1 (JAN 1995), 143~147
- 一种新的高效快速充电的铅酸蓄电池 T Juergens, R F Nelson, *Journal of Power Sources* 53:2 (FEB 1995), 201~205
- 使用修饰正极活性材料的浮阀调控铅酸试验电池的性能 B Szczesniak, J Kwasnik, J D Milewski, T Pukacka, *Journal of Power Sources* 53:1 (JAN 1995), 201~205
- 铅酸电池的脉冲电流充电——一种可能克服容量过早损失的方法 L T Lam, H Ozgun, O V Lim, J A Hamilton, L H Vu, D G Vella, D A J Rand, *Journal of Power Sources* 53:2 (FEB 1995), 215~228
- 废弃铅蓄池的一种净化环境新系统应用及其发展 J Keri, J Precsko, *Journal of Power Sources* 53:2 (FEB 1995), 297~302
- 用于蓄电池板栅的三元铅、铋、锡合金的硬化处理过程 J P Hilger, *Journal of Power Sources* 53:1 (JAN 1995), 45~51

电镀与表面精饰

- 第31届航天/航空电镀和金属精饰讨论会、博览会 Tech Center, Denver, CO - Abstracts, *Plating and Surface Finishing* 82: 3 (MAR 1995), 22~24
- 铜电沉积层的初始晶化和重结晶织构关系 D N Lee, S Kang, J Yang, *Plating and Surface*

Finishing 82: 3 (MAR 1995), 76~79

化学镀铜——综述 C A Deckert, Plating and Surface Finishing 82: 3 (MAR 1995), 58~64

锌铸模上复盖锌 M Borruso, Plating and Surface Finishing 82: 3 (MAR 1995), 39

铜合金上的化学镀镍 M Borruso, Plating and Surface Finishing 82: 3 (MAR 1995), 39

二元铁族合金电沉积 K Y Sasaki, J B Talbot, Journal of the Electrochemical Society 142: 3 (MAR 1995), 775~782

费域锌合金镀讨论会 W Schobert, Plating and Surface Finishing 82: 3 (MAR 1995), 93

基底对阴极镀层的形成和生长的影响 N M Acamovic, D M Drazic, V B Miskovicstankovic, Progeress in Organic Coatings 25: 3 (MAR 1995), 293~307

Ni-PTFE 聚合物的混合电沉积 G N K R Bapu, S Mohan, Plating and Surface Finishing 82: 4 (APR 1995), 86~88

化学镀镍对30CrMoA 钢疲劳强度的影响 Y Wu, Y Zhang, M Yao, Plating and Surface Finishing 82: 4 (APR 1995), 83~85

亚硫酸氢金络合物化学镀金 H Honma, A Hasegawa, S Hotta, K Hagiwara, Plating and Surface Finishing 82: 4 (APR 1995), 89~92

氨溶液中铜或锌上镀金的电化学研究 Y C Guan, K N Han, Journal of the Electrochemical Society 142: 4 (APR 1995), 1 139~1 144

磁性薄膜Ni-Fe-Cr 合金电沉积 T M Harris, G M Whitney, I M Croll, Journal of the Electrochemical Society 142: 4 (APR 1995), 1 031~1 034

Ni/Cu 和Co/Cu 电沉积层的磁致电阻 K D Bird, M Schlesinger, Journal of the Electrochemical Society 142: 4 (APR 1995), L65~66

中性葡萄糖镀液电沉积光亮锡铅合金的性质 T Sonoda, H Nawafune, S Mizumoto, Plating and Surface Finishing 82: 3 (MAR 1995), 66~69

减缓AISI 钢和Inconel 718合金的氢吸附及氢渗入的表面处理 G Zheng, B N Popov, R E White, Journal of Applied Electrochemistry 25: 3 (MAR 1995), 212~218

电解及合成

铝合金:过去,现在和未来 N E Bagshaw, Journal of Power Sources 53: 1 (JAN 1995), 25~30

低铋铅的精炼和合铸进展 S G Hibbins, B Closset, M Bray, Journal of Power Sources 53: 1 (JAN 1995), 75~83

铬酸在水—吡啶溶液中的电还原 I G Khomchenko, I M Morozova, Russian Journal of Electrochemistry 31: 2 (FEB 1995), 189~192

ClO_4^- 离子在Rh 电极上的还原 M Wasberg, G Horanyi, Journal of Electroanalytical Chemistry 385: 1 (MAR 21 1995), 63~70

氧化氟化铈的电合成 G A Tsirlina, F M Spiridonov, O A Petrii, Russian Journal of Electrochemistry 31: 2 (FEB 1995), 203~204

甲酸在Pt/ WO_3 电极的阳极氧化 K Y Chen, P K Shen, A C C Tseung, Journal of the

Electrochemical Society 142; 4 (APR 1995), L54~L56

腐蚀与防护

SO₂和O₃对实验室铜的大气腐蚀的影响 S Zakipour, J Tidblad, C Leygraf, Journal of the Electrochemical Society 142; 3 (MAR 1995), 757~760

SO₂和NO₂的大气腐蚀效应——实验室和野外铜的腐蚀比较 J Tidblad, C Leygraf, Journal of the Electrochemical Society 142; 3 (MAR 1995), 749~756

电位循环法研究碱性溶液中不锈钢上氢氧化物膜的形成和生长 M Vukovic, Corrosion Science 37; 1 (JAN 1995), 111~120

不锈钢上氢化无定形碳膜的微孔 U Muller, R Hauert, B Oral, M Tobler, Surface & Coatings Technology 71; 3 (APR 1995), 233~238

亚硫酸氢钠溶液中无锡钢和铁的腐蚀研究比较 G Seshadri, K A Bower, R W Brooks, J A Kelber, Journal of the Electrochemical Society 142; 3 (MAR 1995), 744~748

氟化物溶液中67—33黄铜的点蚀防护及应力腐蚀开裂的临界电位测定 C K Lee, H C Shih, Journal of the Electrochemical Society 142; 3 (MAR 1995), 731~737

高温水溶液中敏化型304不锈钢应力腐蚀开裂的电流衰退测定 M P Manahan, D D Macdonald, A J Peterson, Corrosion Science 37; 1 (JAN 1995), 189~208

高温水中外加电压对敏化型316不锈钢应力腐蚀开裂的影响 J Congleton, W Yang, Corrosion Science 37; 3 (MAR 1995), 429~444

0.5 MH₂SO₄中Fe/Cr 钝化层形成的表面分析和电化学研究 S Haupt, H H Strehblow, Corrosion Science 37; 1 (JAN 1995), 43~54

混凝土中钢腐蚀研究的静态库伦法评价 G K Glass, Corrosion Science 37; 4 (APR 1995), 597~605

氧化物对铝表面钝化的影响 E J Lee, S I Pyun, Corrosion Science 37; 1 (JAN 1995), 157~168

铝隧道腐蚀的局部化学设想 R C Newman, Corrosion Science 37; 3 (MAR 1995), 527~533

1 M NaCl 溶液中钝铝的点腐蚀生长 D W Buzza, R C Alkire, Journal of the Electrochemical Society 142; 4 (APR 1995), 1104~1111

硝酸钠溶液中磷酸盐对α-黄铜应力腐蚀开裂的影响 E A Ashour, B G Ateya, Corrosion Science 37; 3 (MAR 1995), 371~380

铜在含Ca, Mg 及植物酸钠盐的家用水中的腐蚀和极化行为 T Notoya, V Otienoalego, D P Schweinsberg, Corrosion Science 37; 1 (JAN 1995), 55~65

铜在纯水水中的腐蚀析氢 G Hultquist, Corrosion Science 37; 1 (JAN 1995), U3

周期电压调制对Cu-Ni 合金腐蚀的影响 W W Qiu, M Pagano, G Zhang, S B Lalvani, Corrosion Science 37; 1 (JAN 1995), 97~100

Ag-Au 合金应力腐蚀, 1M 高氯酸溶液 I A Maier, S A Fernandez, J R Galvele, Corrosion Science 37; 1 (JAN 1995), 1~16

铅和铅合金的腐蚀、活性物质和极化条件影响 J Garcke, *Journal of Power Sources* 53: 1 (JAN 1995), 85~92

其 他

热管冷却太阳能收集器的性能试验研究 M Hammad, *Energy Conversion and Management* 36: 3 (MAR 1995), 197~203

阳极排水固体聚合物燃料电池的水处理及检测技术 H H Voss, D P Wilkinson, P G Pickup, M C Johnson, V Basura, *Electrochimica Acta* 40: 3 (FEB 1995), 321~328

稳态浓分散体系的电泳沉积: 积累机理效应 Z R Ulberg, V N Shilov, Y Y Eremova, *Progress in Organic Coatings* 25: 3 (MAR 1995), 283~292

废水处理会议热点课题 B Crowe, L Kirman, F Altmayer, T Martin, C Roy, *Plating and Surface Finishing* 82: 4 (APR 1995), 23~25

防止污染的101法 J W Dewitt, *Plating and Surface Finishing* 82: 4 (APR 1995), 33~39

聚苯胺葡萄糖氧化酶电极的生物电化学活性和抑制 S L Mu, J Q Kan, *Electrochimica Acta* 40: 2 (FEB 1995), 241~246

未来的橡胶分离器: 性能特征和选择导向 S L, Paik, G Teraghi, *Journal of Power Sources* 53: 2 (FEB 1995), 283~287

氧化物催化剂状态监控的电位传感器 P D Petrolekas, I S Metcalfe, *Journal of the Electrochemical Society* 142: 3 (MAR 1995), 952~957

粉末涂层的一种新型有机硅烷交联剂 S F Thames, K G Panjnani, S D Pace, M D Blanton, B R Cumberland, *Journal of Coatings Technology* 67: 841 (FEB 1995), 39~45

太阳能干燥器热效率研究 C Tiris, M Tiris, I Dincer, *Energy Conversion and Management* 36: 3 (MAR 1995), 205~212

核电站沸水反应器能量分析 W R Dunbar, S D Moody, N Lior, *Energy Conversion and Management* 36: 3 (MAR 1995), 149~159