

6 Referências Bibliográficas

- [1] MCCULLOCH, I; KEELING, S; MALISCHEK; STANLEY, T. **20 Years of Carbon Capture and Storage**, *Accel. Futur. Deploy*, 115, 2016.
- [2] TRANIER, J.P; DUBETTIER, R; DARDE, A; PERRIN, N. **Air Separation, flue gas compression and purification units for oxy-coal combustion systems**, *Energy Procedia*. 4, 966–971. doi:10.1016/j.egypro.2011.01.143, 2011.
- [3] SCHULZ, W; FEIGL M; DÖRFEL; NOFZ, M; KRANZMANN, A. **Influence of a sol-gel alumina coating on oxidation of X20CrMoV12-1 in air up to 650°C**, *Thin Solid Films*. 539, 29–34. doi:10.1016/j.tsf.2013.04.132, 2013.
- [4] SHEPPARD, M. **Carbon Capture and Sequestration**, 2010.
- [5] HUENERT, D; SCHULZ, W; KRANZMANN, A. **Corrosion of steels in H₂O-CO₂ atmospheres at temperatures between 500°C and 700°C** Session : ICPWS XV / 06 . *Electrochemistry and Corrosion in High Temperature Water Recommendation* : accepted for oral, 2008.
- [6] NASA. **Global Climate Change: Vital Signs of the Planet**, 2018.
- [7] DUARDO, E.L.E; ORA, S.I.L; UNIFEI, E; U. FEDERAL; NEST T. **Análise comparativa da utilização da biomassa com tecnologias convencionais de geração aplicando a eficiência ecológica**, 2004.

- [8] OLSZEWSKI, T. **Oxidation mechanisms of materials for heat exchanging components in CO₂/H₂O-containing gases relevant to oxy-fuel environments**, 211. <http://darwin.bth.rwth-aachen.de/opus3/volltexte/2012/4287/>, 2012.
- [9] STURGEON, D.W; CAMERON, E.D; FITZGERALD, F.D. **Demonstration of an oxyfuel combustion system**, Energy Procedia. 1, 471–478. doi:10.1016/j.egypro.2009.01.063, 2009.
- [10] COELHO, D.M. **Corrosão De Aços a 600°C Em Condições Simples E Dupla Utilizando Atmosferas Oxyfuel Steel Corrosion At 600°C in Single and Dual**, 105–111, 2014.
- [11] HERZOG, H. **Carbon dioxide capture and storage**, MRS Bull. 33 303–305. doi:10.1038/kisup.2012.51, 2008.
- [12] SHEPPARD, M. **Carbon capture and sequestration.**, Science. 325, 1599. doi:10.1126/science.1181637,2009.
- [13] COELHO, D.M. **High temperature corrosion of steels in single and dual conditions using atmospheres related to the oxyfuel process**,1–166, 2014.
- [14] BLASIAK, W; YANG, W.H; NARAYANAN, K; VON SCHÉELE, J. **Flameless oxyfuel combustion for fuel consumption and nitrogen oxides emissions reductions and productivity increase**, J. Energy Inst. 80, 3–11. doi:10.1179/174602207X174379, 2007.
- [15] TRANIER, J.P; DUBETTIER, R; PERRIN, N, **Air Liquide, Air Separation Unit for Oxy-Coal Combustion Systems**, 1st Int. Oxyfuel Combust. Conf, 2009.
- [16] STANGER, R; WALL, T; SPÖRL, R; PANERU, M; GRATHWOHL,S; M; WEIDMANN G. **Oxyfuel combustion for CO₂capture in power**

- plants**, Int. J. Greenh. Gas Control. 40, 55–125. doi:10.1016/j.ijggc.2015.06.010,2015.
- [17] MARTÍNEZ A; CHACÓN, J.G; TIBURCIO, C; ALMERAYA, F.M; CLADERÓN, J.G. **Oxidación en Alta Temperatura, Técnicas Electroquím.** Para El Estud. La Corros,1–68, 2002.
- [18] KIM, M.J; LEE, D.B.**High-temperature corrosion of aluminized and chromized Fe-10.4%Cr steels in N₂/H₂S/H₂O-mixed gas**, Mater. Corros. 67, 810–816. doi:10.1002/maco.201508638, 2016.
- [19] Y. XU, H. XIA, F. GUAN, P. LIU, J. HE, G. ZHAO, X. MAO, B. HAN. **High Temperature Oxidation Kinetics of Alloy Steel in Multi-component Gases Considering Industrial Steel Heating Furnace Atmosphere**, 2016.
- [20] YOUNG, D.J. **High temperature oxidation and corrosion of metals**, 1 ed, Elsevier, Amsterdam, ISBN 9780080445878, 2008.
- [21] BIRKS, N; MEIER, G.H; PETTIT, F. S. **Introduction to the High Temperature Oxidation of Metals**, 2nd Editio, ISBN 9780521485173, New York, 2006.
- [22] CALLISTER, W.D, **Materials science and engineering: An introduction** (8th edition), Mater. Des. 12, 59. doi:10.1016/0261-3069(91)90101-9, 2009.
- [23] YE, Z; WANG, P; DONG, H; LI, D; ZHANG, Y; LI, Y. **Oxidation mechanism of T91 steel in liquid lead-bismuth eutectic: With consideration of internal oxidation**, Sci. Rep. 6, 2–11. doi:10.1038/srep35268, 2016.
- [24] PEÑA, D.Y; VÁSQUEZ C; LAVERDE, D; SERNA A. **Corrosión a temperatura alta del acero ferrítico 9Cr-1Mo modificado P91, en**

atmósferas simuladas oxidantes-carburantes, Rev. Metal. 48, 97–106. doi:10.3989/revmetalm.1139, 2012.

- [25] Wollschläger, N; Nofz, M; Dörfel, I; Schulz, W; Sojref, R; Kranzmann, A. **Exposition of sol-gel alumina-coated P92 steel to flue gas : Time-resolved microstructure evolution , defect tolerance , and repairing of the coating**, 1–11. doi:10.1002/maco.201709712, 2017.
- [26] CARNEIRO, J.F; **Estudo da Oxidação de Ligas Fe-Cr a Altas Temperaturas**", Rede temática em engenharia de materiais, 2011.
- [27] GOLDSCHMIDT, A; STREITBERGER, H.J. **Basics of coating technology**, 2nd revise, Münster/Germany, 2007.
- [28] MORAIS E.A. **Incorporação de Er em SnO₂ obtido via sol-gel: uma análise de xerogéis e filmes finos**, Universidade de São Paulo, 2002.
- [29] HÜBERT, T; SVOBODA, S; OERTEL, B. **Wear resistant alumina coatings produced by a sol-gel process**, Surf. Coatings Technol. 201, 487–491. doi:10.1016/j.surfcoat.2005.11.014, 2006.
- [30] Emigdio, C.G.M. **Sol-Gel coatings deposited on stainless steels alloys review**, Universidad Nacional de Colombia sede Medellín, doi:2346-2183, 2007.
- [31] RUHI, G; MODI, O.P; JHA, A.K; SINGH, I.B. **Characterization of corrosion resistance properties of sol-gel alumina coating in mine water environment**, Indian J. Chem. Technol. 16, 216–220, 2009.
- [32] A. PFENNIG, A; SCHULZ, S; KRANZMANN, A. **Influence of pressure, CO₂ and chromium-content of injection pipe steels on the reliability of a saline aquifer water CCS-site in the Northern**

- German Basin**, Energy Procedia. 37, 5754–5763. doi:10.1016/j.egypro.2013.06.498, 2013.
- [33] YU, C; NGUYEN, T.D; ZHANG, J; YOUNG, D.J. **Corrosion of Fe–9Cr–(Mn, Si) alloys in CO₂–H₂O–SO₂ gases**, Corros. Sci. 98, 516–529. doi:10.1016/j.corsci.2015.05.040, 2015.
- [34] NGUYEN, T.D; ZHANG, J; YOUNG, D.J. **Effect of Mn on oxide formation by Fe-Cr and Fe-Cr-Ni alloys in dry and wet CO₂ gases at 650°C**, Corros. Sci. 112, 110–127. doi:10.1016/j.corsci.2016.07.014, 2016.
- [35] NOFZ, M; DÖRFEL, I; SOJREF, R; WOLLSCHLÄGER, N; MOSQUERA-FEIJOO, M; SCHULZ, W; KRANZMANN, A. **Thin Sol-Gel Alumina Coating as Protection of a 9% Cr Steel Against Flue Gas Corrosion at 650°C**, Oxid. Met. 1–18. doi:10.1007/s11085-017-9799-0, 2017.
- [36] CHANDRA, K; KRANZMANN, A; NEUMANN, R.S; ODER, G; RIZZO, F. **High Temperature Oxidation Behavior of 9–12 % Cr Ferritic/Martensitic Steels in a Simulated Dry Oxyfuel Environment**, Oxid. Met. 83, 291–316. doi:10.1007/s11085-014-9521-4, 2015.
- [37] STEIN-BRZOZOWSKA, G; NORLING, R; VIKLUND, P; MAIER, J; SCHEFFKNECHT, G. **Fireside corrosion during oxyfuel combustion considering various SO₂ contents**, Energy Procedia. 51, 135–147. doi:10.1016/j.egypro.2014.07.015, 2013.
- [38] CHANDRA, K; KRANZMANN, A; NEUMANN, R.S; RIZZO, F. **Comparative Study on High Temperature Oxidation of T92 Steel in Dry and Wet Oxyfuel Environments**, Oxid. Met. 84, 463–490. doi:10.1007/s11085-015-9565-0, 2015.

- [39] VALADAO, A; VALADAO; CARDOSO I, ARAÚJO,L. **Ciência dos materiais multimídia**,<http://www.cienciasdosmateriais.org/index.php?acao=exibir&cap=21&top=140>, 2005.
- [40] DEPEC, **Minério de Ferro**,
https://www.economiaemdia.com.br/EconomiaEmDia/pdf/infset_minerio_de_ferro, 2017.
- [41] SAUNDERS, S.R.J; MONTEIRO,M; RIZZO, F. **The oxidation behaviour of metals and alloys at high temperatures in atmospheres containing water vapour: A review**, Prog. Mater. Sci. 53 (2008) 775–837. doi:10.1016/j.pmatsci.2007.11.001, 2008.
- [42] EHLERS, R; **Oxidation von ferritischen 9-12% Cr-Stählen in wasserdampfhaltigen Atmosphären bei 550 bis 650°C**,
<http://134.130.184.8/opus/volltexte/2001/95/>, 2000.
- [43] OLIVARES, R.I; YOUNG,D.J; MARVIG,P; STEIN, W. **Alloys SS316 and Hastelloy-C276 in Supercritical CO₂ at High Temperature**, Oxid. Met. 84 (2015) 585–606. doi:10.1007/s11085-015-9589-5, 2015.
- [44] HUENERT, D; SCHULZ, W; KRANZMANN, A. **Carburization and Oxidation of Power Plant Steels under Oxyfuel-Conditions**, 327727. 2009.
- [45] TAYLOR, M.R; CALVERT, J.M; LEES , D.G; MEADOWCROFT, D.B. **The mechanism of corrosion of Fe-9% Cr alloys in carbon-dioxide**, Oxid. Met. 14 499–516, 1980.
- [46] PIRÓN, J; OLSZEWSKI, T; PENKALLA, H.J; MEIER, G.H; SINGHEISER , L; QUADAKKERS , W.J. **The oxidation behaviour of the 9 % Cr steel P92 in CO₂ - and H₂O-rich gases relevant to oxyfuel environments**, Int. J. Mater. Res. 101, 287–299.

doi:10.3139/146.11027, 2010.

- [47] COSTA E SILVA A; COELHO, D.M; KRANZMANN, A; RIZZO, F. **Simulation of Fe-Cr-X Alloy Exposed to an Oxyfuel Combustion Atmosphere at 600 °C**, J. Phase Equilibria Diffus. 37, 19–24. doi:10.1007/s11669-015-0421-3, 2016.
- [48] PIRÓN, J; OLSZEWSKI, T; PENKALLA, H.J; MEIER, G.H; SINGHEISER, L; QUADAKKERS, W.J. **Scale formation mechanisms of martensitic steels in high CO₂/H₂O-containing gases simulating oxyfuel environments**, Mater. High Temp. 26 63–72. doi:10.3184/096034009X438185, 2009.
- [49] NOFZ, M; DÖRFEL I; SOJREF, R; WOLLSCHLÄGER, N; MOSQUERA-FEIJOO, M; KRANZMANN, A **Microstructure, smoothening effect, and local defects of alumina sol-gel coatings on ground steel**, J. Sol-Gel Sci. Technol. 81 (2017) 185–194. doi:10.1007/s10971-016-4188-8, 2017.