

NÚMERO	PUBLICAÇÕES - PROFESSOR ALOÍSIO NELMO KLEIN
1	NEVES, G. O. ; TIROLLO, H. G. ; PROBST, S. M. H. ; Binder, C. ; Klein, A. N. . Application of computational thermodynamics to Fe/Ni, Fe-3%Si/Ni and 316L/Ni systems produced by powder metallurgy. <i>POWDER METALLURGY</i> , v. 10, p. 1-8, 2017.
2	GIACOMELLI, RENAN OSS ; SALVARO, DIEGO BERTI ; BENDO, TATIANA ; Binder, Cristiano ; KLEIN, ALOISIO NELMO ; DE MELLO, JOSE DANIEL BIASOLI . Topography evolution and friction coefficient of gray and nodular cast irons with duplex plasma nitrided + DLC coating. <i>SURFACE & COATINGS TECHNOLOGY</i> , v. 314, p. 18-27, 2017.
3	FURLAN, KALINE PAGNAN ; DA COSTA GONÇALVES, PRISCILA ; CONSONI, DEISE REBELO ; DIAS, MATHEUS VINÍCIUS GOUVÉA ; DE LIMA, GABRIEL ARAÚJO ; DE MELLO, JOSÉ DANIEL BIASOLI ; KLEIN, ALOISIO NELMO . Metallurgical Aspects of Self-lubricating Composites Containing Graphite and MoS ₂ . <i>JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE</i> , v. 26, p. 1135-1145, 2017.
4	AGUILAR, C. ; ARAYA, N. ; Klein, A. N. ; CARDOSO-GIL, R. ; VARGAS, P. . Novel route to synthesize metallic alloys by applying low energy centrifugal field. <i>PHYSICA STATUS SOLIDI B-BASIC SOLID STATE PHYSICS</i> , v. 37, p. 1600641, 2017.
5	FERNANDES, MARIA ROSEANE P. ; MARTINELLI, ANTONIO EDUARDO ; KLEIN, ALOISIO NELMO ; HAMMES, GISELE ; Binder, Cristiano ; NASCIMENTO, RUBENS M. . Production of nickel matrix composites reinforced with carbide particles by granulation of fine powders and mechanical pressing. <i>Powder Technology (Print)</i> , v. 305, p. 673-678, 2016.
6	LOURENÇO, JORGE M. ; SUN, SHI DA ; SHARP, KHAN ; LUZIN, VLADIMIR ; Klein, Aloisio N. ; WANG, CHUN H. ; BRANDT, MILAN . Fatigue and fracture behavior of laser clad repair of AerMet® 100 ultra-high strength steel. <i>International Journal of Fatigue</i> , , v. 85, p. 18-30, 2016.
7	VIEIRA JUNIOR, LUIZ ELOI ; KLEINJOHANN, KEILA CHRISTINA ; RODRIGUES NETO, JOÃO BATISTA ; Klein, Aloísio Nelmo ; HOTZA, DACHAMIR ; MORENO, RODRIGO . Dip coating of a carbon steel sheet with Ni reinforced TiO ₂ nanoparticles. <i>Materials Research (São Carlos. On-line)</i> , v. 19, p. 648-653, 2016.
8	Bendo, T. ; MALISKA, A.M. ; ACUÑA, J.J.S. ; Binder, C. ; Hammes, G. ; CONSONI, D.R. ; KLEIN, A.N. . The effect of Mo on the characteristics of a plasma nitrided layer of sintered iron. <i>Applied Surface Science</i> , , v. 363, p. 29-36, 2016.
9	SEIFERT, MARTIN ; GONÇALVES, PRISCILA ; JUSTUS, TERCIUS ; MARTINS, NILDA ; Klein, Aloisio N. ; MOTZ, GÜNTER . A novel approach to develop composite ceramics based on active filler loaded precursor employing plasma assisted pyrolysis. <i>Materials & Design</i> , v. 89, p. 893-900, 2016.
10	SALVARO, DIEGO BERTI ; SILVÉRIO, MÁRCIO ; Binder, Cristiano ; GIACOMELLI, RENAN OSS ; KLEIN, ALOISIO NELMO ; DE MELLO, JOSÉ DANIEL BIASOLI . Genesis and stability of tribolayers in solid lubrication: case of pair DLC-stainless steel. <i>Journal of Materials Research and Technology</i> , v. 5, p. 136-146, 2016.
11	SHIOGA, PEDRO HENRIQUE TESHIMA ; Binder, Cristiano ; HAMMES, GISELE ; KLEIN, ALOISIO NELMO ; MELLO, JOSE DANIEL BIASOLI DE . Effects of Different Plasma Nitrided Layers on the Tribological Performance of DLC Coatings. <i>Materials Research (São Carlos. On-line)</i> , v. 0455, p. 01-09, 2016.
12	Binder, C. ; Bendo, T. ; PEREIRA, R. V. ; Hammes, G. ; de Mello, J. D. B. ; Klein, A. N. . Influence of the SiC content and sintering temperature on the microstructure, mechanical properties and friction behaviour of sintered self-lubricating composites. <i>POWDER METALLURGY</i> , , v. 1, p. 1-10, 2016.
13	VIEIRA JUNIOR, LUIZ ELOI ; RODRIGUES NETO, JOÃO BATISTA ; Klein, Aloísio Nelmo ; HOTZA, DACHAMIR ; MORENO, RODRIGO . Produção e caracterização de uma liga Fe-Ni obtida por processamento coloidal aquoso e reação de estado sólido. <i>Matéria (UFRJ)</i> , , v. 21, p. 921-929, 2016.
14	DAMIN, KELI VANESSA SALVADOR ; LAMIM, THIAGO DE SOUZA ; CAVILHA NETO, FRANCISCO ; Binder, Cristiano ; KLEIN, ALOISIO NELMO ; MALISKA, ANA MARIA . AISI 1005 Steel Plasma Treated by Different Thermochemical Surface Treatments. <i>Materials Research (São Carlos. On-line)</i> , v. 19, p. 1049-1056, 2016.
15	BARBOSA, M.V ; Hammes, G. ; Binder, C. ; KLEIN, A.N. ; De Mello, J.D.B. . Physicochemical characterisation of tribolayers by micro-Raman and GDOES analyses. <i>Tribology International</i> , v. 81, p. 223-230, 2015.
16	TONTINI, G. ; KOCH, A. ; SCHMACHTERNBERG, V.A.V. ; Binder, C. ; KLEIN, A.N. ; Drago, V.. Synthesis and magnetic properties of nickel micro urchins. <i>Materials Research Bulletin</i> , , v. 61, p. 177-182, 2015.

- 17 Binder, C. ; Bendo, T. ; Hammes, G. ; **KLEIN, A.N.** ; De Mello, J.D.B. . Effect of nature of nitride phases on sliding wear of plasma nitrided sintered iron. *Wear (Lausanne)*, , v. 332-333, p. 995-1005, 2015.
- 18 LAMIM, THIAGO DE SOUZA ; BENARDELLI, EUCLIDES ALEXANDRE ; Binder, Cristiano ; **KLEIN, ALOISIO NELMO** ; MALISKA, ANA MARIA . Plasma Carburizing of Sintered Pure Iron at Low Temperature. *Materials Research (São Carlos. Impresso)*, v. 18, p. 320-327, 2015.
- 19 RZATKI, F.D. ; BARBOZA, D.V.D. ; SCHROEDER, R.M. ; BARRA, G.M. DE O. ; Binder, C. ; **KLEIN, A.N.** ; De Mello, J.D.B. . Effect of surface finishing, temperature and chemical ageing on the tribological behaviour of a polyether ether ketone composite/52100 pair. *Wear (Lausanne)*, v. 332-333, p. 844-854, 2015.
- 20 FURLAN, KALINE PAGNAN ; PRATES, PATRICIA BODANESE ; ANDREA DOS SANTOS, THAYNA ; GOUVÉA DIAS, MATHEUS VINÍCIUS ; FERREIRA, HEITOR TAVARES ; RODRIGUES NETO, JOÃO BATISTA ; **KLEIN, ALOISIO NELMO** . Influence of alloying elements on the sintering thermodynamics, microstructure and properties of Fe-MoS₂ composites. *Journal of Alloys and Compounds*, v. 652, p. 450-458, 2015.
- 21 CAMPOS, K.R. ; KAPSA, P. ; Binder, C. ; **KLEIN, A.N.** ; De Mello, J.D.B. . Tribological evaluation of self-lubricating sintered steels. *Wear (Lausanne)*, v. 332-333, p. 932-940, 2015.
- 22 Schroeder, Renan ; RAMOS FILHO, ANTONIO ITAMAR ; Binder, Cristiano ; **KLEIN, ALOISIO NELMO** . Adjusting the Sintering Cycle of a Hadfield Sintered Steel Produced by Metal Injection Molding. *Materials Research (São Carlos. On-line)*, v. 18, p. 83-90, 2015.
- 23 HAMMES, GISELE ; Schroeder, Renan ; Binder, Cristiano ; Klein, Aloisio N. ; DE MELLO, JOSE DANIEL B. . Effect of double pressing/double sintering on the sliding wear of self-lubricating sintered composites. *Tribology International*, , v. 70, p. 119-127, 2014.
- 24 VIEIRA, LUIZ E. ; Rodrigues Neto, João B. ; **KLEIN, ALOÍSIO N.** ; HOTZA, DACHAMIR ; MORENO, RODRIGO . Colloidal processing of highly concentrated aqueous copper suspensions. *Powder Technology (Print)*, v. 256, p. 540-544, 2014.
- 25 MENDES, AÉRCIO FERNANDO ; SCHEUER, CRISTIANO JOSÉ ; JOANIDIS, IOANIS LABHARDT ; CARDOSO, RODRIGO PERITO ; MAFRA, MÁRCIO ; Klein, Aloísio Nelmo ; BRUNATTO, SILVIO FRANCISCO . Low-temperature plasma nitriding of sintered PIM 316L austenitic stainless steel. *Materials Research (São Carlos. Impresso)*, v. 17, p. 100-109, 2014.
- 26 PARUCKER, MOISÉS LUIZ ; **KLEIN, ALOISIO NELMO** ; BINDER, ROBERTO . Desenvolvimento de liga sinterizada de níquel por moldagem de pó por injeção. *Materia (UFRJ)*, v. 19, p. 218-227, 2014.
- 27 Bendo, T. ; MALISKA, A.M. ; ACUÑA, J.J.S. ; Binder, C. ; DEMETRIO, K.B. ; **KLEIN, A.N.** . Nitriding of surface mo-enriched sintered iron: Structure and morphology of compound layer. *Surface & Coatings Technology*, v. 258, p. 368-373, 2014.
- 28 HAMMES, GISELE ; DA COSTA GONÇALVES, PRISCILA ; Binder, Cristiano ; FURLAN, KALINE PAGNAN ; **KLEIN, ALOISIO NELMO** . Fe-hBN Composites Produced by Double Pressing and Double Sintering. *Materials Science Forum (Online)*, v. 802, p. 311-316, 2014.
- 29 BRUNATTO, SILVIO FRANCISCO ; MEIER, ALISSON ; HENKE, SÉRGIO ; Binder, Cristiano ; Klein, Aloísio Nelmo . Plasma Sintering-Carburizing of 410 LHC Steel in Carbon Containing Atmosphere. *Materials Science Forum (Online)*, v. 802, p. 353-358, 2014.
- 30 FURLAN, KALINE PAGNAN ; DE ASSUNÇÃO, JULIA ZIMMERMANN ; PAZ, GUSTAVO ; Binder, Cristiano ; **KLEIN, ALOISIO NELMO** . Sintering Studies and Microstructural Evolution of Fe-MoS₂ Mixtures. *Materials Science Forum (Online)*, v. 802, p. 415-420, 2014.
- 31 RAMOS FILHO, ANTONIO ITAMAR ; Schroeder, Renan ; Binder, Cristiano ; Klein, Aloisio N. . Development of Fe-P Matrix Composites Containing Embedded Solid Lubricants. *Materials Science Forum (Online)*, v. 802, p. 96-101, 2014.
- 32 PARUCKER, M.L. ; **KLEIN, A.N.** ; Binder, R. . Influence of phosphorus on the development of nickel alloy/h-BN-based self-lubricating composites processed by powder metallurgy. *Composite Interfaces*, v. 22, p. 85-94, 2014.
- 33 Klein, Aloisio N. ; FURLAN, KALINE P. ; SCHROEDER, RENAN M. ; HAMMES, GISELE ; Binder, Cristiano ; RODRIGUES NETO, JOAO B. ; PROBST, SONIA H. ; DE MELLO, JOSÉ DANIEL B. . Thermodynamic aspects during the processing of sintered materials. *Powder Technology (Print)*, , v. 271, p. 193-203, 2014.
- 34 LUSSOLI, ROSINEIDE J. ; NETO, JOÃO B. RODRIGUES ; **KLEIN, ALOÍSIO N.** ; HOTZA, DACHAMIR ; MORENO, RODRIGO . Aqueous colloidal processing of carriers for delivering silica nanoparticles in iron matrix nanocomposites. *Materials Research Bulletin*

- 35 , v. 48, p. 2430-2436, 2013.
- 36 BERNARDELLI, EUCLIDES ALEXANDRE ; MAFRA, MARCIO ; MALISKA, ANA MARIA ; BELMONTE, THIERRY ; KLEIN, ALOISIO NELMO . Influence of neutral and charged species on the plasma degradation of the stearic acid. Materials Research (São Carlos. Impresso)
- 37 , v. 16, p. 385-391, 2013.
- 38 SCHROEDER, R. ; TORRES, F.W. ; BINDER, C. ; **A. N. Klein** ; De Mello, JDB ; De Mello, J.D.B. . Failure mode in sliding wear of PEEK based composites. Wear (Lausanne)
- 39 , v. 301, p. 717-726, 2013.
- 40 A. N. Klein; CARDOSO, R. P. ; PAVANATI, H. C. ; BINDER, C. ; MALISKA, A. M. ; HAMMES, G. ; FUSAO, D. ; SEEBER, A. ; BRUNATTO, S. F. ; MUZART, J. L. R. . DC Plasma Technology Applied to Powder Metallurgy: an Overview. *Plasma Science & Technology*, v. 15, p. 70-81, 2013.
- 41 DEMÉTRIO, KÉTNER BENDO ; KLEIN, ALOISIO NELMO ; SCHAEFFER, LIRIO ; CONSONI, DEISE REBELO ; MARTINELLI, ANTONIO EDUARDO ; BENDO, TATIANA . Sinterability and microstructure evolution during sintering of ferrous powder mixtures. Materials Research (São Carlos. Impresso), v. 16(5), p. 1030-1038, 2013.
- 42 FURLAN, K. P. ; Klein, A. N. ; Hotza, D. . Diamond-like carbon films deposited by hydrocarbon plasma sources.. *Reviews on Advanced Materials Science (Online)*, v. 34, p. 165-172, 2013.
- 43 HEITICH, L. V. ; PASSOS, J. C. ; CARDOSO, E. M. ; SILVA, M. F. ; Klein, A. N. . Nucleate boiling of water using nanostructured surfaces. *Journal of the Brazilian Society of Mechanical Sciences and Engineering (Impresso)*, v. 36, p. 181-192, 2013.
- 44 PARUCKER, MOISÉS LUIZ ; KLEIN, ALOISIO NELMO ; Binder, Cristiano ; RISTOW JUNIOR, WALTER ; BINDER, ROBERTO . Development of self-lubricating composite materials of nickel with molybdenum disulfide, graphite and hexagonal boron nitride processed by powder metallurgy: preliminary study. Materials Research (São Carlos. Impresso), v. 17, p. 180-185, 2013.
- 45 SCHROEDER, R. ; Schroeder, Renan ; Klein, A. N. ; Ramos Filho, A. I. ; Binder, Cristiano . Powder Injection Molding of Multimaterial Parts - Self Lubricating Steel Combined with Plain-Carbon Steel. *Materials Science Forum (Online)*, v. 727-728, p. 243-247, 2012.
- 46 GARCIA, D. E. ; **A. N. Klein** ; Hotza, D. ; Hotza, D. . Advanced ceramics with dense and fine-grained microstructures through fast firing. *Reviews on Advanced Materials Science (Online)*, v. 30, p. 273-281, 2012.
- 47 A. N. Klein; VIEIRA JUNIOR, L. E. ; Rodrigues Neto, João B. ; Hotza, D. ; Moreno, R. . Effect of Mechanical Activation on Microstructure and Mechanical Properties of Aqueous Colloidal Processed Nickel Metal Matrix Nanocomposites. *Materials Science Forum (Online)*, v. 727-728, p. 195-199, 2012.
- 48 FURLAN, K. P. ; BINDER, C. ; Klein, A. N. ; De Mello, JDB . Thermal Stability of the MoS₂ Phase in Injection Moulded 17-4 PH Stainless Steel. *Journal of Materials Research and Technology*, v. 1, p. 134-140, 2012.
- 49 Vieira Junior, L. E. ; Rodrigues Neto, J. B. ; Klein, A. N. ou Klein, Aloisio N. ; Moreno, R. ; Hotza, D. . Rheological and Structural Characterization of Ni-SiO₂ Nanocomposites Produced by Aqueous Colloidal Processing. *Journal of the American Ceramic Society*, v. b, p. n/a-n/a, 2011.
- 50 de Mello, J. D. B. ; Binder, C. ; Binder, R. ; Klein, A. N. ou Klein, Aloisio N. ; Klein, A. N. . Effect of precursor content and sintering temperature on the scuffing resistance of sintered self lubricating steel. *Wear (Lausanne)*, v. 271, p. 1862-1867, 2011.
- 51 Bendo, T. ; Pavanati, H.C. ; Klein, A. N. ou Klein, Aloisio N. ; Martinelli, A. E. ; Maliska, A. M. . Plasma Nitriding of Surface Mo-Enriched Sintered Iron. *ISRN Materials Science*, v. 2011, p. 1-8, 2011.
- 52 Schroeder, R. ; Hammes, G. ; Binder, C. ; Klein, A. N. ou Klein, Aloisio N. ; Klein, Aloisio Nelmo . Plasma debinding and sintering of metal injection moulded 17-4PH stainless steel. *Materials Research (São Carlos. Impresso)*, v. 14, p. 564-568, 2011.
- 53 Bernardelli, E.A. ; Souza, T. ; Mafra, M. ; Maliska, A. M. ; Belmonte, T. ; Klein, A. N. ou Klein, Aloisio N. . Modification of stearic acid in Ar and Ar-O₂ pulsed DC discharge. *Materials Research (São Carlos. Impresso)*, v. 14, p. 519-523, 2011.

- 54 Alamin, M.F. ; da Silva, R.C. ; Zoldan, V.C. ; Isoppo, E.A. ; Filho, U.P. Rodrigues ; Reis, F.D.A. Aarão ; Klein, A. N. ou Klein, Aloisio N. ; Pasa, A. A. . Normal versus anomalous roughening in electrodeposited Prussian Blue layers. *Electrochemistry Communications*, v. 13, p. 1455-1458, 2011.
- 55 A. N. Klein; Martinelli, A. E. ; Nascimento, R. M. . Microstructural characterization of conventionally and plasma-sintered Fe-NbC and Fe-TaC composites. *International Journal of Powder Metallurgy* (1986), v. 47, p. 29-37, 2011.
- 56 CORREA, E. O. ; Edmilson O. Correa ; SANTOS, J. N. ; Klein, A. N. . Microstructure and Mechanical Properties of WC-Ni-Al cemented carbides for Engineering Applications. *International Journal of Materials Research*, v. 102, p. 1369-1373, 2011.
- 57 Seeber, A. ; Klein, A. N. ou Klein, Aloisio N. ; Speller, C. V. ; Egert, P. ; Weber, F. A. ; Lago, A. . Sintering unalloyed titanium in DC electrical abnormal glow discharge. *Materials Research* (São Carlos. Impresso), v. 13, p. 99-106, 2010
- 58 Correa, E.O. ; Santos, J. N. ; Klein, A. N. ou Klein, Aloisio N. . Microstructure and mechanical properties of WC Ni Si based cemented carbides developed by powder metallurgy. *International Journal of Refractory & Hard Metals* (Cessou em 1988. Cont. 0958-0611 International Journal of Refractory Metals & Hard Materials), v. 28, p. 572-575, 2010.
- 59 Santos, J. N. ; Correa, E. O. ; Klein, A. N. ou Klein, Aloisio N. ; Klein, A. N. . DESENVOLVIMENTO DE METAIS DUROS WC-Ni-Si PARA APLICAÇÕES DE ENGENHARIA. *Tecnologia em Metalurgia Materiais e Mineração*, v. 6, p. 162-166, 2010.
- 60 Binder, C. ; Hammes, G. ; Schroeder, R. ; Klein, A. N. ou Klein, Aloisio N. ; de Mello, J. D. B. ; Binder, R. ; Ristow Jr., W. . `Fine tuned steels point the way to a focused future. *Metal Powder Report*, v. 65, p. 29-37, 2010.
- 61 de Mello, J. D. B. ; Binder, C. ; Binder, R. ; Klein, A. N. ou Klein, Aloisio N. ; Klein, A. N. . Effect of nature of nitride phases on microabrasion of plasma nitrided sintered iron. *Tribology* (Leeds. Print), v. 4, p. 191-196, 2010.
- 62 Schroeder, R. ; Klein, A. N. ou Klein, Aloisio N. ; Klein, Aloisio N. ; Binder, C. ; de Mello, J. D. B. . Internal lubricant as an alternative to coating steels. *Metal Powder Report*, v. 65, p. 24-31, 2010.
- 63 Vieira Jr., L. E. ; Rodrigues Neto, J. B. ; Klein, A. N. ; Hotza, D. . Compósitos de matriz metálica reforçados pela dispersão de partículas cerâmicas produzidos por mecanossíntese: uma revisão. *Exacta* (São Paulo. Impresso), v. 7, p. 13-22, 2009.
- 64 Lourenço, J. M. ; Maliska, A. M. ; Klein, A. N. ou Klein, Aloisio N. . The Effect of Pulse and Voltage on Unalloyed Iron Surface During Sintering on the Cathode of Glow Discharge.. *Revista Brasileira de Aplicações de Vácuo* (Impresso), v. 28, p. 59-64, 2009.
- 65 Pavanati, H.C. ; Straffelini, G. ; Maliska, A. M. ; Klein, A. N. ou Klein, Aloisio N. . Microstructural and mechanical characterization of iron samples sintered in DC plasma. *Materials Science & Engineering. A. Structural Materials: Properties, Microstructure and Processing*, v. 474, p. 15-23, 2008.
- 66 Alqureshi, H. A. ; Soares, M. R. F. ; Hotza, D. ; Alves, M. K. ; Klein, A. N. ou Klein, Aloisio N. . Analyses of the fundamental parameters of cold die compaction of powder metallurgy. *Journal of Materials Processing Technology*, v. 199, p. 417-424, 2008.
- 67 Bernardi, C. ; Drago, V. ; Bernardo, F. L. ; Girardi, D. ; Klein, A. N. ou Klein, Aloisio N. . Production and characterization of sub micrometer hollow Ni?P spheres by chemical reduction: the influence of pH and amphiphilic concentration. *Journal of Materials Science*, v. 43, p. 469-474, 2008.
- 68 Brunatto, S. F. ; Klein, A. N. ou Klein, Aloisio N. ; Muzart, J. L. R. . Hollow cathode discharge: application of a deposition treatment in the iron sintering. *Journal of the Brazilian Society of Mechanical Sciences and Engineering* (Impresso), v. 30, p. 145-151, 2008.
- 69 Montedo, O. R. K. ; Bertan, F. M. ; Piccoli, R. ; Hotza, D. ; Klein, A. N. ; Oliveira, A. P. N. . Low Thermal Expansion Sintered LZSA Glass-Ceramics. *American Ceramic Society Bulletin*, v. 87, p. 34-40, 2008.
- 70 Silveira, W. ; Wendhausen, P. A. P. ; Klein, A. N. ou Klein, Aloisio N. . Study of the Debinding Rate on MIM Parts Using Plasma Assisted Debinding. *Materials Science Forum* (Online), v. 591-593, p. 229-234, 2008.
- 71 Lourenço, J. M. ; Pavanati, H.C. ; Maliska, A. M. ; Klein, A. N. . Plasma sintering of unalloyed iron: Influence of electrode geometry.. *Revista Brasileira de Aplicações de Vácuo* (Impresso), v. 27, p. 205-210, 2008.
- 72 Pavanati, H.C. ; Straffelini, G. ; Maliska, A. M. ; Klein, A. N. ; Klein, A. N. ou Klein, Aloisio N. ; Klein, A. N. . Dry sliding of plasma-sintered iron The influence of nitriding on wear resistance. *Wear* (Lausanne), v. 265, p. 301-310, 2008.

- 73 Pavanati, H.C. ; Maliska, A. M. ; Muzart, J. L. R. ; Klein, A. N. ou Klein, Aloisio N. ; A. N. Klein . Comparative study of porosity and pores morphology of unalloyed iron sintered in furnace and plasma reactor. Materials Research (São Carlos. Impresso), v. 10, p. 87-93, 2007.
- 74 Lourenço, J. M. ; Maliska, A. M. ; Klein, A. N. ou Klein, Aloisio N. ; Muzart, J. L. R. . Ferrite stabilization induced by molybdenum enrichment in the surface of unalloyed iron sintered in an abnormal glow discharge. Applied Surface Science, v. 253, p. 9105-9111, 2007.
- 75 Marchiori, R. ; Maliska, A. M. ; Borges, P. C. ; Klein, A. N. ; Muzart, J. L. R. ; Klein, A. N. ou Klein, Aloisio N. ; Klein, A. N. . Corrosion study of plasma sintered unalloyed iron: The influence of porosity sealing and Ni surface enrichment. Materials Science & Engineering. A, Structural Materials: properties, microstructure and processing, v. 467, p. 159-164, 2007.
- 76 Consoni, D. R. ; Binder, C. ; Pavanati, H.C. ; de Mello, J. D. B. ; Klein, A. N. . Estudo da porosidade superficial e do comportamento tribológico de amostras de ferro puro sinterizadas por plasma.. Revista Brasileira de Aplicações de Vácuo (Impresso), v. 23, p. 117-120, 2007.
- 77 KRAUSS, Vivian A ; OLIVEIRA JR, Amir Antonio de ; A. N. Klein ; ALQUIRESHI, Hazim A ; FREDEL, M. C. . A model for PEG removal from alumina injection moulded parts by solvent debinding.. Journal of Materials Processing Technology, v. 182, p. 268-273, 2007.
- 78 Justino, J. G. ; Alves, M. K. ; Klein, A. N. ou Klein, Aloisio N. ; Klein, A. N. ; Alquireshi, H. A. . A comparative analysis of elasto-plastic constitutive models for porous sintered materials. Journal of Materials Processing Technology, v. 179, p. 44-49, 2006.
- 79 Nascimento, R. M. ; Buschinelli, A. J. A. ; Klein, A. N. ou Klein, Aloisio N. ; Martinelli, A. E. . Microstructure and Dilatometric Behavior of Powder Injection Molded Low-Expansion Alloys. International Journal of Powder Metallurgy, v. 42, p. 29-38, 2006.
- 80 Machado, R. ; Ristow Jr., W. ; Klein, A. N. ou Klein, Aloisio N. ; Fusão, D. ; Wendhausen, P. A. P. . Plasma Assisted Debinding and Sintering (PADS) Metal Injection Molding Application. Materials Science Forum (Online), v. 530-531, p. 224-229, 2006.
- 81 Alves Neto, J. P. ; Giacomelli, C. ; Klein, A. N. ; Muzart, J. L. R. ; Spinelli, A. ; Klein, A. N. ou Klein, Aloisio N. ; A. N. Klein . Electrochemical stability of magnetron-sputtered Ti films on sintered and sintered/plasma nitrided Fe?1.5% Mo alloy. Surface & Coatings Technology, v. 191, p. 206-211, 2005.
- 82 Pavanati, H.C. ; Maliska, A. M. ; Klein, A. N. ou Klein, Aloisio N. ; Klein, A. N. ; Muzart, J. L. R. . Sintering unalloyed iron in abnormal glow discharge with superficial chromium enrichment. Materials Science & Engineering. A, Structural Materials: properties, microstructure and processing , v. 392, p. 313-319, 2005.
- 83 Alquireshi, H. A. ; Galiotto, A. ; Klein, A. N. ; Klein, A. N. ou Klein, Aloisio N. ; Klein, A. N. . On the mechanics of cold die compaction for powder metallurgy. Journal of Materials Processing Technology, v. 166, n.1, p. 135-143, 2005.
- 84 Alquireshi, H. A. ; Klein, A. N. ; Fredel, M. C. ; Klein, A. N. ou Klein, Aloisio N. ; Klein, A. N. . Grain size and surface roughness effect on the instability strains in sheet metal stretching. Journal of Materials Processing Technology , Irlanda do Norte, v. 170, n.1-2, p. 204-210, 2005.
- 85 Santos, M.A. ; Silva, H. R. T. ; Maliska, A. M. ; Klein, A. N. ou Klein, Aloisio N. ; Muzart, J. L. R. . Oil removal and nitriding of sintered parts using a DC discharge. Surface & Coatings Technology, v. 195, p. 198-203, 2005.
- 86 Krauss, V. A. ; Pires, E. N. ; Klein, A. N. ou Klein, Aloisio N. ; Fredel, M. C. . Rheological properties of alumina injection feedstocks. Materials Research (São Carlos. Impresso , São Paulo, v. 8, n.2, p. 187-189, 2005.
- 87 Santos, M.A. ; Maliska, A. M. ; Klein, A. N. ou Klein, Aloisio N. ; Klein, A. N. ; Ristow Jr., W. ; Muzart, J. L. R. . Debinding of injected parts using an abnormal glow discharge. Materials Science & Engineering. A, Structural Materials: properties, microstructure and processing, v. 407, p. 71-76, 2005.
- 88 Gonçalves, D ; Klein, A. N. ou Klein, Aloisio N. ; Klein, A. N. . Analysis and investigation of ballistic impact on ceramic/metal composite armour. International Journal of Machine Tools & Manufacture, Birmingham, v. 44, n.2-3, p. 307-316, 2004.
- 89 Lourenço, J. M. ; Maliska, A. M. ; Klein, A. N. ; Muzart, J. L. R. . Plasma Sintering of Unalloyed Iron: A Study of Surface Porosity. Materials Research (São Carlos. Impresso), São Carlos-SP, v. 7, n.2, p. 269-275, 2004.

- 93 Santos, M.A. ; Neivock, M. P. ; Maliska, A. M. ; Klein, A. N. ; Muzart, J. L. R. . Plasma debinding and pre-sintering of injected parts. Materials Research (São Carlos. Impresso), São Carlos-SP, v. 7, n.3, p. 505-511, 2004.
- 94 Muzart, J. L. R. ; Klein, A. N. ou Klein, Aloisio N. ; Fusão, D. ; Wendhausen, P. A. P. . Tecnologia de plasma aplicada à metalurgia do pó. Metalurgia e Materiais, São Paulo, v. 60, n.551, p. 764-767, 2004.
- 95 Justino, J. G. ; Klein, A. N. ou Klein, Aloisio N. ; Alqueshti, H. A. . Constitutive model for the elastic?plastic analysis of porous sintered materials. International Journal of Machine Tools & Manufacture, v. 44, p. 1471-1479, 2004.
- 96 Brunatto, S. F. ; Kühn, I. ; Klein, A. N. ou Klein, Aloisio N. ; Klein, A. N. . Sintering iron using a hollow cathode discharge. Materials Science & Engineering. A, Structural Materials: properties, microstructure and processing, U.K., v. 343, p. 163-169, 2003.
- 97 Maliska, A. M. ; Pavanati, H.C. ; Klein, A. N. ; Muzart, J. L. R. ; Klein, A. N. ou Klein, Aloisio N. ; Klein, A. N. . The influence of ion energy bombardment on the surface porosity of plasma sintered iron. Materials Science & Engineering. A, Structural Materials: properties, microstructure and processing, Shannon, v. 352, n.1-2, p. 273-278, 2003.
- 98 Brunatto, S. F. ; Kühn, I. ; Klein, A. N. ou Klein, Aloisio N. ; Muzart, J. L. R. . Sintering Iron Using a Hollow Cathode Discharge with External Ti Cathode. Materials Science Forum (Online), Uetikon-Zuerich, v. 416-418, p. 263-268, 2003.
- 99 Resende, L. M. ; Prata, A. T. ; Klein, A. N. ou Klein, Aloisio N. ; De Almeida, L. H. . Influence of Powder Geometry on Powder Injection Molding Process Parameters. Materials Science Forum (Online), Uetikon-Zuerich, v. 416-418, p. 347-353, 2003.
- 100 Alves Neto, J. P. ; Giacomelli, C. ; Klein, A. N. ; Muzart, J. L. R. ; Spinelli, A. . Characterization of sintered and sintered/plasma nitrided Fe-1.5%Mo alloy by SEM, X-Ray diffraction and electrochemical techniques. Materials Research (São Carlos. Impresso), SÃO CARLOS, SP, v. 5, n.2, p. 165-172, 2002.
- 101 de Mello, J. D. B. ; Binder, R. ; Klein, A. N. ou Klein, Aloisio N. ; Klein, A. N. ; Hutchings, I. M. . Effect of compaction pressure and powder grade on microstructure and hardness of steam oxidised sintered iron. Revista do IEEE América Latina, Inglaterra, v. 44, n.1, p. 53-61, 2001.
- 102 Maliska, A. M. ; de Oliveira, A. A. M. ; Klein, A. N. ou Klein, Aloisio N. ; Klein, A. N. ; Muzart, J. L. R. . Surface porosity sealing effect of plasma nitrocarburizing on sintered unalloyed iron. Surface & Coatings Technology, Lousanne, v. 141, p. 128-134, 2001.
- 103 Nobrega Neto, S. C. ; Klein, A. N. ou Klein, Aloisio N. ; Wendhausen, P. A. P. ; Ferri, O. M. . Componentes metálicos obtidos por moldagem de pós por injeção. Máquinas e Metais, Brasil, v. 431, p. 140-149, 2001.
- 104 Klein, A. N. ou Klein, Aloisio N. ; Fredel, M. C. ; Wendhausen, P. A. P. . Novos Materiais: Realidade e Tendências de Desenvolvimento. NEXUS Ciência e Tecnologia, Florianopolis, v. 1, p. 16-19, 2001.
- 105 Resende, L. M. ; Klein, A. N. ou Klein, Aloisio N. ; Prata, A. T. . Rheological Properties of Granulometric Mixtures for Powder Injection Molding. Key Engineering Materials (Online), Lousane, v. 189-191, p. 598-603, 2001.
- 106 Gutierrez, J. A. E. ; Fredel, M. C. ; Klein, A. N. ou Klein, Aloisio N. . Preparation of Hard Metal (WC-10Co) Components by Powder Injection Moulding.. Key Engineering Materials, Trans Tech Publications, Lousane, Switzerland, Suiça, v. 189, p. 579-585, 2001.
- 107 Nascimento, R. M. ; Justino, J. G. ; Fredel, M. C. ; Klein, A. N. ou Klein, Aloisio N. . Injection Moulding of Low Expansion Fe-Ni-Co Alloys. Key Engineering Materials (Online), Suiça, v. 189-191, n.19, p. 586-591, 2001.
- 108 Justino, J. G. ; Nemes, J. A. ; Alves, M. K. ; Klein, A. N. ou Klein, Aloisio N. . Comparison of Several Plasticity Theories Applied to Simulation of Plastic Deformation of Porous Materials. Key Engineering Materials (Online), Lousane, v. 189-191, p. 592-597, 2001.
- 109 Klein, A. N. ou Klein, Aloisio N.. Rheological Analysis Based on Powder Tap Density for Powder Injection Molding Mixtures. Advances in Powder Metallurgy & Particulate Materials, n.2, p. 113-120, 2000.
- 110 Batista, V. J. ; Mafra, M. ; Muzart, J. L. R. ; Klein, A. N. ou Klein, Aloisio N. ; Back, N. . Plasma Sintering: a Novel Process for sintering Metallic Components. Materials Science Forum, Trans Tech Publications, v. 299, n.300, p. 249-253, 1999.
- 111 Nascimento, R. M. ; Klein, A. N. ou Klein, Aloisio N. . Brasing Sintered Materials.. Materials Science Forum, Trans Tech Publications, v. 299, n.30, p. 253-262, 1999.

- 112 Borges, P. C. ; Muzart, J. L. R. ; Klein, A. N. ou Klein, Aloisio N. . The Corrosion Behavior of Sintered Steels: Effect of Nitriding Temperature, Time, and Addition of CH₄ in the Atmosphere. Materials Science Forum, ZURICH-UETIKON, v. 299, n.3, p. 286-297, 1999.
- 113 Borba, E. C. ; Maliska, A. M. ; Souza, A. R. ; Klein, A. N. ou Klein, Aloisio N. . Plasma Nitriding and Nitrocarburising in Sintered Materials. Materials Science Forum, v. 299, n.300, p. 321-329, 1999.
- 114 Justino, J. G. ; Resende, L. M. ; Fredel, M. C. ; Wendhausen, P. A. P. ; Cunha Neto, J. A. B. ; Ristow Jr., W. ; Klein, A. N. ou Klein, Aloisio N. . Powder Injection Molding: A Comparison of Two Debinding Procedures Based on Solvent Extraction. Materials Science Forum (Online), Inglaterra, v. 299-300, n.300, p. 448-456, 1999.
- 115 Nascimento, R. M. ; Martinelli, A. E. ; Buschinelli, A. J. A. ; Klein, A. N. ou Klein, Aloisio N. ; Klein, A. N. . Brazing Al₂O₃ to sintered Fe-Ni-Co alloys. Journal of Materials Science, Inglaterra, v. 34, p. 5839-5845, 1999.
- 116 JUSTINO, J. G. ; RESENDE, L. M. ; FREDEL, M. ; WENDHAUSEN, P. A. P. ; RISTOW JR, W. ; A. N. Klein ; RISTOW JUNIOR, W. . Powder Injection Molding: A Comparison of Two Debinding Procedures Based on Solvent Extraction. Materials Science Forum (Online), v. 299-300, p. 448-456, 1999.
- 117 Nascimento, R. M. ; Klein, A. N. ou Klein, Aloisio N. . Microstructure And Thermal Expansion Behavior Of Sintered Fe-Ni-Co Alloys. International Journal of Powder Metallurgy, Estados Unidos, v. 34, n.6, p. 37-45, 1998.
- 118 Batista, V. J. ; Binder, R. ; Klein, A. N. ou Klein, Aloisio N. ; Muzart, J. L. R. . Sintering Iron Using an Abnormal Glow Discharge. International Journal of Powder Metallurgy, Estados Unidos, v. 34, n.8, p. 55-62, 1998.
- 119 Silva, J. H. E. ; Martinelli, A. E. ; Lima, S. J. G. ; Ambrosio Filho, F. ; Klein, A. N. ou Klein, Aloisio N. . Microstructural Evolution Of Fe Sintered With Amorphous Fe75 S10 B15 Additive. Powder Metallurgy, Inglaterra, v. 41, n.4, p. 255-259, 1998.
- 120 MAFRA Marcio ; BATISTA, V. J. ; A. N. Klein ; MUZART, J. L. R. ; BACK, Nelson . PLASMA SINTERING: A NOVEL PROCESS FOR SINTERING METALLIC COMPONENTS. Ttp Trans Tech Publications, 1998.
- 121 Maliska, A. M. ; Egert, P. ; Souza, A. R. ; Speller, C. V. ; Klein, A. N. ou Klein, Aloisio N. ; A. N. Klein . Influence of oxygen in a plasma nitriding process. Journal of Materials Science, Inglaterra, v. 32, p. 6375-6382, 1997.
- 122 Maliska, A. M. ; Cezaro, J. A. ; Justino, J. G. ; Klein, A. N. ou Klein, Aloisio N. . Microstructural And Mechanical Characterization Of Plasma Nitrided Fe-Mo-Cu P/M Steels With Different Alloy Contents. Advances in Powder Metallurgy & Particulate Materials, Estados Unidos, v. 3, n.8, p. ?-?, 1997.
- 123 Batista, V. J. ; Muzart, J. L. R. ; Franco, C. V. ; Klein, A. N. ou Klein, Aloisio N. . Plasma Sintering Of 316L Stainless Steel: The Influence Of The Processing Cycle On The Sample Density. Advances in Powder Metallurgy & Particulate Materials, Estados Unidos, n.3, p. 77-84, 1997.
- 124 Borba, E. C. ; Maliska, A. M. ; Klein, A. N. ou Klein, Aloisio N. ; Muzart, J. L. R. . Plasma Nitrocarburizing Of Pure Sintered Iron: The Evolution Of Compound Layer. LE VIDE, França, v. 284, p. 121-124, 1997.
- 125 MAFRA Marcio ; BATISTA, V. J. ; SILVA, Jorge H. E. ; CENELLI, Milton J. ; A. N. Klein . RESULTADOS EXPERIMENTAIS DA SINTERIZAÇÃO EM PLASMA DO AÇO INOXIDÁVEL AISI 316L. Revista Máquinas e Metais, 1997.
- 126 Borges, P. C. ; Rocha, J. ; Martinelli, A. E. ; Muzart, J. L. R. ; Cabral, F. ; Klein, A. N. ou Klein, Aloisio N. ; Franco, C. V. . The Effect Of Nitrocarburizing Paramenters On The Corrosion Resistance Of Sintered Steel. ADVANCES IN POWDER METALLURGY & PARTICULATE MATERIALS, Estados Unidos, v. 13, p. 179-190, 1997.
- 127 Parente, A. C. B. ; Sobral, A. V. C. ; Muzart, J. L. R. ; Klein, A. N. ou Klein, Aloisio N. ; Franco, C. V. . Electrochemical Behavior And Microstrutural Characterization Of Plasma Nitrided Layer Of Sintered Steels Containing Mo And Ni In Different Concentration. Advances in Powder Metallurgy & Particulate Materials, v. 4, n.13, p. 167-176, 1996.
- 128 Maliska, A. M. ; Klein, A. N. ou Klein, Aloisio N. . Caracterizacao Superficial e Microestrutural de Aços Sinterizados Nitretados Por Plasma. REVISTA DA ABM, METALURGIA & MATERIAIS, v. 52, n.449, p. 42-51, 1996.
- 129 Maliska, A. M. ; Klein, A. N. ou Klein, Aloisio N. . Surface Caracterization Of Plasma Nitriding Sintered Steels Using Scanning Electron Microscopy (Sem) And Energy Dispersive X-Ray Microscope Analysis (Edx). ACTA MICROSCOPICA, Rio de Janeiro, v. 5, p. 352-353, 1996.

- 130 AMBROZIO FILHO, F ; GOLDENSTEIN, H ; **A. N. Klein** ; ROSSI, J L ; SOUZA R M ; YOSHIMURA, H N . Desenvolvimento de compósitos de matriz metálica. Metalurgia e Materiais, NACIONAL, v. 52, n.452, p. 248-252, 1996.
- 131 Maliska, A. M. ; **Klein, A. N. ou Klein, Aloisio N.** . Microstructural characterization of plasma nitriding surface of sintered steels containing Si. Surface & Coatings Technology , Lousanne, v. 70, n.2-3, p. 175-179, 1995.
- 132 Maliska, A. M. ; **Franco, C. V. ; Klein, A. N. ou Klein, Aloisio N.** . Plasma Nitriding of Plane Sintered Iron: Influence of Oxigen on Nitrided Layer Formation. Advances in Powder Metallurgy & Particulate Materials, Estados Unidos, v. 2, p. 08-19, 1995.
- 133 Pereira, N. C. ; Mittelstadt, F. G. ; Spinelli, A. ; Maliska, A. M. ; **Klein, A. N. ou Klein, Aloisio N. ; Klein, A. N. ; Muzart, J. L. R. ; Franco, C. V.** . Electrochemical and microstructural studies of sintered and sintered-plasma nitrided steel containing different alloying elements. Journal of Materials Science, v. 30, p. 4817-4822, 1995.
- 134 Sobral, A. V. C. ; **Maliska, A. M. ; Tosi, G. ; Muzart, J. L. R. ; Klein, A. N. ou Klein, Aloisio N. ; Franco, C. V.** . Evaluation of Corrosion on Sintered Fe-1,5% Si With Different Degrees Of Homogeneity. Advances in Powder Metallurgy & Particulate Materials, v. 3, n.11, p. 57-68, 1995.
- 135 Borges, P. C. ; **Pereira, N. C. ; Franco, C. V. ; Klein, A. N. ou Klein, Aloisio N.** . Eletrochemical Evaluation Of Corrosion Resistance Of Sintered And ion-nitrided Iron. Advances in Powder Metallurgy and Particulate Materials (Cessou em 1992. Cont. ISSN 1546-7724 Advances in Powder Metallurgy & Particulate Materials (1, Estados Unidos da America, v. 2, p. 61-68, 1994.
- 136 Ehlert, S. C. ; Arroyo, I. K. ; Klein, A. N. ou Klein, Aloisio N. . Production fo cold formed medium and highly alloyed PM preforms. REVISTA METALURGIA INTERNACIONAL, Brasil, v. 3, n.8, p. 26-31, 1990.
- 137 Ehlert, S. C. ; Arroyo, I. K. ; Klein, A. N. ou Klein, Aloisio N. . Produção de peças de média e alta liga por conformação a frio de pré-formas. M & M - Metalurgia e Materiais, São Paulo. Metalurgia & Materiais, v. 46, p. 522-529, 1990.
- 138 Klein, A. N. ou Klein, Aloisio N.; Salcedo, R. A. ; Arroyo, I. K. . Aços Sinterizados de Resistencia Elevada. REVISTA MAQUINAS E METAIS, Brasil, v. 23, n.259, p. 39-43, 1987.
- 139 Klein, A. N. ou Klein, Aloisio N.; Salcedo, R. A. ; Arroyo, I. K. . O Nióbio na busca de aços resistentes. REVISTA MAQUINAS E METAIS, São Paulo - Brasil, v. 23, n.259, p. 44-47, 1987.
- 140 Klein, A. N. ou Klein, Aloisio N.; Sales Palma, E. ; Arroyo, I. K. . Recentes Avancos na Tecnica de Liga. REVISTA MAQUINAS E METAIS, São Paulo, v. 23, n.259, p. 35-38, 1987.
- 141 Klein, A. N. ou Klein, Aloisio N.; Oberacker, R. ; Thümmler, F. E. . High Strength Si-Mn-Alloyed Sintered Steels - Microstructure and Mechanical Properties. POWDER METALLURGY INTERNATIONAL, Freiburg- Germany, v. 17, n.11, p. 13-16, 1985.
- 142 Klein, A. N. ou Klein, Aloisio N.; Oberacker, R. ; Thümmler, F. E. . High Strength Si-Mn-Alloyed Sintered Steels - Sinterability And Homogenization. POWDER METALLURGY INTERNATIONAL, Freiburg - Alemanha, v. 17, n.2, p. 71-74, 1985.
- 143 Klein, A. N. ou Klein, Aloisio N.; Oberacker, R. ; Thümmler, F. E. . Deveploment Of New High Strength Si-Mn Alloyed Sintedred Steels. Modern Development In Powder Metallurgy, Alemanha, v. 15, n.17, p. 141-152, 1985.
- 144 Klein, A. N. ou Klein, Aloisio N.; Oberacker, R. ; Thümmler, F. E. . Development of New High Strength Sintered Steels Containing Silicon And Manganese. METAL POWDER REPORT, v. 39, n.6, p. 16-22, 1984.