

## 2002

**ŠALAK, A. - MIŠKOVIČ, V. - DUDROVÁ, E. - RUDNAYOVÁ, E.**: The Dependence of Mechanical Properties of Sintered Iron Compacts upon Porosity. Powder Metallurgy International, 6, 1974, s.128-132

Zahr.WOS: DANNINGER, H., SONNTAG, U., KUHNERT, B.: Praktische Metallographie, 39, 2002, 8, s. 414-425

Zahr.WOS: SUNG, HJ., HA, TK., AHN, S.: Journal of Materials Processing Technology, 130, 2002, s. 321-327

Dom.iné: MOON, JR.: Powder Metallurgy Progress, 2, 2002, 2, s. 63-80

Zahr.WOS: MILMAN, YV., LUYCKX, S., GONCHARUCK, VA.: Int.J.Refract.Met. H, 20, 2002, 1, s. 71-79

Zahr.WOS: ZHAO, SB.: Mater.Design, 23, 2002, 5, s. 497-499

**DUDROVÁ, E. - ŠALAK, A.**: Vlastnosti spekaných ocelí legovaných chrómom pripravených mechanickým miešaním komponentov. In: Kovové materiály s vysokými mechanicko-fyzikálnymi vlastnosťami. Zborník prednášok z medzinárodného sympózia. 2. diel. Bratislava, DT SVTS 1977, s.106-111

Dom.iné: TORRALBA, JM., CAMPOS, M.: Powder Metallurgy Progress, 2, 2002, 3, s. 177-186

**RODZIŇÁK, D. - ŠLESÁR, M.**: The Fatigue Curve of Sintered Iron and its Microstructural and Fractographic Interpretation. Powder Metallurgy International, 12, 1980, s.127-130

Zahr.WOS: POLASIK, S.J. - WILLIAMS, J.J. - CHAWLA, N.: Metallurgical and Materials Transactions A, 33, 2002, 1, s. 73-81

**ŠALAK, A.**: Sintered Manganese Steels. Part 2: Manganese Evaporation during Sintering. Powder Metallurgy International, 12, 1980, 2, s.72-75

Zahr.WOS: MIURA, H., MATSUDA, M.: Mater.Trans., 43, 2002, 3, s. 343-347

**ŠALAK, A.**: Gefüge von manganlegiertem Sinterstahl. Teil 1. Basispulver Verdusungseisen. Praktische Metallographie, 17, 1980, s.273-280

Dom.iné: TORRALBA, JM., CAMPOS, M.: Powder Metallurgy Progress, 2, 2002, 3, s. 177-186

**ŠALAK, A.**: Gefüge von manganlegiertem Sinterstahl. Teil 2. Basispulver Hametageisen. Praktische Metallographie, 17, 1980, s.390-396

Dom.iné: TORRALBA, JM., CAMPOS, M.: Powder Metallurgy Progress, 2, 2002, 3, s. 177-186

**ŠALAK, A.**: Sintered Manganese Steels. Part 1: Effect of Structure of Initial Iron Powders upon Mechanical Properties. Powder Metallurgy International, 12, 1980, 1, s.28-31

Dom.iné: TORRALBA, JM., CAMPOS, M.: Powder Metallurgy Progress, 2, 2002, 3, s. 177-186

**LOFAJ, F.**: Unpub J.Mat.Sci.. Kovové materiály, 18, 1980

Zahr.WOS: LUECKE, WE.: Journal of the American Ceramic Society, 85, 2002, 2, s. 408-414

**ŠLESÁR, M.**: Fraktographische gesetzmässigkeiten beim Bruch von Sinterwerkstoffen. In: 7. Internationale pulvermetallurgische Tagung in der DDR. Band 2. Kurzvorträge. Dresden, 22.-24.9.1981. Dresden, ZFW AdW DDR 1981, s.83-96

Zahr.WOS: DANNINGER, H., SONNTAG, U., KUHNERT, B.: Praktische Metallographie, 39, 2002, 8, s. 414-425

**ŠTEFAN, B. - PARILÁK, I. - KOVÁČ, F. - ŠLESÁR, M.**: Fyzikálno-metalurgické aspekty vývoja vysokopevných konštrukčných ocelí. Hutnické listy, 39, 1984, s.250-256

Zahr.iné: BURŠÁK, M. - MIHALIKOVÁ, M. - MICHEĽ, J.: Hutnické listy, 57, 2002, 4/5, s. 12-16

Dom.iné: MICHEĽ, J. - BURŠÁK, M. - HIDVÉGHY, J.: Acta Metallurgica Slovaca, 8, 2002, 1-mimor.č., s. 80-88

Zahr.WOS: MICHEĽ, J. - BURŠÁK, M. - MAMUŽIČ, I.: Metalurgija, 41, 2002, 2, s. 71-76

**ŠALAK, A.**: Effect of Extreme Sintering Conditions upon Properties of Sintered Manganese Steels. Powder Metallurgy International, 16, 1984, 6, s.260-263

Dom.iné: KREMEL, S., DANNINGER, H., YU, Y.: Powder Metallurgy Progress, 2, 2002, 4, s. 211-221

**ŠALAK, A.**: Manganese Vapor-Protection of Premixed Manganese Steels against Oxidation during Sintering. Powder Metallurgy International, 18, 1986, 4, s.266-270

*Dom.iné:* TORRALBA, JM., CAMPOS, M.: Powder Metallurgy Progress, 2, 2002, 3, s. 177-186

**DUSZA, J. - PARILÁK, L. - ŠLESÁR, M.**: Fracture Characteristics of Ceramic and Cermet Cutting Tools. Ceramics International, 13, 1987, s.133-137

*Zahr.WOS:* KRISHNA, BV., MISRA, VN., MUKHERJEE, PS.: Int.J.Refract.Met. H., 20, 2002, 5-6, s. 355-374

**DUDROVÁ, E. - PARILÁK, L. - RUDNAYOVÁ, E. - PELIKÁN, K.**: Heterogeneity of Deformation Processes in the Bulk of Porous Iron during Static Tensile Testing. Powder Metallurgy International, 19, 1987, 3, s.23-26

*Dom.iné:* MOON, JR.: Powder Metallurgy Progress, 2, 2002, 2, s. 63-80

**ŠLESÁR, M. - DUDROVÁ, E. - PARILÁK, L. - BESTERCI, M. - RUDNAYOVÁ, E.**: Influence of Pressing and Sintering Conditions on Microstructure Formation of Metallic Porous System. Science of Sintering, 19, 1987, s.17-30

*Dom.iné:* DANNINGER, H., GIERL, C., KREMEL, S., LEITNER, G., JAENICKE-ROESSLER, K., YU, Y.: Powder Metallurgy Progress, 2, 2002, 3, s. 125-140

*Zahr.WOS:* DANNINGER, H., SONNTAG, U., KUHNERT, B.: Praktische Metallographie, 39, 2002, 8, s. 414-425

**ŠAJGALÍK, P. - DUSZA, J.**: Reinforcement of Silicon Nitride Ceramics by Beta-Si<sub>3</sub>N<sub>4</sub> Whiskers. Journal of the European Ceramic Society, 5, 1989, s.321-326

*Zahr.WOS:* CHEN, DY., ZHANG, BL., ZHUANG, HR.: Materials Research Bulletin, 37, 2002, 8, s. 1481-1485

*Zahr.WOS:* CHEN, DY., ZHANG, BL., ZHUANG, HR.: Materials Letters, 57, 2002, 2, s. 399-402

*Zahr.WOS:* AN, JW., LIM, DS.: J.Ceram.Process Res., 3, 2002, 3, s. 201-204

**JANGG, G. - ŠLESÁR, M. - BESTERCI, M. - ĎURIŠIN, J. - SCHRODER, K.**: Influence of Heat Treatment during Manufacturing of Al-Al<sub>4</sub>C<sub>3</sub> Materials on Microstructure and Properties. Powder Metallurgy International, 21, 1989, 5, s.25-30

*Scopus:* BOSTAN, B., ÖZDEMIR, AT.: Proceeding of the 3rd International Powder Metallurgy Conference, 2002, s. 1339-1347

*Zahr.WOS:* LU, L., LAI, MO., FROYEN, L.: Key Engineering Materials, 230, 2002, s. 287-290

**ŠALAK, A.**: Activated Alloying of Fe-Mn Powder Systems by Manganese Vapour during Sintering. Science of Sintering, 21, 1989, 3, s.145-154

*Dom.iné:* TORRALBA, JM., CAMPOS, M.: Powder Metallurgy Progress, 2, 2002, 3, s. 177-186

**BESTERCI, M. - ŠLESÁR, M. - JANGG, G. - OROLÍNOVÁ, M. - ĎURIŠIN, J.**: Vplyv druhu uhlíka a tepelného spracovania granulátu na štruktúru a vlastnosti disperzne spevneného hliníka. Kovové materiály, 28, 1990, 2, s.189-200

*Dom.iné:* FABIANOVÁ, J.: Technológie zmeny vlastností. Prešov : FVT TU, 2002. 93 s.

**VÝROSTKOVÁ, A. - ŠTEFAN, B.**: Contribution to the micromechanism of hydrogen induced cracks formation in the low carbon low alloyed structural steel. Kovové materiály, 28, 1990, 6, s.747-759

*Kvalif.práce:* SRNKA, M.: Doktorandská dizertačná práca. Košice : HF TU, 2002

*Zahr.WOS:* TSAY, LW., LEE, WC., SHIUE, RK.: Corrosion Science, 44, 2002, 9, s. 2101-2118

**ŠLESÁR, M. - DUDROVÁ, E. - RUDNAYOVÁ, E.**: Plain Porosity as a Microstructural Characteristics of Sintered Materials. Powder Metallurgy International, 24, 1992, 4, s.232-237

*Zahr.WOS:* SIMCHI, A., DANNINGER, H.: Powder Metallurgy, 45, 2002, 4, s. 307-314

**DUSZA, J.**: Comparison of Fracture Toughness Testing Methods Applied to Si<sub>3</sub>N<sub>4</sub>+Si<sub>3</sub>N<sub>4</sub>-Whisker System. Scripta Metallurgica et Materialia, 26, 1992, s.337-342

*Zahr.WOS:* SCHWARZ, M., ZERR, A., KROKE, E., MIEHE, G., CHEN, IW., HECK, M., THYBUSCH, B., RIEDEL, R.: Angewandte Chemie - International Edition, 41, 2002, 5, s. 789-793

**BALÁŽ, P. - BRIANČIN, J. - ŠEPELÁK, V. - HAVLÍK, T. - ŠKROBIAN, M.**: Non-Oxidative Leaching of Mechanically Activated Stibnite. Hydrometallurgy, 31, 1992, s.201-212

*Zahr.WOS:* KIM, DJ., CHUNG, HS.: Particul.Sci.Technol., 20, 2002, 2, s. 159-168

*Zahr.WOS:* HU, HP., CHEN, QY., YIN, ZL.: Themochimica Acta, 389, 2002, 1-2, s. 79-83

**BALÁŽ, P. - BASTL, Z. - BRIANČIN, J. - EBERT, I. - LIPKA, J.**: Surface and Bulk Properties of Mechanically Activated Zinc Sulphide. Journal of Materials Science, 27, 1992, s.653-657

*Zahr.WOS:* CHEN, QY., HU, HP., YIN, ZL.: Metallurgical and Materials Transactions B, 33, 2002, 6, s. 897-900

*Zahr.WOS:* HU, HP., CHEN, QY., YIN, ZL.: *Themochimica Acta*, 389, 2002, 1-2, s. 79-83  
*Zahr.WOS:* IIO, K., HAYASHI, A., MORIMOTO, H.: *Chem.Mater.*, 14, 2002, 6, s. 2444-2449

**KUPKOVÁ, M.:** Porosity Dependence of Material Elastic Moduli. *Journal of Materials Science*, 28, 1993, s.5265-5268

*Zahr.iné:* ROSENBERG, G.: Přínos metalografie pro řešení výrobních problémů. 9. konference. Lázně Libverda, 19.-21.6.2002. Praha : FS ČVUT, 2002, s. 364-365

*Zahr.iné:* MUNRO, RG.: Elastic Moduli Data for Polycrystalline Ceramics. Gaithersburg : Natl.Inst.Standards and Tech., 2002

*Scopus:* HIROSE, A., TANAKA, SI., TANAKI, T., ASAMI, J.: *Transactions of the Japan Society of Mechanical Engineers A*, 68. 2002, 5, s. 794-800

*Dom.WOS:* LOFAJ, F.: Kovové materiály, 40, 2002, 3, s. 184-194

**BALÁŽ, P. - BRIANČIN, J.:** Reactivity of Mechanically Activated Pyrite. *Solid State Ionics*, 63-65, 1993, s.296-300  
*Zahr.WOS:* WELHAM, NJ., BERBENNI, V., CHAPMAN, PG.: *Carbon*, 40, 2002, 13, s. 2307-2315

**ŠLESÁR, M.:** Fyzikálna metalurgia a moderné výrobné procesy pásových ocelí. *Oceľové plechy*, 20, 1993, 3/4, s.16-20

*Zahr.WOS:* MICHEĽ, J. - BURŠÁK, M. - MAMUZIČ, I.: *Metalurgija*, 41, 2002, 2, s. 71-76

*Zahr.iné:* BURŠÁK, M. - MIHALIKOVÁ, M. - MICHEĽ, J.: *Hutnické listy*, 57, 2002, 4/5, s. 12-16

*Dom.iné:* MICHEĽ, J. - BURŠÁK, M. - HIDVÉGHY, J.: *Acta Metallurgica Slovaca*, 8, 2002, 1-mimor.č., s. 80-88

**MAREK, P. - ŠEVČÍK, A.:** Rozbor príčin vzniku stredových necelistvostí brám ocele Kohal. *Oceľové plechy*, 21, 1994, 4, s.12-17

*Dom.iné:* LONGAUEROVÁ, M. - FUJDA, M. - LONGAUER, S. - KADLEC, J.: *Acta Metallurgica Slovaca*, 8, 2002, 3-mimor.č., s. 143-149

**DUSZA, J. - ŠAJGALÍK, P.:** Static Fatigue Resistance of  $\text{Si}_3\text{N}_4 + \text{Si}_3\text{N}_4$  Whisker Ceramics at 1200 C. *Journal of Materials Science Letters*, 13, 1994, s.131-134

*Zahr.iné:* HVIZDOŠ, P.: *Fracture Mechanics of Ceramics*. Vol. 13. Ed. R.C.Bradt a kol. New York : Kluwer Academic, 2002, s. 335-344

**ŠEVC, P. - JANOVEC, J. - KATANA, V.:** On Kinetics of Phosphorus Segregation in Cr-Mo-V Low Alloy Steel. *Scripta Metallurgica et Materialia*, 31, 1994, 12, s.1673-1678

*Zahr.WOS:* LI, Q. - YANG, S. - LI, L. - ZHENG, L. - XU, T.: *Scripta Materialia*, 47, 2002, No 389-392

*Zahr.WOS:* DONG, JX., ZHANG, MC., XIE, XS., THOMPSON, RG.: *Materials Science and Engineering A*, 328, 2002, 8

*Zahr.WOS:* KIM, S., SHEKHTER, A., RINGER, SP.: *International Journal of Vessels and Piping*, 79, 2002, 8-10, s. 571-576

*Zahr.WOS:* LEJCEK, P. - HOFMANN, S.: *Surf.Interface Anal.*, 33, 2002, 3, s. 203-210

**DUDROVÁ, E. - KABÁTOVÁ, M. - MOLNÁR, F. - BUREŠ, R.:** Direct Vacuum Sintering Behaviour of M2 High Speed Steel Powder with Copper and Graphite Additions. *Powder Metallurgy*, 37, 1994, 3, s.206-211

*Zahr.WOS:* GORDO, E., VELASCO, F., MARTINEZ, MA.: *Rev.Metal Madrid*, 38, 2002, 2, s. 83-93

**MAGULA, V. - JANOVEC, J.:** Effect of Short Time High Temperature Annealing on Kinetics of Carbidic Reactions in 2,7Cr-0,6Mo-0,3V Steel. *Ironmaking and Steelmaking*, 21, 1994, 3, s.223-228

*Zahr.WOS:* SLUGEN, V., LIPKA, J., TOTH, I.: *Hyperfine Interact.*, 139, 2002, 1-4, s. 427-435

**ĎURIŠIN, J. - OROLÍNOVÁ, M. - ĎURIŠINOVÁ, K. - KATANA, V.:** Mechanochemical Method of Nanocrystalline Powder Copper Preparation. *Journal of Materials Science Letters*, 13, 1994, s.688-689

*Zahr.WOS:* KIM, YK., RIU, DH., KIM, SR.: *Materials Letters*, 54, 2002, 2-3, s. 229-237

**PARILÁK, I. - DUDROVÁ, E.:** New Pressing Equation. In: PM 94. Powder Metallurgy World Congress and Exhibition. Vol.1. Paris, 6.-9.6.1994, s.737-740

*Zahr.WOS:* SECONDI, J.: *Powder Metallurgy*, 45, 2002, 3, s. 213-217

ŠAJGALÍK, P. - LENČEŠ, Z. - DUSZA, J.:  $\text{Si}_3\text{N}_4$  Based Composite with Layered Microstructure. In: Ceramics Materials and Components for Engines. Shanghai, 29.5.-1.6.1994. Ed. D.S.Yan a kol.. Singapore, World Scientific 1994, s.198-201

Zahr.WOS: LUO, YM., PAN, W., LI, SQ.: Ceramics International, 28, 2002, 2, s. 223-226

ŠALAK, A.: Ferrous Powder Metallurgy. Cambridge, Cambridge International Science Publishing 1995, 410 s.

Zahr.WOS: ZHANG, ZY., ZHANG, Y., MUHAMMED, M.: Int.J.Refract.Met. H, 20, 2002, 3, s. 227-233

Zahr.WOS: ORNATO, D.: Powder Metallurgy, 45, 2002, 4, s. 290-293

Zahr.WOS: SARITAS, S., DOHERTY, RD., LAWLEY, A.: International Journal of Powder Metallurgy, 38, 2002, 1, s. 31

Zahr.WOS: MARTINEZ, M., SUWARDJO, W., GARCIA, L.: Rev.Metal Madrid, 38, 2002, 3, s. 173-182

Dom.iné: DANNINGER, H., GIERL, C., KREMEL, S., LEITNER, G., JAENICKE-ROESSLER, K., YU, Y.: Powder Metallurgy Progress, 2, 2002, 3, s. 125-140

Zahr.iné: ROSENBERG, G.: Přínos metalografie pro řešení výrobních problémů. 9. konference. Lázně Libverda, 19.-21.6.2002. Praha : FS ČVUT, 2002, s. 364-365

Dom.iné: KREMEL, S., DANNINGER, H., YU, Y.: Powder Metallurgy Progress, 2, 2002, 4, s. 211-221

Dom.iné: ROSSO, M. - ACTIS GRANDE, M. - ORNATO, D.: Powder Metallurgy Progress, 2, 2002, 1, s. 10-17

ŠEVC, P. - JANOVEC, J. - KOUTNÍK, M. - VÝROSTKOVÁ, A.: Equilibrium Grain Boundary Segregation of Phosphorus in 2,6Cr-0,7Mo-0,3V Steels. Acta Metallurgica et Materialia, 43, 1995, 1, s.251-258

Zahr.WOS: DONG, JX., ZHANG, MC., XIE, XS., THOMPSON, RG.: Materials Science and Engineering A, 328, 2002, 8

GRITZNER, G. - PUCHNER, C. - DUSZA, J.: Nb<sub>2</sub>O<sub>5</sub> and Ta<sub>2</sub>O<sub>5</sub> Codoped Zirconia. Journal of the European Ceramic Society, 15, 1995, s.45-49

Zahr.WOS: RAGHAVAN, S., MAYO, MJ.: Surf.Coat.Tech., 160, 2002, 2-3, s. 187-196

MIŠKOVIČOVÁ, M. - FÁBEROVÁ, M. - MIŠKOVIČ, V. - ČONKA, R. - ZAJAC, J.: Mikroštruktúra a rezné vlastnosti nekonvenčných rýchlorezných ocelí vyrobených práškovou metalurgiou. Kovové materiály, 33, 1995, 3, s.173-180

Dom.iné: PAVLÍČKOVÁ, M., VOJTĚCH, D., STOLAŘ, P., JURČI, P.: Powder Metallurgy Progress, 2, 2002, 2, s. 81-89

LOFAJ, F. - KAGANOVSKIJ, Yu.S.: Kinetics of WC-Co Oxidation Accompanied by Swelling. Journal of Materials Science, 30, 1995, s.1811-1817

Zahr.WOS: KRISHNA, BV., MISRA, VN., MUKHERJEE, PS.: Int.J.Refract.Met. H., 20, 2002, 5-6, s. 355-374

Zahr.WOS: PELEKH, T., MATSUSHITA, J.: Journal of the Ceramic Society of Japan, 110, 2002, 4, s. 228-231

LOFAJ, F. - USAMI, H. - IKEDA, Y. - MIZUTA, Y. - KAWAMOTO, H.: Creep Fracture Behaviour of Gas Pressure Sintered Silicon Nitride by X-Ray CT. In: 1995 Yokohama International Gas Turbine Congress. Vol.3. Yokohama, 22.-27.10.1995, s.37

Zahr.WOS: LUECKE, WE.: Journal of the American Ceramic Society, 85, 2002, 2, s. 408-414

Zahr.WOS: RENDTEL, P., RENDTEL, A., HUBNER, H.: Journal of the European Ceramic Society, 22, 2002, 12, s. 2061-2070

ŠAJGALÍK, P. - DUSZA, J. - HOFFMANN, M.J.: Relationship between Microstructure Toughening Mechanisms and Fracture Toughness of Reinforced Beta- $\text{Si}_3\text{N}_4$  Ceramics. Journal of the American Ceramic Society, 78, 1995, 10, s.2619-2624

Zahr.WOS: FANG, Y., YU, F., WHITE, KW.: Journal of Materials Science, 37, 2002, 20, s. 4411-4417

Zahr.WOS: YOSHIYA, M. - TATSUMI, K. - TANAKA, I.: Journal of the American Ceramic Society, 85, 2002, 1, s. 109-112

Zahr.WOS: KIM, H.D. - HAN, B.D. - PARK, D.S.: Journal of the American Ceramic Society, 85, 2002, 1, s. 245-252

Zahr.iné: ZHILINSKA, N., ZALITE, I., GRABIS, J., KLADLER, G.: AMTT. 2nd International Meeting on Space and Aerospace Materials Technology. Seibersdorf, 4.11.2002. Seibersdorf : ARC, 2002, s. 17-21

Zahr.WOS: PETZOW, G. - HERRMANN, M.: Structure and Bonding, 102, 2002, s. 47-167

Zahr.WOS: LU, HH. - HUANG, JL.: Journal of the American Ceramic Society, 85, 2002, 9, s. 2331-2336

**ŠEVC, P. - JANOVEC, J. - LUCAS, M. - GRABKE, H.J.**: Kinetics of Phosphorus Segregation in 2,7Cr-0,7Mo-0,3V Steels with Different Phosphorus Contents. *Steel Research*, 66, 1995, 12, s.537-542  
Zahr.WOS: XU, T.D.: *Scripta Materialia*, 46, 2002, 11, s. 759-763

**ŠLESÁR, M.**: Micromechanisms of Fracture of PM Materials. In: Deformation and Fracture in Structural PM Materials. Vol.1. Stará Lesná, 13.-16.10.1996. Ed. L.Parilák. Košice, ÚMV SAV 1996, s.85-108  
Dom.iné: MOON, JR.: *Powder Metallurgy Progress*, 2, 2002, 2, s. 63-80

**SALAK, A.**: Development Trends in Ferrous Powder Metallurgy. In: Deformation and Fracture in Structural PM Materials. Vol.1. Stará Lesná, 13.-16.10.1996. Ed. L.Parilák. Košice, ÚMV SAV 1996, s.205-227  
Dom.iné: TORRALBA, JM., CAMPOS, M.: *Powder Metallurgy Progress*, 2, 2002, 3, s. 177-186

BALÁŽ, P. - HAVLÍK, T. - BASTL, Z. - **BRIANČIN, J.** - KAMMEL, R.: Non-Stoichiometric Niobium Sulphide Synthesized by Mechanochemical Route. *Journal of Materials Science Letters*, 15, 1996, s.1161-1163  
Zahr.WOS: ONODA, H., NARIAI, H., MAKI, H.: *J.Mater.Synth.Proces.*, 10, 2002, 3, s. 121-126  
Zahr.WOS: ONODA, H., NARIAI, H., MAKI, H.: *Mater.Chem.Phys.*, 78, 2002, 2, s. 400-404

**DUSZA, J. - ŠAJGALÍK, P. - RUDNAYOVÁ, E. - HVIZDOŠ, P. - LENČÉŠ, Z.**: Fracture Characterization of Silicon Nitride Based Layered Composites. In: *Fracture Mechanics of Ceramics*. Vol.12. New York, Plenum Press 1996, s.383-398  
Zahr.WOS: KUSUNOSE, T., SEKINO, T., CHOA, YH., NIIHARA, K.: *Journal of the American Ceramic Society*, 85, 2002, 11, s. 2678-2688

**PARILÁK, L.**: Medzinárodná konferencia z oblasti práškovej metalurgie. Kovové materiály, 34, 1996, 6, s.394-395  
Dom.iné: FABIANOVÁ, J.: *Technológie zmeny vlastností*. Prešov : FVT TU, 2002. 93 s.

**BESTERCI, M. - ZRNÍK, J. - KOVÁČ, L.**: Creepovo-únavové charakteristiky disperzne spevneného materiálu Al-Al<sub>4</sub>C<sub>3</sub>. Pokroky práškové metalurgie VÚPM, 34, 1996, 4, s.26-31  
Zahr.WOS: DZENIS, YA., SAUNDERS, I.: *International Journal of Fracture*, 117, 2002, 4, s. L23-L28

**BESTERCI, M. - ŠLESÁR, M. - ZRNÍK, J. - KOVÁČ, L.**: Microstructural Changes Induced by Superplastic Like Deformation in the Dispersion Strengthened System. Pokroky práškové metalurgie VÚPM, 34, 1996, 4, s.32-38  
Zahr.WOS: DZENIS, YA., SAUNDERS, I.: *International Journal of Fracture*, 117, 2002, 4, s. L23-L28

**LOFAJ, F. - USAMI, H. - OKADA, A. - KAWAMOTO, H.**: Long-Term Creep Damage Development in a Self-Reinforced Silicon Nitride. In: *Engineering Ceramics 96: Higher Reliability through Processing*. NATO Advanced Research Workshop. Smolenice, 12.-15.5.1996. Dordrecht, Kluwer Acad.Publ. 1996, s.337-352  
Zahr.WOS: de ARELLANO-LOPEZ, AR., VARELA-FERIA, FM., MARTIINEZ-FERNANDEZ, J.: *Materials Science and Engineering A*, 332, 2002, 1-2, s. 295-300

**KOVAL, V. - BRIANČIN, J.**: Effect of Polling Process on the Piezoelectric and Dielectric Properties of Nb and Sr-Doped PZT Ceramics. *Ferroelectrics*, 193, 1997, s.41-49  
Zahr.WOS: SERAJI, S., WU, Y., LIMMER, S.: *Materials Science and Engineering B*, 88, 2002, 1, s. 73-78

**DUSZA, J. - ESCHNER, T. - RUNDGREN, K.**: Hardness Anisotropy in Bimodal Grained Gas Pressure Sintered Si<sub>3</sub>N<sub>4</sub>. *Journal of Materials Science Letters*, 16, 1997, s.1664-1667  
Zahr.WOS: NAKAMURA, M., HIRAO, K., YAMAUCHI, Y.: *Wear*, 252, 2002, 5-6, s. 484-490  
Zahr.WOS: PETZOW, G. - HERRMANN, M.: *Structure and Bonding*, 102, 2002, s. 47-167

**BESTERCI, M. - ŠLESÁR, M. - KOVÁČ, L.**: Influence of Strain Rate on Fracture of Dispersion Strengthened Al-Al<sub>4</sub>C<sub>3</sub> Systems. *Scripta Materialia*, 37, 1997, 7, s.1077-1080  
Scopus: BOSTAN, B., ÖZDEMİR, AT.: Proceeding of the 3rd International Powder Metallurgy Conference, 2002, s. 1339-1347  
Scopus: OZCATALBAS, Y., ARIK, H.: Proceedings of the 3rd International Powder Metallurgy Conference, 2002, s. 827-834

**LOFAJ, F. - OKADA, A. - KAWAMOTO, H.**: Cavitation Strain Contribution to Tensile Creep in Vitreous Bonded Ceramics. *Journal of the American Ceramic Society*, 80, 1997, 6, s.1619-1623  
Zahr.WOS: de ARELLANO-LOPEZ, AR., VARELA-FERIA, FM., MARTIINEZ-FERNANDEZ, J.: *Materials Science and Engineering A*, 332, 2002, 1-2, s. 295-300

**LOFAJ, F.** - CAO, J.W. - OKADA, A. - KAWAMOTO, H.: Comparison of Creep Behaviour and Creep Damage Mechanisms in the High-Performance Silicon Nitrides. In: 6th International Symposium on Ceramic Materials and Components for Engines. Arita, 19.-24.10.1997, s.713-718

Zahr.WOS: KLEMM, H.: Journal of the European Ceramic Society, 22, 2002, 14-15, s. 2735-2740

Zahr.WOS: RENDTEL, P., RENDTEL, A., HUBNER, H.: Journal of the European Ceramic Society, 22, 2002, 12, s. 2061-2070

Zahr.WOS: LUECKE, WE.: Journal of the American Ceramic Society, 85, 2002, 2, s. 408-414

**BALÁŽ, P.** - BÁLINTOVÁ, M. - BASTL, Z. - **BRIANČIN, J.** - ŠEPELÁK, V.: Characterization and Reactivity of Zinc Sulphide Prepared by Mechanochemical Synthesis. Solid State Ionics, 101-103, 1997, s.45-51

Zahr.WOS: TAKACS, L.: Prog.Mater.Sci., 47, 2002, 4, s. 355-414

Zahr.WOS: IIO, K., HAYASHI, A., MORIMOTO, H.: Chem.Mater., 14, 2002, 6, s. 2444-2449

**SELECKÁ, M.** - **BUREŠ, R.**: Microstructure of Powder Fe-1,5Mo Material after Sintering with Boron Liquid Phase in Vacuum and Hydrogen. In: Metallography 98. Stará Lesná, 22.-24.4.1998. Ed. I.Hrivňák. Košice, ÚMV SAV 1998, s.436-439

Zahr.iné: ROSENBERG, G.: Přínos metalografie pro řešení výrobních problémů. 9. konference. Lázně Libverda, 19.-21.6.2002. Praha : FS ČVUT, 2002, s. 364-365

**DUDROVÁ, E.** - **KABÁTOVÁ, M.** - **PARILÁK, L.** - DANNINGER, H. - **KUPKOVÁ, M.**: Fracture Toughness of Sintered Steels. In: 1998 Powder Metallurgy World Congress and Exhibition. Granada, 18.-22.10.1998. Shrewsbury, EPMA 1998, s.650-655

Dom.iné: FABIANOVÁ, J.: Technológie zmeny vlastností. Prešov : FVT TU, 2002. 93 s.

**DUSZA, J.** - STEEN, M.: Microhardness Load Size Effect in Individual Grains of a Gas Pressure Sintered Silicon Nitride. Journal of the American Ceramic Society, 81, 1998, 11, s.3022-3024

Zahr.WOS: NAKAMURA, M., HIRAO, K., YAMAUCHI, Y.: Wear, 252, 2002, 5-6, s. 484-490

Zahr.WOS: ZHOU, LJ., HUANG, Y., XIE, ZP.: Journal of the European Ceramic Society, 22, 2002, 8, s. 1347-1355

**BESTERCI, M.** - **KOHÚTEK, I.** - **SÜLLEIOVÁ, K.** - SAXL, I.: Analysis of Spatial Arrangement of Particles in Thin Foil of Al-Al<sub>4</sub>C<sub>3</sub> Material. Journal of Materials Science, 34, 1999, s.1055-1060

Scopus: BOSTAN, B., ÖZDEMİR, AT.: Proceeding of the 3rd International Powder Metallurgy Conference, 2002, s. 1339-1347

**PARILÁK, L.** - **DUDROVÁ, E.**: The State of Research and Development in PM in Slovak Republic. In: Deformation and Fracture in Structural PM Materials. Vol.1. Piešťany, 19.-22.9.1999. Ed. L.Parilák, H.Danninger. Košice, ÚMV SAV 1999, s.18-27

Dom.iné: FABIANOVÁ, J.: Technológie zmeny vlastností. Prešov : FVT TU, 2002. 93 s.

**DUDROVÁ, E.** - **PARILÁK, L.** - **KABÁTOVÁ, M.** - DANNINGER, H.: Fracture Toughness of Sintered Steel. In: Deformation and Fracture in Structural PM Materials. Vol.1. Piešťany, 19.-22.9.1999. Ed. L.Parilák, H.Danninger. Košice, ÚMV SAV 1999, s.250-260

Dom.iné: MOON, JR.: Powder Metallurgy Progress, 2, 2002, 2, s. 63-80

**JANOVEC, J.** - **VÝROSTKOVÁ, A.** - PERHÁČOVÁ, J. - **HOMOLOVÁ, V.** - GRABKE, H.J. - **ŠEVC, P.** - LUCAS, M.: Effect of Vanadium on Grain Boundary Segregation of Phosphorus in Low Alloy Steels. Steel Research, 70, 1999, 7, s.269-273

Kvalif.práce: KORYTKO, P.: Vplyv sekundárnej metalurgie na kvalitu ocele. Doktorandská dizertačná práca. Košice : HF TU, 2002

**LOFAJ, F.** - OKADA, A. - IKEDA, Y. - MIZUTA, Y. - USAMI, H. - KAWAMOTO, H.: Microstructural Degradation Accompanying Tensile Creep Deformation in Quasi-Ductile Silicon Nitride. Key Engineering Materials, 175-176, 1999, s.321-334

Zahr.WOS: LUECKE, WE.: Journal of the American Ceramic Society, 85, 2002, 2, s. 408-414

**DUSZA, J.** - STEEN, M.: Fractography and Fracture Mechanics Property Assessment of Advanced Structural Ceramics. In: International Materials Reviews, 44, 1999, s.165-216

Zahr.WOS: MORRELL, R. - KÜBLER, J.: Key Engineering Materials, 223, 2002, s. 19-26

Zahr.WOS: DANZER, R.: Key Engineering Materials, 223, 2002, s. 1-18

**DUSZA, J.** - ŠAJGALÍK, P. - STEEN, M.: Fracture Toughness of a Silicon Nitride/Silicon Carbide Nanocomposite at 1350 C. Journal of the American Ceramic Society, 82, 1999, 12, s.3613-3615

Zahr.WOS: ROUXEL, T.: Materials Science Forum, 383, 2002, s. 3-11

Zahr.WOS: KUSUNOSE, T., SEKINO, T., CHOA, YH., NIIHARA, K.: Journal of the American Ceramic Society, 85, 2002, 11, s. 2678-2688

**LOFAJ, F.** - OKADA, A. - KAWAMOTO, H.: Tensile Creep Degradation in Quasi-Ductile Silicon Nitride. Key Engineering Materials, 166, 1999, s.95-102

Zahr.WOS: LUECKE, WE.: Journal of the American Ceramic Society, 85, 2002, 2, s. 408-414

**ŠLESÁR, M.** - DUDROVÁ, E. - PARILÁK, I. - KABÁTOVÁ, M.: Fractographical Analysis of Sintering Processes in Fe Powder Compacts. Science of Sintering, 32, 2000, Spec.Iss., s.83-96

Zahr.WOS: DANNINGER, H., SONNTAG, U., KUHNERT, B.: Praktische Metallographie, 39, 2002, 8, s. 414-425

STROBL, S. - KUPKOVÁ, M. - DANNINGER, H. - KUPKA, M. - **DUDROVÁ, E.** - **KOVÁČ, L.** - GÜRTENHOFER, R.: Cellular Material Consisting of Gravity Sintered Metallic Hollow Spheres - its Structure and Properties under Static Compression. In: Fractography 2000. International Conference. Stará Lesná, 15.-18.10.2000. Ed. L.Parilák. Košice, ÚMV SAV 2000, s.446-449

Zahr.iné: Handbook of Cellular Metals. Production, Processing, Applications. Ed. H.-P.Degischer, B.Kriszt. Wiley-VCH, 2002, s. 69

**JANOVEC, J.** - GRMAN, D. - PERHÁČOVÁ, J. - LEJČEK, P. - PATSCHEIDER, J. - **ŠEVC, P.**: Thermodynamics of Phosphorus Grain Boundary Segregation in Polycrystalline Low-Alloy Steels. Surface and Interface Analysis, 30, 2000, 1, s.354-358

Zahr.WOS: CASTLE, JE.: Surface and Interface Analysis, 33, 2002, p. 203-210

**BLACH, J.**: Vplyv tepelných expozícií na porušovanie austenitickej nehrdzavejúcej ocele. Kovové materiály, 38, 2000, 5, s.315-328

Dom.WOS: BALÍK, J., JANEČEK, M., HAKL, J.: Kovové materiály, 40, 2002, 5, s. 307-320

**LOFAJ, F.** - OKADA, A. - IKEDA, Y. - KAWAMOTO, H.: Creep Processes in the Advanced Silicon Nitride Ceramics. Key Engineering Materials, 171-174, 2000, s.747-754

Zahr.WOS: de ARELLANO-LOPEZ, AR., VARELA-FERIA, FM., MARTIINEZ-FERNANDEZ, J.: Materials Science and Engineering A, 332, 2002, 1-2, s. 295-300

**LOFAJ, F.**: Tensile Creep Behaviour in an Advanced Silicon Nitride. Materials Science and Engineering A, 279, 2000, s.61-72

Zahr.WOS: LUECKE, WE.: Journal of the American Ceramic Society, 85, 2002, 2, s. 408-414

ŠAJGALÍK, P. - HNATKO, M. - **LOFAJ, F.** - HVIZDOŠ, P. - **DUSZA, J.** - WARBICHLER, P. - HOFFER, F. - RIEDEL, R. - LECOMTE, E. - HOFFMANN, M.J.: SiC/Si<sub>3</sub>N<sub>4</sub> Nano/Micro-Composite-Processing, RT and HT Mechanical Properties. Journal of the European Ceramic Society, 20, 2000, s.453-462

Zahr.WOS: YOSHIYA, M. - TATSUMI, K. - TANAKA, I.: Journal of the American Ceramic Society, 85, 2002, 1, s. 109-112

Zahr.WOS: KIM, H.D. - HAN, B.D. - PARK, D.S.: Journal of the American Ceramic Society, 85, 2002, 1, s. 245-252

Scopus: LIN, M.T. - JIANG, D.Y. - WANG, L., RUAN, ML., SHI, JL.: Chinese Journal of Materials Research, 16, 2002, 1, s. 37-40

Zahr.WOS: JANAKIRAMAN, A., WEINMANN, M., SCHUHMACHER, J., MULLER, K., BILL, J., ALDINGER, F., SINGH, P.: Journal of the American Ceramic Society, 85, 2002, 7, s. 1807-1814

Zahr.WOS: DING, S., WEN, GW., LEI, TQ.: Journal of Inorganic Materials, 17, 2002, 5, s. 1013-1018

Zahr.WOS: PETZOW, G. - HERRMANN, M.: Structure and Bonding, 102, 2002, s. 47-167

**BESTERCI, M.** - IVAN, J. - **KOVÁČ, L.**: Influence of Al<sub>2</sub>O<sub>3</sub> Particles Volume Fraction on Fracture Mechanism in the Cu-Al<sub>2</sub>O<sub>3</sub> System. Materials Letters, 46, 2000, s.181-184

Zahr.WOS: MENG, XK., SHEN, H., VEHOFF, H.: Journal of Materials Research, 17, 2002, 4, s. 790-796

**ŠALAK, A. - SELECKÁ, M. - KERESTI, R. - PARILÁK, L.**: Mechanical Properties of Sintered Fe-Mn-Cr-Mo-V Steels. In: 2000 Powder Metallurgy World Congress. PM 2000. Abstracts. Kyoto, 12.-16.11.2000, s.51  
*Dom.iné:* TORRALBA, JM., CAMPOS, M.: Powder Metallurgy Progress, 2, 2002, 3, s. 177-186

**JAKUBÉCZYOVÁ, D. - BLACH, J. - FÁBEROVÁ, M.**: Vplyv prídatkov Co, Nb a Ti na štruktúru a vlastnosti PM rýchloreznej ocele. Kovové materiály, 39, 2001, 4, s.278-288

*Dom.iné:* PAVLÍČKOVÁ, M. - VOJTEČH, D. - NOVÁK, P.: DFPM 2002. Deformation and Fracture in Structural PM Materials. Ed. Ľ.Parilák, H.Danninger. Vol. 1. Stará Lesná, 15.-18.9.2002. Košice : ÚMV SAV, 2002, s. 271-277

**CENIGA, L.**: Internal Stresses and Barkhausen Noisse of Fe<sub>8</sub>B<sub>2</sub>O Amorphous Alloy Treated by Annealing and Hydrogenation-Dehydrogenation Processes. Materials Science and Engineering B, 79, 2001, s.154-158

*Zahr.WOS:* JURICOVA, A., CSACH, K., OCELÍK, V.: Czechoslovak Journal of Physics A, 52, 2002, Suppl., s. 125-128

**DŽUBINSKÝ, M. - KOVÁČ, F.**: Influence of Heat Cycling on Microstructural Parameters of Fe-3%Si Grain Oriented Steel. Scripta Materialia, 45, 2001, s.1205-1211

*Zahr.iné:* Precipitation and Texture Studies of Laboratory Processed Grain Oriented Electrical Steels. Report No. SL/SSE/R/H7823/2/02/D. Corus UK Limited 2002, s. 13

**JAKUBÉCZYOVÁ, D. - BLACH, J.**: Mikroštruktúra PM rýchlorezných ocelí a vplyv tepelného spracovania na distribúciu karbidov. Hutnické listy, 56, 2001, 4/5, s.28-33

*Zahr.iné:* LAŠČEK, M., KADLEC, R., MUTIŠOVÁ, L.: 40. EAN. 40. Mezinárodní konference experimentální analýzy napětí. Praha, 3.-6.6.2002

**LOFAJ, F. - WIEDERHORN, S.M. - LONG, G.G. - JEMIAN, P.R. - FERBER, M.K.**: Cavitation Creep in the Next Generation Silicon Nitride. In: Ceramic Materials and Components for Engines. Goslar, 5.2000. Ed. J.G.Heinrich, F.Aldinger. Weinheim, Wiley-VCH 2001, s.487-493

*Zahr.WOS:* LUECKE, WE.: Journal of the American Ceramic Society, 85, 2002, 2, s. 408-414

*Zahr.WOS:* ROEBBEN, G., DUAN, RG., SCITI, D.: Journal of the European Ceramic Society, 22, 2002, 14-15, s. 2501-2509

**LOFAJ, F. - WIEDERHORN, S.M. - JEMIAN, P.R. - LONG, G.G.**: Tensile Creep in the Next Generation Silicon Nitride. Ceramic Engineering and Science Proceedings, 22, 2001, 3, s.167-174

*Zahr.WOS:* PETZOW, G. - HERRMANN, M.: Structure and Bonding, 102, 2002, s. 47-167

**ŠALAK, A. - SELECKÁ, M. - BUREŠ, R.**: Manganese in Ferrous Powder Metallurgy. Powder Metallurgy Progress, 1, 2001, 1, s.41-58

*Dom.iné:* KREMEL, S., DANNINGER, H., YU, Y.: Powder Metallurgy Progress, 2, 2002, 4, s. 211-221

**JIANG, J. - SAKSL, K. - RASMUSSEN, H. - WATANUKI, T. - ISHIMATSU, N. - SHIMOMARA, O.**: High-Pressure X-Ray Diffraction of Icosahedral Zr-Al-Ni-Cu-Ag Quasicrystals. Applied Physics Letters, 79, 2001, 8, s.1112-1114

*Zahr.WOS:* PASZKOWICZ, W.: Nuclear Instruments and Methods in Physics Research B, 198, 2002, 3-4, s. 142-182

*Zahr.WOS:* STADNIK, ZM., RAPP, O., SRINIVAS, V.: Journal of Physics: Condensed Mat., 14, 2002, 27, s. 6883-6896

**ŠEVC, P. - JANOVEC, J. - LEJČEK, P. - ZÁHUMENSKÝ, P. - BLACH, J.**: Thermodynamics of Phosphorus Grain Boundary Segregation in 17Cr12Ni Austenitic Steel. Scripta Materialia, 46, 2002, s.7-12

*Zahr.WOS:* CASTLE, JE.: Surface and Interface Analysis, 33, 2002, p. 203-210

**BESTERCI, M. - VELGOSOVÁ, O. - KOVÁČ, L.**: Superplastic Deformation of Al-Al<sub>4</sub>C<sub>3</sub> Composites Prepared by Powder Metallurgy. Materials Letters, 54, 2002, s.124-130

*Scopus:* OZCATALBAS, Y., ARIK, H.: Proceedings of the 3rd International Powder Metallurgy Conference, 2002, s. 827-834

**LEŠKO, A. - KOLLÁROVÁ, M. - PARILÁK, L.**: Deformation and Fracture of Hot Dip Galvanized Steel Sheets. Kovové materiály, 40, 2002, 1, s.1-10

*Zahr.WOS:* ZMRZLÝ, M., SCHNEEWEISS, O., FIALA, J.: Chemické listy, 96, 2002, s. S257-S259

JIANG, J. - SAKSL, K. - SAIDA, J. - INOUE, A. - FRANZ, H. - MESSEL, K. - LATHE, C.: Evidence of Polymorphous Amorphous-to-Quasicrystalline Phase Transformation in  $Zr_{6,7}Pd_{3,3}$  Metallic Glass. *Applied Physics Letters*, 80, 2002, s.781-783

*Zahr.WOS:* STADNIK, ZM., RAPP, O., SRINIVAS, V.: *Journal of Physics: Condensed Mat.*, 14, 2002, 27, s. 6883-6896

*Zahr.WOS:* SORDELET, DJ., ROZHKOVA, E., BESSER, MF.: *Applied Physics Letters*, 80, 2002, 25, s. 4735-4737

HNATKO, M. - ŠAJGALÍK, P. - LENČÉŠ, Z. - MONTEVERDE, F. - DUSZA, J. - WARBICHLER, P. - HOFFER, F.: Low Cost SiC/Si<sub>3</sub>N<sub>4</sub> Nanocomposites. *Key Engineering Materials*, 206, 2002, s.1061-1064

*Scopus:* ZHANG, AF., LIU, JP.: *Modern Chemical Industry*, 22, 2002, suppl., s. 62-65