

GKSS-Publikationsliste 2009

ISI-gelistete und veröffentlichte Publikationen

AEM

Topic 1

1. Abu Leil, T.; Hort, N.; Dietzel, W.; Blawert, C.; Huang, Y.; Kainer, K.U.; Rao, K.P.: Microstructure and corrosion behavior of Mg-Sn-Ca alloys after extrusion. In: Transactions of Nonferrous Metals Society of China . Vol. 19 (2009) 1, 40 - 44. (DOI: 10.1016/S1003-6326(08)60225-3) IF 0.321
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3. Blawert, C.; Heitmann, V.; Scharnagl, N.; Stoermer, M.; Lutz, J.; Prager-Duschke, A.; Manova, D.; Maendl, S.: Different Underlying Corrosion Mechanism for Mg Bulk Alloys and Mg Thin Films. In: Plasma Processes and Polymers. Vol. 6 (2009) S1, S690 - S694. (DOI: 10.1002/ppap.200932405) IF 2.921
4. Bohlen, J.; Dobron, P.; Hantzsche, K.; Letzig, D.; Chmelik, F.; Kainer, K.U.: Acoustic emission study of the deformation behaviour of magnesium sheets. In: International Journal of Materials Research. Vol. 100 (2009) 6, 790 - 795. (DOI: 10.3139/146.110114) IF 0.819
5. Dieringa, H.; Hort, N.; Kainer, K.U.: Investigation of minimum creep rates and stress exponents calculated from tensile and compressive creep data of magnesium alloy AE42. In: Materials Science and Engineering A. Vol. 510-511 (2009) 382 - 386. (DOI: 10.1016/j.msea.2008.06.051) IF 1.806
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7. Fechner, D.; Blawert, C.; Hort, N.; Kainer, K.U.: Recycling of magnesium drive train components. In: Science in China E. Vol. 52 (2009) 1, 148 - 154. (DOI: 10.1007/s11431-008-0288-1) IF 0.495
8. Ferri, O.M.; Ebel, T.; Bormann, R.: High cycle fatigue behaviour of Ti-6Al-4V fabricated by metal injection moulding technology. In: Materials Science and Engineering A. Vol. 504 (2009) 1-2, 107 - 113. (DOI: 10.1016/j.msea.2008.10.039) IF 1.806
9. Feyerabend, F.; Fischer, J.; Holtz, J.; Witte, F.; Willumeit, R.; Druucker, H.; Vogt, C.; Hort, N.: Evaluation of short-term effects of rare earth and other elements used in magnesium alloys on primary cells and cell linesstar, open. In: Acta Biomaterialia. (2009) (DOI: 10.1016/j.actbio.2009.09.024) IF 3.727
10. Fuskova, L.; Bohlen, J.; Yi, S.; Letzig, D.: Ueber das Ermuedungsverhalten der Magnesiumknetlegierungen - On the Fatigue Behaviour of Wrought Magnesium Alloys. In: MP Materials Testing. Vol. 51 (2009) 9, 542 - 546. (DOI: sting.de/directlink.asp?MP110071) IF 0.123
11. Hantzsche, K.; Wendt, J.; Kainer, K.U.; Bohlen, J.; Letzig, D.: Mg Sheet: The Effect of Process Parameters and Alloy Composition on Texture and Mechanical Properties. In: JOM: Journal of the Minerals, Metals and Materials Society. Vol. 61 (2009) 8, 38 - 42. IF 1.485

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13. Khan, S.; Hort, N.; Eiken, J.; Steinbach, I.; Schmauder, S.: Numerical Determination of Heat Distribution and Castability Simulations of as Cast Mg - Al Alloys. In: Advanced Engineering Materials. Vol. 11 (2009) 3, 162 - 168. (DOI: 10.1002/adem.200800269) IF 1.506
14. Liang, J.; Srinivasan, P.B.; Blawert, C.; Stoermer, M.; Dietzel, W.: Electrochemical corrosion behaviour of plasma electrolytic oxidation coatings on AM50 magnesium alloy formed in silicate and phosphate based electrolytes. In: Electrochimica Acta. Vol. 54 (2009) 14, 3842 - 3850. (DOI: 10.1016/j.electacta.2009.02.004) IF 3.078
15. Liang, J.; Srinivasan, P.B.; Blawert, C.; Dietzel, W.: Comparison of electrochemical corrosion behaviour of MgO and ZrO₂ coatings on AM50 magnesium alloy formed by plasma electrolytic oxidation. In: Corrosion Science. Vol. 51 (2009) 10, 2483 - 2492. (DOI: 10.1016/j.corsci.2009.06.034) IF 2.293
16. Nwaogu, U.C.; Blawert, C.; Scharnagl, N.; Dietzel, W.; Kainer, K.U.: Influence of inorganic acid pickling on the corrosion resistance of magnesium alloy AZ31 sheet. In: Corrosion Science. Vol. 51 (2009) 11, 2544 - 2556. (DOI: 10.1016/j.corsci.2009.06.045) IF 2.293
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21. Srinivasan P. B., Zettler R., Blawert C., Dietzel W.: A study on the effect of plasma electrolytic oxidation on the stress corrosion cracking behaviour of a wrought AZ61 magnesium alloy and its friction stir weldment; In: Materials Characterization, Vol. 60, 5, (2009) 389-396. IF 1.225
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27. Srinivasan, P.B.; Liang, J.; Blawert, C.; Stoermer, M.; Dietzel, W.: Effect of current density on the microstructure, corrosion behaviour of plasma electrolytic oxidation treated AM50 magnesium alloy. In: *Applied Surface Science*. Vol. 255 (2009) 7, 4212 - 4218. (DOI: 10.1016/j.apsusc.2008.11.008) IF 1.576
28. Srinivasan, P.B.; Riekehr, S.; Blawert, C.; Dietzel, W.; Kocak, M.: Slow strain rate stress corrosion cracking behaviour of as-welded and plasma electrolytic oxidation treated AZ31HP magnesium alloy autogenous laser beam weldment. In: *Materials Science and Engineering A*. Vol. 517 (2009) 1-2, 197 - 203. (DOI: 10.1016/j.msea.2009.03.069) IF 1.806
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Topic 2

32. Amancio, S.; dos Santos, J.: Joining of polymers and polymer-metal hybrid structures: Recent developments and trends. In: *Polymer Engineering & Science*. Vol. 49 (2009) 8, 1461 - 1476. (DOI: 10.1002/pen.21424) IF 1.245
33. Brocks, W.: Cracks and Plasticity. In: *Advanced Engineering Materials*. Vol. 11 (2009) 3, 137 - 142. (DOI: 10.1002/adem.200800307) IF 1.506
34. Coelho, R.S.; Kostka, A.; dos Santos, J.; Pyzalla, A.R.: EBSD Technique Visualization of Material Flow in Aluminum to Steel Friction-stir Dissimilar Welding. In: *Advanced Engineering Materials*. Vol. 10 (2009) 12, 1127 - 1133. (DOI: 10.1002/adem.200800227) IF 1.506
35. Daneshpour, S.; Kocak, M.; Langlade, S.; Horstmann, M.: Effect of overload on fatigue crack retardation of aerospace Al-alloy laser welds using crack-tip plasticity analysis. In: *International Journal of Fatigue*. Vol. 31 (2009) 10, 1603 - 1612. (DOI: 10.1016/j.ijfatigue.2009.04.005) IF 1.556
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38. Heerens, J.; Schoedel, M.: Characterisation of stable crack extension in aluminium-sheet material using the crack tip opening angle determined optically and by the delta 5 clip gauge technique. In: Engineering Fracture Mechanics. Vol. 76 (2009) 1, 101 - 113. (DOI: 10.1016/j.engfracmech.2008.04.009) IF 1.713
39. Huebner, P.; Zerbst, U.; Berger, M.; Brecht, T.: The fracture of a wobbler in a heavy plate mill. In: Engineering Failure Analysis. Vol. 16 (2009) 4, 1097 - 1108. (DOI: 10.1016/j.engfailanal.2008.06.021) IF 0.441
40. Lilleodden, E.: Novel techniques for nanomechanical characterization, JOM, Vol. 61 (3) (2009) 1047-4838 (DOI: 10.1007/s11837-009-0035-5) IF 1.485
41. Martinson, P.; Daneshpour, S.; Kocak, M.; Riekehr, S.; Staron, P.: Residual stress analysis of laser spot welding of steel sheets. In: Materials and Design. Vol. 30 (2009) 9, 3351 - 3359. (DOI: 10.1016/j.matdes.2009.03.041) IF 1.107
42. Mosler, J.; Bruhns, O.T.: Towards variational constitutive updates for non-associative plasticity models at finite strain: Models based on a volumetric-deviatoric split. In: International Journal of Solids and Structures. Vol. 46 (2009) 7 - 8, 1676 - 1684. (DOI: 10.1016/j.ijsolstr.2008.12.008) IF 1.809
43. Mosler, J.; Cirak, F.: A variational formulation for finite deformation wrinkling analysis of inelastic membranes. In: Computer Methods in Applied Mechanics and Engineering. Vol. 198 (2009) 27-29, 2087 - 2098. (DOI: 10.1016/j.cma.2009.02.001) IF 2.129
44. Mosler, J.; Ortiz, M.: An error-estimate-free and remapping-free variational mesh refinement and coarsening method for dissipative solids at finite strains. In: International Journal of Numerical Methods in Engineering. Vol. 77 (2009) 3, 437 - 450. (DOI: 10.1002/nme.2428) IF 2.229
45. Scheider, I.: Derivation of separation laws for cohesive models in the course of ductile fracture. In: Engineering Fracture Mechanics. Vol. 76 (2009) 10, 1450 - 1459. (DOI: 10.1016/j.engfracmech.2008.12.006) IF 1.713
46. Uz, M.-V.; Kocak, M.; Lemaitre, F.; Ehrstroem, J.-E.; Kempa, S.; Bron, F.: Improvement of damage tolerance of laser beam welded stiffened panels for airframes via local engineering. In: International Journal of Fatigue. Vol. 31 (2009) 5, 916 - 926. (DOI: 10.1016/j.ijfatigue.2008.10.003) IF 1.556
47. Vaidya, M.V.; Horstmann, M.; Ventzke, V.; Petrovski, B.; Kocak, M.; Kocik, R.; Tempus, G.: Structure-property investigations on a laser beam welded dissimilar joint of aluminium AA6056 and titanium Ti6Al4V for aeronautical applications, Part I: Local gradients in microstructure, hardness and strength. In: Materialwissenschaft und Werkstofftechnik. Vol. 40 (2009) 8, 623 - 633. (DOI: 10.1002/mawe.200900366) IF 0.356
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50. Zerbst, U.; Lunden, R.; Edel, K.-O.; Smith, R.A.: Introduction to the damage tolerance behaviour of railway rails. In: Engineering Fracture Mechanics. Vol. 76 Paris (F), 10.-11.05.2007, (2009) 17, 2563 - 2601. (DOI: 10.1016/j.engfracmech.2009.09.003) IF 1.713
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Topic 3

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60. Kricheldorf, H.R.; Behnken, G.; Schwarz, G.; Simon, P.; Brinkmann, M.: High Molar Mass Poly(trimethylene carbonate) by Ph2BiOEt and Ph2BiBr-Initiated Ring-Opening

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- Polymerizations. In: Journal of Macromolecular Science A. Vol. 46 (2009) 4, 353 - 359. (DOI: 10.1080/10601320902724800) IF 0.720
61. Leon, A.; Zabara, O.; Sartori, S.; Eigen, N.; Dornheim, M.; Klassen, T.; Mueller, J.; Hauback, B.; Fichtner, M.: Investigation of (Mg, Al, Li, H)-based hydride and alanate mixtures produced by reactive ball milling. In: Journal of Alloys and Compounds. Vol. 476 (2009) 1-2, 425 - 428. (DOI: 10.1016/j.jallcom.2008.09.023) IF 1.510
62. Loos, M.R.; Gomes, D.: In situ-polymerization of fluorinated polyoxadiazole with carbon nanotubes in poly(phosphoric acid). In: Materials Letters. Vol. 63 (2009) 8, 694 - 696. (DOI: 10.1016/j.matlet.2008.11.042) IF 1.748
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PNI

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