Instructions for Authors

Journal of Materials Engineering & Performance publishes contributions on all aspects of materials selection and design, processing, characterization, and evaluation. The scope of the journal is to develop and apply fundamental principles relating to materials behavior, properties and theory to engineering practice. These materials include structural ceramics, metals and their alloys, structural polymers, biomaterials, nanomaterials, and ceramic, metal and polymer-matrix composites either being developed or currently in use in engineering applications. Papers on concrete, electronic materials, glass, pottery, rubber and non-structural polymers and wood, as well as those solely dealing with engineering design and mechanics, fall outside the scope of the journal.

Correlations between material type, processing, and component performance are emphasized. Submissions relating to an improvement in materials properties through processes, such as casting, forming, welding, heat treatment, surface modification and coating, fabrication, and the control of these processes, are encouraged. Papers reporting testing and characterization of materials for engineering applications, such as mechanical and physical property tests, nondestructive evaluation, metallography, failure analysis and fracture morphologies, corrosion testing, chemical analysis, surface characterization, microanalysis of surfaces, and wear testing, are relevant.

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R.A. Miller, P. Agarwal, and E.C. Duderstadt, Life Modeling of Atmospheric and Low Pressure Plasma Sprayed Thermal Barrier Coatings, Ceram. Eng. Sci Proc., 1984, 5(78), p 470–478, in German

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H. Grein, De la cavitation: une vue d’ensemble (Cavitation: An Overview), Rev. Tech. Sulzer, 1974, p 87–112 (in French)

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Example: Authors, Article Title, Book Title, edition, Editor(s), Date of conference (Location of Conference), Conference Sponsor, Publisher, year, pages

J. Sickfield, Pull-off Test, Adhesion Aspects of Polymeric Coatings, 2nd ed., K.L. Mittal, Ed., Sept 15–18, 1980 (Paris), Plenum Press, 1983, p 543–567

J. Wilden, S. Jahn, S. Reich, G. Fischer, and V.E. Drescher, FeNiW-Coatings for Casting Molds in the Aluminium Industry, Thermal Spray 2008: Thermal Spray Crossing the Borders, on CD-ROM, E. Lugscheider, Ed., June 2-4, 2008 (Maastricht, The Netherlands), DVS-German Welding Society, 2008

6. References to online documents should be referenced either by the DOI or should include the full web address and date of access.

M.K. Slifka and J.L. Whitton, Clinical implications of dysregulated cytokine production. J Mol Med., 2000, doi:10.1007/s001090000086

J. Cartwright, Big stars have weather too. IOP Publishing Physics Web, http://physicsweb.org/articles/news/11/6/16/1, 2007. Accessed 26 June 2007

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Example: Author (if available), “Standard Title,” Standard Number, Name of Standards Organization, year, page numbers

“Test Method for Acid and Base Number by Color Indicator Titration,” C 633, Annual Book of ASTM Standards, Part 17, ASTM, 1986, p 636–642

P.H. Hutton, “An Acoustic Emission Zone Monitor and Recorder for BWR Pipe-Cracking Detection,” EPRI NP-1408, Electric Power Research Institute, June 1980

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Examples:

J. Smith, “ABC Coatings—A New Technology,” AAA Company, New York, NY, promotional literature, undated

P.A. Siemers and W.B. Hillig, “Thermal Barrier Coated Turbine Blade Study,” NASA Cr-165351, NASA-LeRC, Cleveland, OH, Aug 1981

P. Ostojoc, “The Adhesion of Thermally Sprayed Coatings,” Ph.D. Thesis, Monash University, 1986

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