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ANNOUNCEMENT

2163 **Adrian Mann appointed *JMR* Associate Editor, Biomaterials**

Gordon Pike

RAPID COMMUNICATIONS

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2168–2171 **Teflon AF/Ag nanocomposites with tailored optical properties**

H. Eilers, A. Biswas, T.D. Pounds, M. Grant Norton, M. Elbahri

2172–2175 **Novel metallurgical process for titanium production**

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OUTSTANDING MEETING PAPER

2176–2184 **Interface control in all metalorganic deposited coated conductors: Influence on critical currents**

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2191–2197 **Crystalline-hydrated barium phenylphosphonate as a host for n-alkyldiamine intercalation**

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2198–2203 **Graphitization-induced microstructural changes in tetrahydrofuran-derived pyrolytic carbon spheres**

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2204–2214 **Improving glass-forming ability of Mg–Cu–Y via substitutional alloying: Effects of Ag versus Ni**

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2215–2223 **Devitrification behavior around supercooled liquid region of an Al₈₅Ni₅Y₈Co₂ metallic glass**

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2224–2231 **Shearing tests of solder joints on tape ball grid array substrates**

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2232–2240 **Fabrication and photoluminescence properties of core-shell structured spherical SiO₂@Gd₂Ti₂O₇:Eu³⁺ phosphors**

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2241–2245 **Reservoir effect and the role of low current density regions on electromigration lifetimes in copper interconnects**

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2246–2254 **Consecutive solvent evaporation and co-rolling techniques for polymer multilayer hollow fiber preform fabrication**

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- 2290–2297 **Immobilization and photocatalytic efficiency of titania nanoparticles on silica carrier spheres** Cheng-Yu Kuo, Shih-Yuan Lu
- 2298–2303 **Instrumented indentation microscope: A powerful tool for the mechanical characterization in microscales** M. Sakai, N. Hakiri, T. Miyajima
- 2304–2313 **Shear strength determination using the nanoscratch technique and its application to thin solid films** Ki Myung Lee, Andreas A. Polycarpou
- 2314–2322 **Preparation and anode property of Pt-CeO₂ electrodes supported on carbon black for direct methanol fuel cell applications** Motoi Takahashi, Toshiyuki Mori, Ajayan Vinu, Hidehiko Kobayashi, John Drennan, Ding-Rong Ou
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- 2354–2360 **A textured barium niobate with enhanced temperature stability of dielectric constant for high-frequency applications** Dong-Wan Kim, Byung-Kook Kim, Hae-June Je, Jae-Gwan Park, Jeong-Ryeol Kim, Kug Sun Hong
- 2361–2370 **Effect of grain boundary characteristics on hot tearing in directional solidification of superalloys** Yizhou Zhou, Andreas Volek, Robert F. Singer
- 2371–2378 **Mechanism for controlling the shape of Cu nanocrystals prepared by the polyol process** Seung I. Cha, Chan B. Mo, Kyung T. Kim, Yong J. Jeong, Soon H. Hong
- 2379–2388 **Thermal conductivity of diamond films deposited at low surface temperatures** D. Das, Raj N. Singh, S. Chattopadhyay, K.H. Chen
- 2389–2392 **Thermal recoverability of a polyelectrolyte-modified, nanoporous silica-based system** F.B. Surani, A. Han, Y. Qiao
- 2393–2400 **Photostructural modifications in poly(methylphenylsilylene) thin films: Excitation wavelength and atmosphere dependence** B.G. Potter, Jr., H. Chandra, K. Simmons-Potter, G.M. Jamison, W.J. Thomes, Jr.
- 2401–2407 **Abnormal thermal shock behavior of Ti₃SiC₂ and Ti₃AlC₂** H.B. Zhang, Y.C. Zhou, Y.W. Bao, M.S. Li
- 2408–2414 **Characterization of the Aurivillius phases in the vicinity of the Bi₅AgNb₄O₁₈ compound** Xing Hu, Danilo Suvorov
- 2415–2421 **Microstructure and mechanical strength of diffusion-bonded Ti₃SiC₂/Ni joints** X.H. Yin, M.S. Li, Y.C. Zhou
- 2422–2428 **Sliding wear, viscoelasticity, and brittleness of polymers** Witold Brostow, Haley E. Hagg Lobland, Moshe Narkis

ERRATUM

- 2429 **Erratum: “Structure and microwave dielectric properties of Ca_{1-x}Y_xTi_{1-x}Al_xO₃ (CYTA) ceramics” [J. Mater. Res. 20, 2391 (2005)]** Antonio Feteira, Derek C. Sinclair, Michael T. Lanagan