

# University of Central Florida

## Advanced Materials Processing and Analysis Center (AMPAC)

### Faculty Publications

#### 2000

- J. Naciri, J. Y. Fang, D. Shenoy, C. Dulcey, R. Shashidhar, "Photosensitive Triethoxysilane Derivatives for Alignment of Liquid Crystals". *Chemistry of Materials* 2000, 12, 3288.
- P. A. Heiney, K. Grueneberg, J. Y. Fang, "Growth and Structure of Chromophores Functionalized Aminosilane Self-Assembled Monolayers". *Langmuir* 2000, 16, 2651.
- L. An. "Contact damage behavior of textured and random alumina ceramics under Hertzian indentation" *Journal of the American Ceramic Society*, 83, 410-12 (2000).

#### 1999

- "On the relationship of high coercivity and L10 ordered phase in CoPt and FePt thin films," R.A. Ristau, K. Barmak, L.H. Lewis, K. R. Coffey, and J. K. Howard, *Journal of Applied Physics*, vol. 86, no. 8, p. 4527-4533, Oct. 1999.
- "Grain growth in ultrathin films of CoPt and FePt," R.A. Ristau, K. Barmak, K.R. Coffey, and J.K. Howard, *Journal of Materials Research*, vol. 14, no. 8, p. 3263-3270, Aug. 1999.
- J. Y. Fang, U. Gehlert, R. Shashidhar, C. M. Knobler, "Imaging the Azimuthal Tilt Order in Monolayers by liquid crystal Optical Amplification". *Langmuir* 1999, 15, 297. (It is featured on the cover of *Langmuir* ).
- A. Buzin, Y. K. Godovsky, N. N. Makarova, J. Y. Fang, X. Wang, C. M. Knobler, "Stepwise Collapse of Monolayers of Cycloliner Polysiloxanes at the Air-Water Interface". *Journal of Physical Chemistry B* 1999, 103, 11372.
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- "An EFTEM and conical dark field investigation of co-sputtered CoPt+Yttria stabilized zirconia thin films," R.A. Ristau, F. Hofer, K. Barmak, K. R. Coffey, and J.K. Howard, *Micron*, vol. 29, no. 1, p. 33-41, Feb. 1998.
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- R. Riedel, L.M. Ruwisch, L. An and R. Raj. "Amorphous silicoboron carbonitride ceramics with anomalously high resistance to creep" *Journal of the American Ceramic Society*, 81, 3341-3344 (1998).
- L. An, R. Riedel, C. Konetachny, H.J. Kleebe and R. Raj. "Newtonian viscosity of amorphous silicon carbonitride at high temperature" *Journal of the American Ceramic Society*, 81, 1349-52 (1998).
- L. An, H.C. Ha and H.M. Chan. "High-strength alumina/alumina calcium hexaluminate layer composites" *Journal of the American Ceramic Society*, 81, 3321-3324 (1998).

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- R. A. Uphaus, J. Y. Fang, R. Picorel, G. Chumanov, J. Y. Wang, T. M. Cotton, M. Seibert, "X-ray Diffraction Studies of Isolated Photosystem II Reaction Centers in Monolayers and Multilayers". *Photochemistry and Photobiology* 1997, 65, 673.
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- L. An, S. Wu, H.M. Chan, M.P. Harmer and D. Brandon. "Alumina platelet reinforced reaction bonded aluminum oxide (RBAO): textured and random" *Journal of Materials Research*, 12, 3300-06 (1997).

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- "Antiferromagnetic interlayer correlations in annealed Ni<sub>80</sub>Fe<sub>20</sub>/Ag multilayers," J.A. Borchers, P.M. Gehring, R.W. Erwin, J. F. Ankner, C. F. Majkrzak, T. L. Hylton, K. R. Coffey, M.A. Parker, and J. K. Howard, *Physical Review B*, vol. 54, no. 14, p. 9870-9882, Oct. 1996.
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