

Ajdari A., J. P. Carton, G. H. Fredrickson, L. Leibler, and D. T. Wu, "Distribution of chain ends at the surface of a polymer melt: Compensation effects and surface tension," *J. Polym. Sci. Part B*, Vol. 33, pg. 2373 (1995)

Arauz-Lara, J. L., H. Ruiz-Estrada, and M. Medina-Noyola, "Tracer-diffusion in colloidal mixtures," *J. Colloid Interface Sci.*, Vol. 171, pg. 127 (1995)

Arizmendi, L. and F. Agulló-López, "LiNbO₃: A paradigm for photorefractive materials," *Bul. Mat. Res. Soc.*, Vol. 20, pg. 32 (1995)

Attfield, M. P., R. E. Morris, E. Gutierrez-Puebla, A. Monge-Bravo and A. K. Cheetham, "Synthesis and structure of a novel microporous gallophosphate, Na₃Ga₅(PO₄)O₂(OH)22H₂O," *J. Chem. Soc. Chem. Commun.*, Vol. 8, pg. 843 (1995)

Attfield, M. P., R. E. Morris, I. Burshtein, C. F. Campana and A. K. Cheetham, "Synthesis and characterization of a one-dimensional aluminophosphate: Na₄Al(PO₄)₂(OH)," *J. Solid State Chemistry*, Vol. 118, pg. 412 (1995)

Auerbach, S. M., N. J. Henson, A. K. Cheetham and H. I. Metiu, "Transport theory for cationic zeolites: Diffusion of benzene in Na-Y," *J. Phys. Chem.*, Vol. 99, pg. 10600 (1995)

Awschalom, D. D. and D.P. DiVincenzo, "Complex dynamics of mesoscopic magnets," *Physics Today*, Vol. 48, pg. 43 (1995)

Balmer, M. L., F. F. Lange, V. Jayaram and C. G. Levi, "Development of nano-composite microstructures in ZrO₂-Al₂O₃ via the solution precursor method," *J. Am. Ceram. Soc.*, Vol. 78, pg. 1489 (1995)

Birnir, B., Galdrkian, B., and Sherwin, M., "Nonlinear multi-photon resonances in quantum wells," *Phys. Lett. A.*, Vol. 203, pg. 319 (1995)

Bull, L. M., A. K. Cheetham, B. M. Powell, J. A. Ripmeester and C. I. Ratcliffe, "The interaction of sorbates with acid sites in zeolite catalysts: A powder neutron diffraction and 2H NMR study of benzene in H-SAPO-37," *J. of Amer. Chem. Soc.*, Vol. 117, pg. 4328 (1995)

Chaubal, C. V., G. H. Fredrickson and L. G. Leal, "A comparison of closure approximations for the Doi theory of LCPs," *J. Rheology*, Vol. 39, pg. 73 (1995)

Chien, A. T., J. S. Speck, F. F. Lange, A. C. Daykin and C. G. Levi, "Low temperature/low pressure hydrothermal synthesis of barium titanate: Powder and heteroepitaxial thin films," *J. Mater. Res.*, Vol. 10, pg. 1784 (1995)

Chiruvolu, S., E. Naranjo, J. Israelachvili, J. Zasadzinski, "Forces between bilayers of mixed anionic-cationic surfactants," *Langmuir*, Vol. 11, pg. 4256 (1995)

Chiruvolu, S., J. N. Israelachvili, E. Naranjo, Z. Xu, E. W. Kaler, K. L. Herrington and J. Zasadzinski, "Measurement of forces between spontaneous vesicle-forming bilayers," *Langmuir*, Vol. 11, pg. 4256 (1995)

Cristofolini, L., A. Lappas, K. Vavekis, K. Prassides, R. DeRenzi, M. Ricco, A., Schenck, A. Amato, F. N. Gygax, M. Kosaka and K. Tanigaki, " μ +SR study of zero-field and field-induced magnetic ordering in CsC₆₀," *J. Phys. Condensed Matter*, Vol. 7, pg. L567 (1995)

Davidson, P., C. Bourgaux, L. Schouteten, P. Sergot, C. Williams and J. Livage, "A structural study of the lyotropic nematic phase of vanadium pentoxide gels," *J. Phys. II France*, Vol. 5, pg. 1577 (1995)

Degnan, B.M. and D.E. Morse, "Developmental and morphogenetic gene regulation in *Haliotis rufescens* larvae at metamorphosis," *Amer. Zool.*, Vol. 35, pg. 391 (1995)

Degnan, B.M., S. Degnan, A. Giusti and D.E. Morse, "A hox/hom homeobox gene in sponges," *Gene*, Vol. 155, pg. 175 (1995)

Donley, J. P. and G. H. Fredrickson, "Influence of conformational asymmetry on the surface enrichment of polymer blends II," *J. Polym. Sci. Part B*, , Vol. 33, pg. 1343 (1995)

Eiermann, M., R. Haddon, B. Knight, Q.C. Li, M. Maggini, N. Martin, T. Ohno, M. Prato, T. Suzuki, and F. Wudl, "Electrochemical Evidence for Through-space Orbital Interactions in Spiro Methanofullerenes," *Angew. Chem. Int. Ed. Engl.*, Vol. 34, pg. 1591 (1995)

Firouzi, A., D. Kumar, L. M. Bull, T. Besier, P. Sieger, Q. Huo, S. A. Walker, J. A. Zasadzinski, C. Glinka, J. Nicol, D. Margolese, G. D. Stucky and B. F. Chmelka, "Cooperative organization of inorganic-surfactant and biomimetic assemblies," *Science*, Vol. 267, pg. 1138 (1995)

Fredrickson, G. H. and A. J. Liu, "Design of miscible polyolefin copolymer blends," *J. Polym. Sci. Part B*, Vol. 33, pg. 1203 (1995)

Fredrickson, G. H. and D. T. Wu, "Surface segregation in conformationally asymmetric polymer blends: Incompressibility and boundary conditions," *ACS Polymer Preprints*, Vol. 36, pg. 435 (1995)

Fredrickson, G. H., "Analytical solution of a model of Integrin-Cytoskeletal interactions in migrating fibroblasts," *J. de Physique II* (France), Vol. 5, pg. 369 (1995)

Fritz, M., M. Radmacher, J.P. Cleveland, M. W. Allersma, R. J. Stewart, P. Janmey, C. F. Schmidt and P. K. Hansma, "Imaging globular and filamentous proteins in physiological buffer solutions with tapping mode atomic force microscope," *Langmuir*, Vol. 11, pg. 3529 (1995)

Gider, S., and D. D. Awschalom, "Macroscopic quantum tunneling of magnetization in natural and artificial ferritin," invited chapter in the *Proceeding of the NATO Workshop on Quantum Tunneling of the Magnetization* (Kluwer, The Netherlands, 1995), Chapter 2.

Gider, S., D. W. Awschalom, T. Douglas, S. Mann, M. Chaparala, "Classical and quantum magnetic phenomena in natural and artificial ferritin proteins," *Science*, Vol. 268, pg. 77 (1995)

Giles, R., S. Manne, S. Mann, D. E. Morse, G. D. Stucky, and P. K. Hansma, "Inorganic overgrowth of aragonite on molluscan nacre examined by atomic force microscopy," *Biol. Bull.*, Vol. 188, pg. 8 (1995)

Gilhøj, H., C. Jeppesen and O.G. Mouritsen, "Effects of mobile vacancies on the dynamics of ordering and phase separation in non-conserved multi-component systems," *Phys. Rev. E*, Vol. 52, pg. 1465 (1995)

Gilhøj, H., C. Jeppesen and O.G. Mouritsen, "Overshooting effects in non-equilibrium ordering dynamics," *Phys. Rev. Lett.*, Vol. 75, pg. 3305 (1995)

Gonzalez, R., J.C. Hummelen, and F. Wudl, "The specific acid catalyzed and photochemical isomerization of a robust fulleroid to a methanofullerene," *J. Org. Chem* , Vol. 60, pg. 2618 (1995)

Groppe, J.C. and D.E. Morse, "Sequence-independent detection of gene family homologs: Identification of a transcript encoding a molluscan serine protease homologous to the pancreatic enzymes of vertebrates," *Comp. Biochem. Physiol.*, Vol. 110B, pg. 75 (1995)

Henson, N. J., and A. K. Cheetham, "Absorbed molecules in microporous hosts - Computational aspects," *Journal of Inclusion Phenomena and Molecular Recognition in Chemistry*, Vol. 21, pg. 137 (1995)

Hillner, P. E., D. A. Walters, R. Lal, H. G. Hansma and P. K. Hansma, "Combined atomic force and confocal laser scanning microscope," *JMSA*, Vol. 1, pg. 127 (1995)

Ho, S., C. Hillman, F. F. Lange and Z. Suo, "Surface cracking in layers under biaxial, residual compressive stress," *J. Am. Ceram. Soc.*, Vol. 78, pg. 2353 (1995)

Hu Y. and E.F. Matthyss, "Characterization of micellar structure dynamics for a drag-reducing surfactant solution under shear: Normal stress studies and flow geometry effects," *Rheologica Acta*, Vol. 34, pg. 450 (1995)

Hummelen, J. C., B. Knight, J. Pavlovich, R. Gonzalez and F. Wudl, "Isolation of the heterofullerene C59N as its dimer (C59N)2," *Science*, Vol. 269, pg. 1554 (1995)

Hummelen, J.C., B.W. Knight, F. LePeq, F. Wudl, J. Yao, and C.L. Wilkins, "Preparation and characterization of fulleroid and methanofullerene derivatives," *J. Org. Chem.*, Vol. 60, pg. 532 (1995)

Hummelen, J.C., M. Prato, and F.Wudl, "There is a hole in my bucky," *J. Amer. Chem. Soc.*, Vol. 117, pg. 7003 (1995)

Huo, Q., R. Leon, P. M. Petroff, and G. D. Stucky, "Mesostructure Design with Gemini Surfactants: Supercage Formation in a 3-d Hexagonal Array," *Science* , Vol. 268, pg. 1324 (1995)

Idziak, S. H. J., I. Koltover, K. S. Liang, J. N. Israelachvili, and C. R. Safinya, "Study of flow in a smectic liquid crystal in the X-ray surface forces apparatus," *International Journal Thermophysics*, Vol. 16, pg. 299 (1995)

Ipsen, J.H. and C. Jeppesen, "The persistence length in a random surface model," *J. Physique I*, Vol. 5, pg. 1563 (1995)

Janssen, R.A.J., J.C. Hummelen, and F. Wudl, "Photochemical fulleroid to methanofullerene conversion via the Di-Pi-methane (Zimmerman) rearrangement," *J. Am. Chem. Soc.*, Vol. 117, pg. 544 (1995)

Kapolnek, D.,X. Wu, B. Heying, S. Keller, B.P. Keller, U.K. Mishra, S.P. DenBaars, and J.S. Speck, "Structural evolution in epitaxial MOCVD grown GaN films on sapphire, *Appl. Physics. Lett.* , Vol. 67, pg. 1541 (1995)

Keller, B.P., S. Keller, D. Kapolnek, H. Masui, M. Kato, S. Imagi, U.K. Mishra, and S.P. DenBaars, "MOCVD growth of high optical and electrical quality GaN," *Electronics Lett.*, Vol. 31, pg. 1102 (1995)

Keller, B.P., S. Keller, D. Kapolnek, W.-N. Jiang, Y.-F. Wu, H. Masui, X.H. Wu, B. Heying, J.S. Speck, U.K. Mishra, S.P. DenBaars, "MOCVD growth of high quality and high mobility GaN," *J. Electron. Mater.*, Vol. 24, pg. 1707 (1995)

Keshavarz-K., M., B. Knight, G. Srdanov, and F. Wudl, "Cyanodihydrofullerenes and cicyanodihydrofullerene: The first polar solid based on C₆₀," *J. Amer. Chem. Soc.*, Vol. 117, pg. 11371 (1995)

Kolbert, A.C., S. Caldarelli, K.F. Thier, N.S. Sariciftci, Y. Cao, and A.J. Heeger, "NMR evidence for the metallic nature of highly conducting polyaniline", *Phys. Rev. B*, pg. 1541 (1995)

Lappas, A., M. Kosaka, K. Tanigaki and K. Prassides, "Orientational order in AC₆₀ alkali fullerides," in Recent Advances in the Chemistry and Physics of Fullerenes and Related Materials, K.M Kadish and R.S. Ruoff, eds., Electrochemical Society, Pennington, NJ, Vol. 2, pg. 1071 (1995)

Lee, K., A.J. Heeger, and Y. Cao, "Reflectance spectra of polyaniline", *Synth. Met.*, Vol. 72, pg. 25 (1995)

Lee, K., R. Menon, C. O Yoon and A. J. Heeger, "Reflectance of conducting polypyrrole: Observation of the metal-insulator transition driven by disorder," *Physical Review B*, Vol. 52, pg. 4779 (1995)

Lei, N., C. R. Safinya, and R. F. Bruinsma, "Discrete harmonic model for stacked membranes: Theory and experiment," *J. Phys. II (France)* , Vol. 5, pg. 1155 (1995)

Löfvander,J. P. A., F.C. Dary, U. Ruschewitz, and C.G. Levi, "Evolution of a metastable FCC solid solution during sputter deposition of Ti-Al-B alloys," *Materials Science and Engineering.*, Vol. 202, pg. 188 (1995)

Luther, E. P., F. F. Lange and D. S. Pearson, "Alumina surface modification of silicon nitride for colloidal processing," *J. Am. Ceram. Soc.*, Vol. 78, pg. 2009 (1995)

Luther, E. P., G. V. Franks, J. A. Yanez, F. F. Lange and D. S. Pearson, "The effect of ammonium citrate on the rheology and particle packing of alumina slurries," *J. Am. Ceram. Soc.*, Vol. 78, pg. 1495 (1995)

Ma, Q., S. Chiras, D. R. Clarke and Z. Suo, "High resolution determination of the stress in individual interconnect lines and their variation due to electromigration," *Journal of Applied Physics*, Vol. 78, pg. 1614 (1995)

McCormack, S. J. and C. E. Samuel, "Mechanism of Interferon action. RNA-binding activity of full-length and R-Domain forms of the RNA-dependent protein kinase (PKR): Determination of the KD values for VA1 and TAR RNAs," *Virology*, Vol. 206, pg. 511 (1995)

Mead, D. W. and L. G. Leal, "The reptation model with segmental stretch: I. Basic equations and general properties," *Rheol. Acta*, Vol. 34, pg. 339 (1995)

Mead, D. W., D. Yavich and L. G. Leal, "The reptation model with segmental stretch: II. Steady flow properties," *Rheol. Acta*, Vol. 34, pg. 360 (1995)

Mead, D. W., "Evolution of the molecular weight distribution and linear viscoelastic rheological properties during the reactive extrusion of polypropylene," *J. of Appl. Polymer Science*, Vol. 57, pg. 151 (1995)

Moravetski, V. I., V. A. Andryushchenko and L. M. Sheludchenko, "Electronic structure of the carbide phase Fe_{4-y}A_yC_x," *J. Phys. Chem Solids*, Vol. 56, pg. 1085 (1995)

Morris, R.E., J.J. Owen and A.K. Cheetham, "The structure of La₄Ti₉O₂₄ from synchrotron X-ray powder diffraction," *J. Phys. Chem. Solids*, Vol. 56, pg. 1297 (1995)

Mouritsen, O.G., B. Dammann, H.C. Fogedby, J.H. Ipsen, C. Jeppesen, K. Jørgensen, J. Risbo, M.C. Sabra, M.M. Sperotto, and M.J. Zuckermann, "The computer as a laboratory for the physical chemistry of membranes," *Biophys. Chem.*, Vol. 55, pg. 55 (1995)

Narwankar, P. K., J. S. Speck and F. F. Lange, "Phase partitioning and epitaxy of Zr(Al)O₂ thin films on cubic zirconia substrates," *J. Mater. Res.*, Vol. 10, pg. 1756 (1995)

Netz, R. R. and P. Pincus, "Inhomogeneous fluid membranes: Ordered phases and effective rigidity," *Phys. Rev. E*, Vol. 52, pg. 4114 (1995)

Prassides, K., "Solid state properties of fullerenes - An overview," in Recent Advances in the Chemistry and Physics of Fullerenes and Related Materials, K.M. Kadish and R.S. Ruoff, eds., Electrochemical Society, Pennington, NJ, Vol. 2, pg. 785 (1995)

Schmitt, F-J., H. Yoshizawa, A. Schmidt, G. Duda, W. Knoll, G. Wegner, J. Israelachvili, "Adhesion energy hysteresis and friction between ultrathin polyglutamate films measured with the surface forces apparatus," *Macromolecules*, Vol. 28, pg. 3401 (1995)

Seifert, A., F. F. Lange and J. S. Speck, "Epitaxial growth of PbTiO₃ thin films on (001) SrTiO₃ from solution precursors," *J. Mater. Res.*, Vol. 10, pg. 680 (1995)

Shi, J., J. M. Kikkawa, R. Proksch, T. Schaeffer, D. D. Awschalom, G. Medeiros-Ribeiro and P. M. Petroff, "Assembly of submicron ferromagnets in GaAs semiconductors," *Nature*, Vol. 377, pg. 707 (1995)

Speck, J.S., A. C. Daykin, A. Seifert, A. E. Romanov and W. Pompe, "Domain configurations due to multiple misfit relaxation mechanisms in epitaxial ferroelectric thin films. III. Interfacial defects and domain misorientations," *J. Appl. Phys.*, Vol. 78, pg. 1696 (1995)

Srikant, V., E.J. Tarsa, D.R. Clarke, and J.S. Speck, "Crystallographic orientation of epitaxial BaTiO₃ films: The role of thermal expansion mismatch with the substrate," *J. Appl. Phys.*, Vol. 77, pg. 1517 (1995)

Subramanian, G., D.R.M. Williams, and P.A. Pincus, "Escape Transitions and Force Laws for Compressed Polymer Mushrooms," *Europhys. Lett.*, Vol. 29, pg. 285 (1995)

Tanaka, H. and C. E. Samuel, "Sequence of the murine Interferon-inducible RNA-dependent protein kinase (PKR) deduced from genomic clones," *Gene*, Vol. 153, pg. 283 (1995)

Tanigaki, K. and K. Prassides, "Alkali C₆₀ molecular conductors and superconductors," *J. Mater. Chem.*, Vol. 5, pg. 1515 (1995)

Tu, W. C. and F. F. Lange, "Liquid precursor infiltration and pyrolysis of powder compacts, I: Kinetic studies and microstructure development," *J. Am. Ceram. Soc.*, Vol 78, pg. 3277 (1995)

Tu, W. C. and F. F. Lange, "Liquid precursor infiltration and pyrolysis of powder compacts, II: Fracture toughness and strength," *J. Am. Ceram. Soc.*, Vol. 78, pg. 3283 (1995)

Viswanathan, R., D. K. Schwartz, L.L. Madsen and J. A. Zasadzinski, "Liquid to hexatic to crystal transition in Langmuir-Blodgett films," *Science*, Vol. 269, pg. 51 (1995)

Vitale, G., L. M. Bull, R. E. Morris, A. K. Cheetham, B. H. Toby, C. G. Coe and J. E. MacDougall, "Combined neutron and X-ray powder diffraction study of zeolite Ca LSX and a 2H NMR study of its complex with benzene," *J. of Phys. Chem.*, Vol. 99, pg. 16087 (1995)

Vitale, G., L.M. Bull and A.K. Cheetham, "Neutron diffraction studies of the acid form of zeolite Y and its complex with benzene," *J. Chem. Soc., Chem. Comm.*, Vol. 22, pg. 2253 (1995)

Vitale, G., L.M. Bull, R.E. Morris, A.K. Cheetham, B.H. Toby, C.G. Coe, and J.E. MacDougall, "Powder neutron diffraction, X-ray diffraction and $^{2\text{H}}$ NMR study of zeolite Ca-LSX and its complex with benzene," *J. Phys. Chem.*, Vol. 99, pg. 16087 (1995)

Walker, S.A. and J. A. Zasadzinski, "Self-assembly of silicate surfactant mesophases," *Mat. Res. Soc. Symp. Proc.*, Vol. 371, pg. 93 (1995)

Warner, J.K., A.K. Cheetham and D.E. Cox, "Determination of the cation distribution in $\text{NiFe}_2(\text{PO}_4)_2$ by resonant X-ray and neutron powder diffraction," *J. Appl. Cryst.*, Vol. 28, pg. 494 (1995)

Weier, H-U.G., George, C.X., Greulich, K.M., and Samuel, C.E., "The interferon-inducible, double-stranded RNA-specific adenosine deaminase gene (DSRAD) maps to human chromosome 1q21.1-21.2," *Genomics*, Vol. 30, pg. 372 (1995)

Wilhelm, M., A. Firouzi, D.E. Favre, L.M. Bull, D.J. Schaefer, and B.F. Chmelka, "Dynamics of benzene adsorbed on Ca-LSX zeolite studied by two-dimensional exchange ^{13}C NMR," *J. Am. Chem. Soc.*, Vol. 117, pg. 2923 (1995)

Wu, D. T., and G. H. Fredrickson, "Surface Segregation and End Distribution in Polymer Blends and Melts: Incompressibility and Boundary Conditions," Proceedings of the XXXth Rencontre de Moriond, Villars sur Ollon, Switzerland, Editions Frontieres, Gif-sur-Yvette, France, (1995)

Wu, D. T., G. H. Fredrickson, J.-P. Carton, A. Ajdari, and L. Leibler, "Distribution of Chain Ends at the Surface of a Polymer Melt: Compensation Effects and Surface Tension," *J. Polym. Sci. Part B*, Vol. 33, pg. 2373 (1995)

Youngman, R.E., S.T. Haubrich, J.W. Zwanziger, M. Janicke, and B.F. Chmelka, "Intermediate-Range Structural Ordering in Glassy Boron Oxide," *Science*, Vol. 269, pg. 1416 (1995)