

2003 Peer Reviewed Publications

Cao, Y., **Q. Ge**, **D.J. Dyer** and **L. Wang** (2003) Steric effects on the adsorption of alkylthiolate self-assembled monolayers on Au(111). *J. Phys. Chem. B* 107: 3803-3807

Chen, S. (2003) Langmuir monolayers of gold nanoparticles: from ohmic to rectifying charge transfer. *Anal. Chim. Acta* 496: 29-37

Dubenko, I.S., M.S. Rao, S. Roy, **B.C. Dave** and N. Ali (2003) Magnetic behavior of iron-oxo clusters prepared in an organosilica sol-gel matrix. *J. Appl. Phys.* 93: 7816-7818

Dyer, D.J., and J. Feng (2003) Responsive polymer substrates by nanoengineering with surface initiated polymerization. *Polymer Preprints* 44: 230-231

Dyer, D.J., J. Feng, R. Paul, R. Schmidt and T. Zhao (2003) Photoinitiated polymerization of styrene from alkylthiolate self-assembled monolayers: Kineics and grafting density. *Polymer Preprints* 44: 433-434

Dyer, D.J., J. Wolf, C. Li, C. Landorf, B. Brown, J. Mass, E. Conlin and T. Zhao (2003) Design and synthesis of noncentrosymmetric hydrogen bonded main chain liquid crystalline polymers: towards polar order in organic thin films. *Polymer Preprints* 44: 578-579

Dyer, D.J., J. Wolf, C. Li, C. Landorf, and T. Zhao (2003) Surface alignment of hydrogen bonded main chain liquid crystalline polymers. *Polymer Preprints* 44: 713-714

Fan, J., **S. Chen** and **Y. Gao** (2003) Coating gold nanoparticles with peptide molecules via a peptide elongation approach. *Colloids Surf., B: Biointerfaces* 28: 199-207

Fan, J., J. Lu, R. Xu, R. Jiang and **Y. Gao** (2003) Use of water-soluble Fe₂O₃ nanoparticles with narrow size distributions in isolating avidin. *J. Collid Interface Sci.* 266: 215-218

Feng, J., and **D.J. Dyer** (2003) Effect of initiator structure on photochemical polymerization of styrene from self-assembled monolayers on gold. *Polymer Preprints* 44: 516-517

Ganguly, A., **C.Y. Meyers** and P.D. Robinson (2003) 2-Acetylphenylboronic acid monohydrate. *Acta Cryst.* E59: o759-o761

Garno, J.C., Y. Yang, N.A. Amro, S. Cruchon-Dupeyrat, **S. Chen** and G.Y. Liu (2003) Precise positioning of nanoparticles on surface using scanning probe lithography. *Nano Lett.* 3: 389-395

Goodson, B.M., C.Y. Ruan, V.A. Lobastov, R. Srinivasan and A.H. Zewail (2003) Ultrafast electron diffraction: complex landscapes of molecular structures in thermal and light-mediated reactions. *Chem. Phys. Lett.* 374: 417-424

Greene, I.A., F. Wu, J.Z. Zhang and **S. Chen** (2003) Electronic conductivity of semiconductor nanoparticle monolayers at the air/water interface. *J. Phys. Chem. B* 107: 5733-5739

Koropchak, J.A., P.M. Rice, J. Mead and D. Wilson (2003) Reinventing the mid-level research university. *J. Higher Ed. Strategists* 1: 11-31

Lasey, R.C., L. Liu, **L. Zang** and M.Y. Ogawa (2003) Peptide-protein interactions: photoinduced electron transfer within the performed and encounter complexes of a designed metalloprotein and cytochrome C. *Biochemistry* 42: 3904-3910

Liu, R., M.W. Holman, **L. Zang** and D.M. Adams (2003) Single-molecule spectroscopy of intramolecular electron transfer in donor-bridge-acceptor systems. *J. Phys. Chem.* 107: 6522-6526

Lu, J., J. Fan, R. Xu, S. Roy, **N. Ali** and Y. Gao (2003) Synthesis of alkyl sulfonate/alcohol-protected γ -Fe₂O₃ nanocrystals with narrow size distributions. *J. Colloid interface Sci.* 258: 427-431

Magnusson, L-E., **J.A. Koropchak**, M.P. Anisimov and V.M. Poznjakovsky (2003) Correlations for vapor nucleating critical embryo parameters. *J. Phys. Chem. Ref. Data*, 32: 1387-1410

Marjanska, M., **B.M. Goodson**, F. Castiglione and A. Pines (2003) NMR studies of inclusion complexes oriented in liquid-crystalline solvents. *J. Chem. Phys. B* 107: 12558-12561

McLean, A.W., **C.Y. Meyers** and P.D. Robinson (2003) 9-(para-tert-butylphenyl)-9-fluoreneol. *Acta Cryst.* E59: o891-o893

McLean, A.W., **C.Y. Meyers** and P.D. Robinson (2003) sp-9-(meta-methylphenyl)-9-fluoreneol. *Acta Cryst.* E59: o1228-o1230

Meyers, C.Y., R. Chan-Yu-King, D.H. Hua, V.M. Kolb, W.S. Matthews, T.E. Parady, T. Horii, P.B. Sandrock, **Y. Hou** and S. Xie (2003) Unexpected differences in the α -halogenation and related reactivity of sulfones with perhaloalkanes in KOH-t-BuOH. *J. org. Chem.* 68: 500-511

Meyers, C.Y., A.W. Mclean and P.D. Robinson (2003) 9-(meta-tert-butylphenyl)-9-fluoreneol. *Acta Cryst.* E59: o978-o980

Meyers, C.Y., P.D. Robinson and A.W. Mclean (2003) ap-9-(ortho-methyl phenyl)-9-fluoreneol, a structure exhibiting several aryl-H...[π](arene) intermolecular interactions. *Acta Cryst.* C59: o712-o714

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Xie, S., **Y. Hou**, **C.Y. Meyers** and P.D. Robinson (2003) (–)-5-ethyl-endo-4-(4-methoxyphenyl)-2, 2, anti-8-trimethyl-6-oxabicyclo[3.2.1]octan-7-one, a bicylic g-lactone. *Acta Cryst.* E59: o406-o407

Xiong, Y., Y. Xie, **S. Chen** and Z. Li (2003) Fabrication of self-supported patterns of aligned β -FeOOH nanowires by a low-temperature solution reaction. *Chem. Eur. J.* 9: 4991-4996

You, J., and **J.A. Koropchak** (2003) Condensation nucleation light scattering detection with ion chromatography for direct determination of glyphosphate and its metabolite in water. *J. Chromatogr.* 989: 231-238

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Yang, Y., K.M. Grant, H.S. White and **S.Chen** (2003) Magnetochemistry of nitrothiophenolate-functionalized gold nanoparticles. *Langmuir* 19: 9446-9449

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