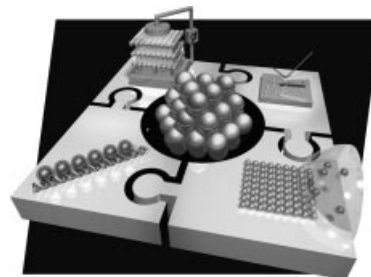


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COVER PICTURE

The cover picture shows one-, two- and three-dimensional arrays of nanoparticles (represented by the cluster in the centre). The bottom right corner illustrates the self-assembly of a monolayer of nanoparticles from a drop of solution. Also displayed is the AFM imaging of nanoparticles (top right), the interaction of a nanoparticle array with an electrical field (top left), and the immobilisation of nanoparticles on DNA (bottom left). All these interactive aspects of research on nanoparticles that are used as building blocks for organized systems are covered in a series of papers in this issue. The artwork was performed by Michael Noyong, RWTH Aachen.



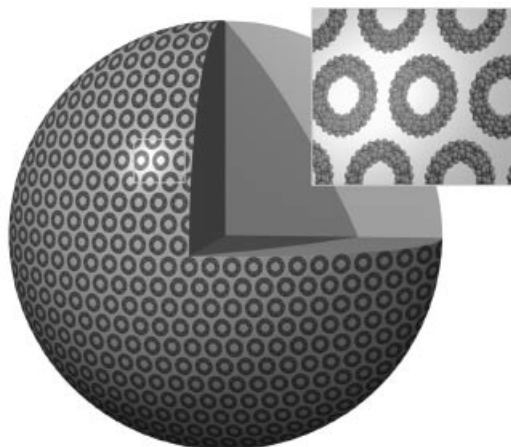
MICROREVIEWS

Contents

3561 A. Müller,* S. Roy

Linking Giant Molybdenum Oxide Based Nano-
 Objects Based on Well-Defined Surfaces in Dif-
 ferent Phases

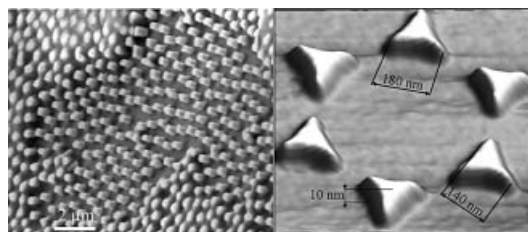
Keywords: Hydrophilic surfaces / Monolayers / Nano-
 chemistry / Polyoxomolybdates / Surfactant-
 encapsulated clusters / Surface structures /
 Vesicles



3571 M. Giersig,* M. Hilgendorff*

Magnetic Nanoparticle Superstructures

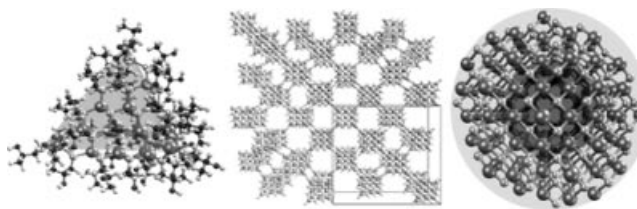
Keywords: Nanoparticles / Ferrofluids / Nanosphere lithography / Nanoshadows



3585 J. Frenzel, J.-O. Joswig, P. Sarkar,
G. Seifert, M. Springborg*

The Effects of Organisation, Embedding and Surfactants on the Properties of Cadmium Chalcogenide (CdS, CdSe and CdS/CdSe) Semiconductor Nanoparticles

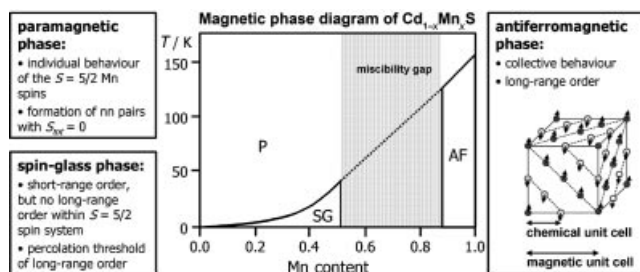
Keywords: Cadmium sulfide / Cluster compounds / Density-functional calculations / Nanostructures / Semiconductors



3597 F. J. Brieler, P. Grundmann, M. Fröba,*
L. Chen, P. J. Klar,* W. Heimboldt,
H.-A. Krug von Nidda, T. Kurz, A. Loidl

Comparison of the Magnetic and Optical Properties of Wide-Gap (II,Mn)VI Nanostructures Confined in Mesoporous Silica

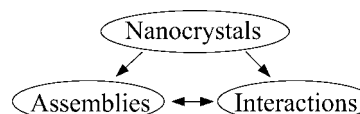
Keywords: Mesoporous materials / Diluted magnetic semiconductors / Host-guest systems / Nanostructures / $\text{Cd}_{1-x}\text{Mn}_x\text{S}$ / $\text{Cd}_{1-x}\text{Mn}_x\text{Se}$ / $\text{Zn}_{1-x}\text{Mn}_x\text{S}$



3613 A. Shavel, N. Gaponik, A. Eychmüller*

The Assembling of Semiconductor Nanocrystals

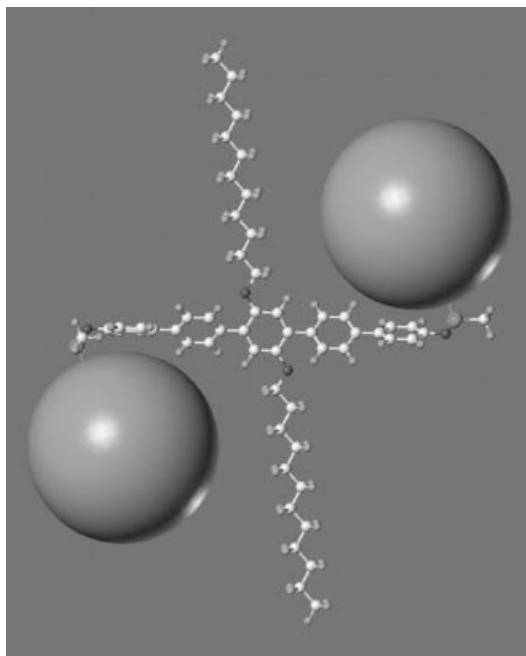
Keywords: Nanostructures / Colloids / Layer-by-layer assembly / Interactions



- 3625** F. Wen, N. Waldöfner, W. Schmidt,
K. Angermund, H. Bönnemann,* S. Modrow,
S. Zinoveva, H. Modrow, J. Hormes,
L. Beuermann, S. Rudenkiy,
W. Maus-Friedrichs, V. Kempter,
T. Vad, H.-G. Haubold

Formation and Characterization of Pt Nano-
particle Networks

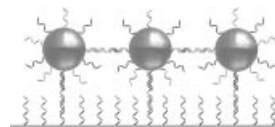
Keywords: Colloids / Cross-linking / Nanostructures /
Platinum / Self-assembly



- 3641** C. M. Niemeyer,* U. Simon*

DNA-Based Assembly of Metal Nanoparticles

Keywords: DNA / Materials science / Nanoparticles /
Self-Assembly / Supramolecular Chemistry

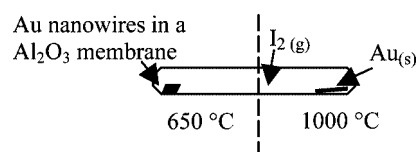
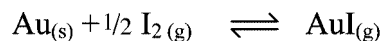


SHORT COMMUNICATION

- 3657** R. Köppe,* G. Schmid, S. Schneider,
H. Schnöckel*

Template-Fabricated Gold Nanowires from Gas-
Phase Transport Reactions

Keywords: Chemical vapour transport / Gold / Iodine /
Nanostructures / Template synthesis

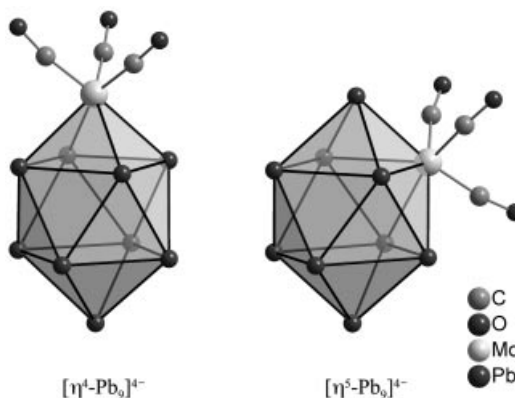


FULL PAPERS

- 3663** L. Yong, S. D. Hoffmann, T. F. Fässler*

Crystal Structures of $[\text{K}(2.2.2\text{-crypt})]_4[\text{Pb}_9\text{Mo}(\text{CO})_3]$ – Isolation of the Novel Isomers $[(\eta^5\text{-Pb}_9)\text{Mo}(\text{CO})_3]^{4-}$ beside $[(\eta^4\text{-Pb}_9)\text{Mo}(\text{CO})_3]^{4-}$

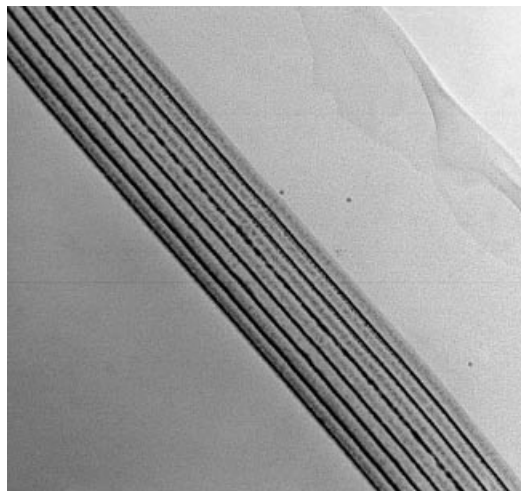
Keywords: Cluster compounds / Cryptands / Isomers /
Packing / Zintl anions



3670 T. Reuter, S. Neumeier, G. Schmid,*
E. Koplin, U. Simon

Generation and Characterization of Multilayer Systems Consisting of $\text{Au}_{55}(\text{PPh}_3)_{12}\text{Cl}_6$ Double Layers and SiO_2 Barrier Films

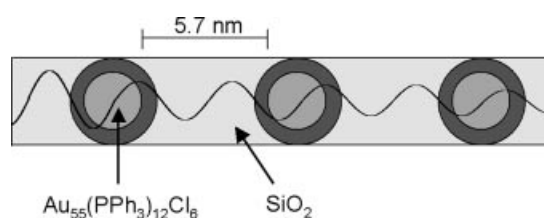
Keywords: Gold / Multilayers / Impedance spectroscopy / Bénard–Marangoni effect / Crystallisation



3679 S. Neumeier, T. Reuter, G. Schmid*

The Electronic Interaction Between $\text{Au}_{55}(\text{PPh}_3)_{12}\text{Cl}_6$ Monolayers Through SiO_2 Films

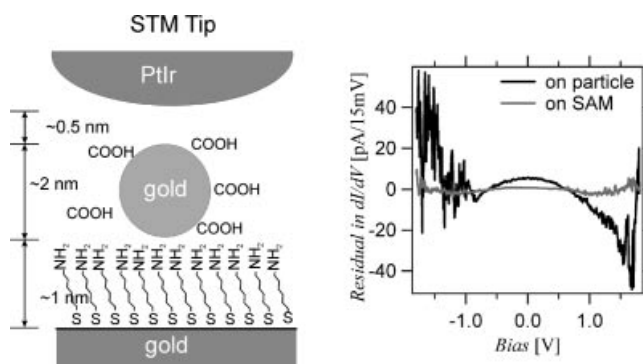
Keywords: Monolayers / Gold / Multilayers / Electronic tunnelling / Current-voltage characteristics



3683 V. Jacobsen, T. Zhu, W. Knoll, M. Kreiter*

Current-Voltage Characterisation of Monolayer-Supported Au-Nanoclusters by Scanning Tunneling Microscopy under Ambient Conditions

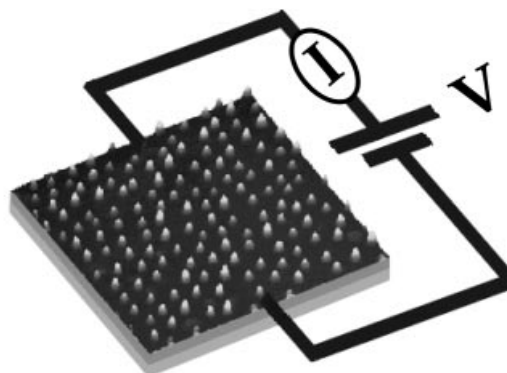
Keywords: Scanning probe microscopy / Surface plasmon resonance / Colloids / Monolayers / Nanostructures / Self-assembly



3691 G. Kästle, A. Schröder, H.-G. Boyen,
A. Plettl, P. Ziemann, O. Mayer, J. Spatz,*
M. Möller, M. Büttner, P. Oelhafen

Electrical Resistivity of Epitaxial Au Films Surface-Modulated by Arrays of Pt Nanoparticles

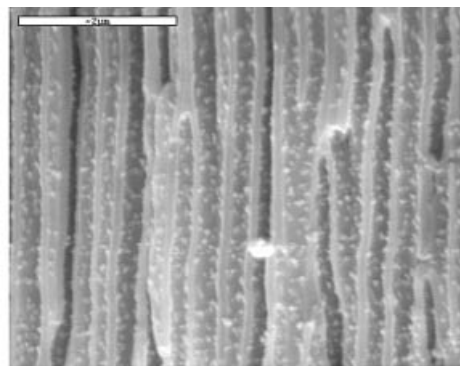
Keywords: Thin films / Gold / Conductivity / Platinum nanoparticles



3699 M. Veith,* J. Frères, P. König, O. Schütt,
V. Huch, J. Blin

Nanoscaled Sn and Pb Particles Aligned in Al_2O_3 Tubes Obtained from Molecular Precursors

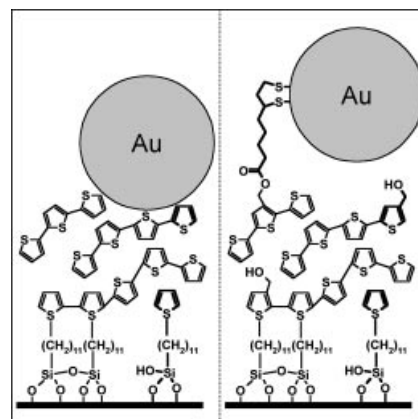
Keywords: Tin and lead clusters / Nanoparticles / Al_2O_3 tubes / Alignment of metal clusters / Alkoxy- and siloxyaluminium amides



3711 C. M. Intelmann, H. Dietz, W. Plieth*

Preparation of Gold Nanoparticles on Ultrathin Films of Polythiophene and Polythiophene Derivatives

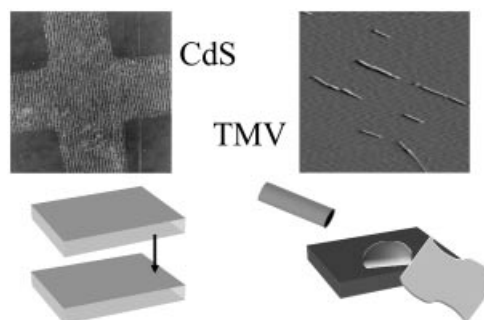
Keywords: Gold / Nanoparticles / Ultrathin films / Polythiophene / Polymer modification



3717 A. M. Bittner,* X. C. Wu, S. Balci,
M. Knez, A. Kadri, K. Kern

Bottom-Up Synthesis and Top-Down Organisation of Semiconductor and Metal Clusters on Surfaces

Keywords: Cadmium sulfide / Nanocrystals / Metal clusters / Microcontact printing / Nanostructures / Template synthesis

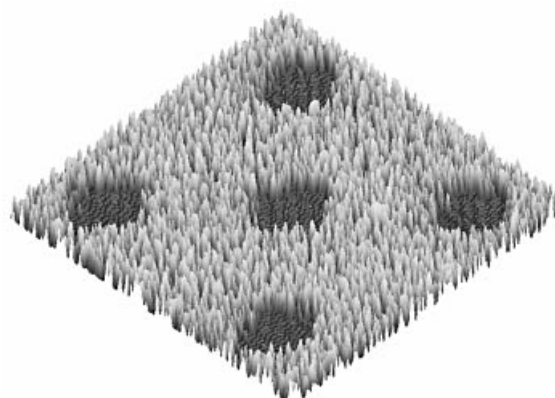


3729 X. C. Wu, L. F. Chi,* H. Fuchs



Patterning of Semiconductor Nanoparticles via Microcontact Printing

Keywords: Microcontact printing / Interaction / Interfaces / Nanocluster / Patterning / Semiconductors

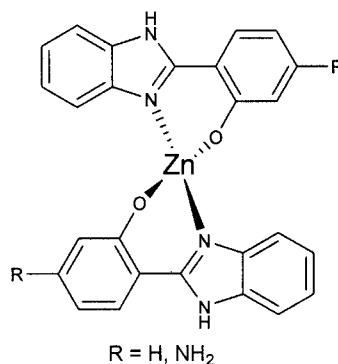


3734 Y.-P. Tong, S.-L. Zheng,* X.-M. Chen*



Structures, Photoluminescence and Theoretical Studies of Two Zn^{II} Complexes with Substituted 2-(2-Hydroxyphenyl)benzimidazoles

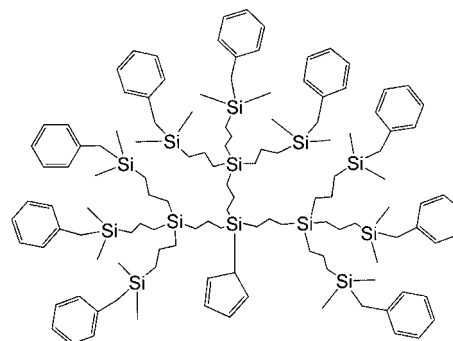
Keywords: Density functional calculations / N,O ligands / Photoluminescence / π interactions / Zinc



3742 R. Andrés,* E. De Jesús,*
F. Javier de la Mata, J. C. Flores, R. Gómez

Carbosilane Dendrons Functionalized at Their Focal Point

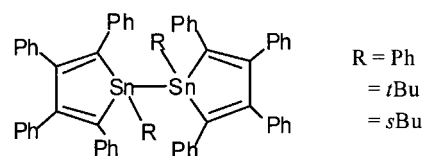
Keywords: Dendrimers / Metallocenes / Silanes / Titanium / Zirconium



3750 M. Saito,* R. Haga, M. Yoshioka

Synthesis and Structures of Bi(1,1-stannole)s

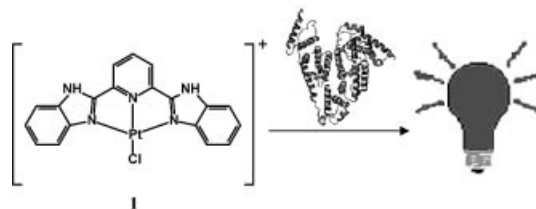
Keywords: Metallacycles / Tin / UV/Vis spectroscopy



3756 V. G. Vaidyanathan, B. U. Nair*

A Platinum(II)-Based Molecular Light Switch for Proteins

Keywords: Fluorescent probes / Platinum / Proteins / Tridentate ligands



3760 C.-M. Jin, C. Ye, C. Piekarski, B. Twamley,
J. M. Shreeve*

Mono and Bridged Azolium Picrates as Energetic Salts

Keywords: Azides / Heats of formation / Ionic liquids / Materials science / Nitrogen heterocycles

