1. Record Nr. UNINA9910464674403321

Titolo	Materials dominated by their interfaces / / by Rolf Hempelmann (ed.)
Pubbl/distr/stampa	Munchen : , : Oldenbourg Verlag Munchen Wien, , [2008] ©2008
ISBN	3-486-59867-8
Descrizione fisica	1 online resource (378 p.)
Collana	Progress physical chemistry ; ; volume 2
Classificazione	VE 7000
Disciplina	530.4/1
Soggetti	Interfaces (Physical sciences) Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Front Matter -- Magnetic Nanorods: Genesis, Self-Organization and Applications / Birringer, Rainer / Wolf, Helmut / Lang, Christian / Tschöpe, Andreas / Michels, Andreas -- Thermodynamic and Structural Investigations of Condensates of Small Molecules in Mesopores / Knorr, Klaus / Huber, Patrick / Wallacher, Dirk -- Precursorchemistry with Metalalkoxides and their Use for Nano-Scaled Materials / Veith, Michael -- One-Dimensional Semiconductor Nanostructures: Growth, Characterization and Device Applications / Mathur, Sanjay / Barth, Sven -- Nanocrystalline Metals Prepared by Electrodeposition / Natter, H. / Hempelmann, R. -- Investigation of Nanocrystalline Materials Using Radioactive Isotopes / Wichert, Th. / Wolf, H. / Guan, Z. / Li, X. -- Theoretical Studies of Structural, Energetic, and Electronic Properties of Clusters / Springborg, Michael / Dong, Yi / Grigoryan, Valeri G. / Tevekeliyska, Violina / Alamanova, Denitsa / Kasabova, Elisaveta / Roy, Sudip / Joswig, Jan-Ole / Asaduzzaman, Abu Md. -- Photoemission Investigation of the L-Gap Surface States on Clean and Rare Gas-Covered Noble Metal (111)-Surfaces / Hüfner, Stefan / Reinert, Friedrich / Schmidt, Stefan / Nicolay, Georg / Forster, Frank -- Computer Simulations of Phase Transitions and Dynamics in Confined Systems / Rieger, Heiko / Paul, Raja / Noh, Jae-Dong / Schehr, Grégory -- Quantitative Evaluation of Elastic Properties of Nano-Crystalline Nickel Using Atomic Force Acoustic Microscopy / Kopycinska-Müller, M.

/ Caron, A. / Hirsekorn, S. / Rabe, U. / Natter, H. / Hempelmann, R. / Birringer, R. / Arnold, W. -- Mechanical Properties of Nanomaterials Examined with a NI-AFM / Vehoff, H. / Yang, B. / Barnoush, A. / Natter, H. / Hempelmann, R. -- Equilibrium and Nonequilibrium Behaviour of Ferrofluids - Experiments and Theory / Embs, Jan Peter / Huke, Björn / Leschhorn, Andreas / Lücke, Manfred -- Combinatorial Fabrication of Thin Film-Libraries and Evaluation of their Piezoelectricity by Ultrasonic Piezo-Mode Imaging / Rende, Daniela / Schwarz, Kerstin / Rabe, Ute / Maier, Wilhelm F. / Arnold, Walter -- Back Matter

Sommario/riassunto

Progress in Physical Chemistry is a collection of recent "Review Articles" published in the "Zeitschrift für Physikalische Chemie". The aim of a "Review article" is to give a profound survey on a special topic outlining the history, development, state of the art and future research. Collecting these articles the Editors of Zeitschrift für Physikalische Chemie intend to counteract the expanding flood of papers and thereby give students and researchers a means to obtain fundamental knowledge on their special interest. The second volume of Progress in Physical Chemistry is a collection of thematically closely related minireview articles written by the members of the Collaborative Research Centre (SFB) 277 of the German Research Foundation (DFG). These articles are based on twelve years of intense coordinated research efforts. Central topics are the synthesis and the characterization of interface-dominated, i.e. nanostructured materials, mainly in the solid state but also as nanoparticles / nanorods in liquid dispersion (ferrofluids) or as gas / liquid in mesoporous host systems (thermodynamics in confinement). For the synthesis physical vapour deposition (PVD), chemical vapour deposition (CVD), electrochemistry, and various sol-gel and microemulsion routes are employed. For the characterization a broad spectrum of methods from physics, materials science and physical chemistry is used, like scattering methods, nuclear hyperfine interaction methods and different types of scanning probe microscopy. The correlation between, on the one hand, the nanostructure and, on the other hand, the thermodynamics, the magnetic and mechanical properties specific to the nanometre scale as well as the theoretical modelling of the same are in the focus of the scientific interest.

2. Record Nr. UNINA9910437829503321

Titolo	DNA alterations in Lynch Syndrome : advances in molecular diagnosis and genetic counselling / / Matjaz Vogelsang, editor
Pubbl/distr/stampa	Dordrecht ; ; New York, : Springer, 2013
ISBN	94-007-6597-5
Edizione	[1st ed. 2013.]
Descrizione fisica	1 online resource (202 p.)
Altri autori (Persone)	VogelsangMatjaz
Disciplina	614.5999
Soggetti	Molecular diagnosis Genetic counseling Syndromes
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Preface -- Historical Development of Lynch Syndrome -- Molecular Mechanisms and Functions of DNA Mismatch Repair -- New Insights into Lynch Syndrome Diagnosis -- Genetic Testing, an Optimal Strategy for Lynch Syndrome Identification -- Functional Analyses Help to Assess the Pathogenicity of MMR Gene Variants of Uncertain Significance -- The Role of Epimutations of the Mismatch Repair Genes in the Development of Lynch Syndrome Related Cancers -- Mutations in non-MMR Genes Modifying or Mimicking Lynch Syndrome Phenotype -- Lynch Syndrome: Genetic Counselling of at-risk Individuals and Families -- Index.
Sommario/riassunto	Lynch syndrome (LS) is the most common cause of inherited colorectal cancer, a disease with a high mortality rate. An estimated 37,000 of diagnosed colorectal cancer cases worldwide are attributed to Lynch syndrome each year. Intensive cancer screening, with early initiation and frequent follow-up, can reduce colorectal cancer incidence and mortality in LS patients. This book provides an up-to-date overview on the genetic and epigenetic basis of Lynch syndrome. It evaluates clinical features of the disease and critically comments on molecular tools available for identifying mutations responsible for Lynch syndrome; in addition the importance of functional assays that can help clarify the clinical nature of identified mutations is also discussed. The book also focuses on challenges in genetic counselling of at-risk

individuals and discusses related ethical issues. The purpose of the book is to give a concise knowledge base for the broader scientific and medical community, including genetic counselors, in order to improve awareness on the potential impact that the diagnosis of LS has on treatment, management and surveillance of LS patients.