AUSGEWÄHLTE FORSCHUNGSERGEBNISSE SELECTED RESEARCH REPORTS

Filled Skutterudites — Physics and		Preparation and Bonding Peculiarities of	
Chemistry of Iron Antimonides of Alkali,		Ternary Boron Compounds with	
Alkaline-Earth, and Rare-Earth Metals	95	Magnesium and Rhodium	174
Low-Field Magnetic Investigations of the		Inverse Rare-Earth Perovskites of	
Superconducting State in PrOs ₄ Sb ₁₂	106	Main-Group Metals — Evolution of	
		Properties and Chemical Bonding	180
Orbital (Two-Channel) Kondo Effect			
Problem in Nonmagnetic PbFCl-Type		Stacking Design in Inverse Perovskites:	
Pnictide Chalcogenides	109	The System $(Sr_{3-x}Ba_xN)Bi$	191
Advances in Clathrate Research	116	Chemical Bonding in Metal-Rich Nitrides	
		of Indium	194
Soft Preparation of Intermetallic Phases:			
New Metastable Modification of Germanium		$(Ca_7N_4)[M_x] - \frac{1}{\infty}Metal Chains in Subnitrides$	201
in Form of an Empty Clathrate-II	128	(/ 4)[1]	
m roum or an Empty Claumate II		Sr ₂ [NNi(CN)]: The Role of Carbon During	
Sn-NMR Study on the Correlated Semimetals		Nitride Formation	206
U ₂ Ru ₂ Sn and CeRu ₄ Sn ₆	131	Tital Committee	200
C2Ku2Sii and CCKu4Sii6	131	Redox-Intercalation of Hydrogen and	
Nuclear Magnetic Resonance Investigations		Nitrogen in Alkaline-Earth Subnitrides	209
of Intermetallic Compounds	136	Willogen in Mkanne-Latin Submittees	20)
of intermetanic Compounds	150	Ternary Carbides from the Point of View	
Frontiers of NMR in Pulsed High		of Carbometalates	212
Field Magnets	141	of Carbonnetarates	212
Field Magnets	141	Lavy Valancy Carbons livit datas	
TI 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Low-Valency Carbomolybdates	215
Unusual Metallic Properties in	1.46	and -tungstates	215
Cubic FeGe at High Pressure	146		
		Quantum Criticality and Superconductivity	• • •
Ternary Intermetallic Palladium Compounds		in the Heavy-Fermion Compound CeCoIn ₅	219
with Anionic Partial Structures	149		
		Two Distinct Superconducting Phases in	
Smeared Ferromagnetic Quantum Phase		$CeCu_2Si_2$	225
Transition in $CePd_{1-x}Rh_x$	153		
		Nature of the Magnetic Order in CeCu ₂ Si ₂	
Magnetic Properties of the Quantum		and Interplay with Superconductivity	229
Critical Point in YbRh ₂ Si ₂	156		
		A Case Study of Complex Metallic Alloy	
Systematic Study of the Grüneisen-Ratio		Phases: Stability, Structure and	
near Quantum Critical Points	160	Disorder Phenomena of Mg-Pd	
		and Ag-Mg Compounds	232
Kondo-Ion Electron-Spin Resonance	165		
		The Nature of Laves Phases: An Explorative	
Hall-Effect Evolution across a		Investigation of the Nb-Co System	237
Heavy-Fermion Quantum Critical Point	169		

Structural Complexity without Pentagonal		'The Birth of a Crystal': Atomistic	
Symmetry: New Binary Gallides and		Simulation Studies of Crystal Nucleation	273
Aluminides Prepared by High Temperature			
Centrifugation Aided Filtration	243	Molecular Dynamics Simulations of Pressure	-
		Induced Phase Transitions: From Unit Cells	
Crystallization Processes in Metallic Systems		to 'Real' Materials	276
with Miscibility Gap in the Liquid State	246		
		Fluorapatite-Gelatine Nanocomposites:	
Cu ^{II} -Materials — Crystal Chemistry Meets		Induction of a Hierarchical Morphogenesis	
Magnetism	250	by Intrinsic Electric Dipole Fields —	
		A General Principle of Biomineralization?	279
Bose-Einstein Condensation of Magnons in			
Cs ₂ CuCl ₄	255	Transition-Metal Borophosphates —	
		Complex Inorganic Frameworks	
First Experimental Realization of a Frustrated	Į.	and Magnetism	284
Ferromagnetic Square-Lattice System	258		
		Chemical Transport of Rare-Earth	
Frustrated Square-Lattice Ferromagnets	263	Compounds with Complex Anions	288
The Correlation between Bonding Relation-			
ships and Ionic Volume Increments			
Exemplified by Metal Hydrides and			
some Intermetallic Compounds	270		