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BRIEF REPORTS

Structure, structural phase transitions, mechanical properties, defects, etc.

<i>O</i> (<i>n</i>) quantum rotors close to $n=2$ and $d=1$ (3 pages)	012101
Amit Dutta and J. K. Bhattacharjee	
<i>In situ</i> x-ray diffraction study of the pressure-induced phase transformation in nanocrystalline CeO ₂ (4 pages)	012102
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Ground-state structure of β -C ₃ N ₄ by first-principles calculations (4 pages)	012103
Tamotsu Hashimoto and Masanori Kohyama	

Inhomogeneous, disordered, and partially ordered systems

Molecular-dynamics-based investigation of scattering path contributions to the EXAFS spectrum: The Cr ³⁺ aqueous solution case (4 pages)	012201
Patrick J. Merkling, Adela Muñoz-Páez, José M. Martínez, Rafael R. Pappalardo, and Enrique Sánchez Marcos	

Dynamics, dynamical systems, lattice effects, quantum solids, etc.

Observation of Umklapp processes in noncrystalline materials (4 pages)	012301
Tullio Scopigno, Matteo D'astuto, Michael Krisch, Giancarlo Ruocco, and Francesco Sette	
Localized vibrational mode analysis of the resistivity and specific heat of LaB ₆ (4 pages)	012302
D. Mandrus, B. C. Sales, and R. Jin	
Viscoelastic response of sonic band-gap materials (4 pages)	012303
I. E. Psarobas	

Magnetism

Localization and coercivity of random granular nanomagnets (4 pages)	012401
Yue Yu, S. T. Chui, and Hualin Shi	
Evidence for the Verwey transition in highly nonstoichiometric nanometric Fe-based ferrites (4 pages)	012402
N. Guigue-Millot, N. Keller, and P. Perriat	

