

Giant perpendicular magnetic anisotropy of an Ir monolayer on a NiAl(001) surface (4 pages)	052404
Dongyoo Kim, Jeonghwa Yang, and Jisang Hong	
Generation of dense spin-wave soliton trains in active ring resonators (4 pages)	052405
Alexey B. Ustinov, Boris A. Kalinikos, Vladislav E. Demidov, and Sergej O. Demokritov	
Chemically selective modification of spin polarization in ultrathin ferromagnetic films: Microscopic theory and macroscopic experiment (4 pages)	052406
K. P. Kopper, D. Küpper, R. Reeve, T. Mitrelias, D. S. D. Gunn, and Stephen J. Jenkins	
Superfluidity and superconductivity	
Water-induced superconductivity in SrFe ₂ As ₂ (4 pages)	052501
Hidenori Hiramatsu, Takayoshi Katase, Toshio Kamiya, Masahiro Hirano, and Hideo Hosono	
Zero resistance at integer values of frustration in out-of-equilibrium classical Josephson-junction arrays (4 pages)	052502
Ibrahim Elsayed, K. H. Sarwa B. Tan, Kevin A. Parendo, and A. M. Goldman	
Magnetic-superconducting phase boundary of SmFeAsO _{1-x} F _x studied via muon spin rotation: Unified behavior in a pnictide family (4 pages)	052503
S. Sanna, R. De Renzi, G. Lamura, C. Ferdeghini, A. Palenzona, M. Putti, M. Tropeano, and T. Shiroka	
Underlying Fermi surface of Sr _{14-x} Ca _x Cu ₂₄ O ₄₁ in two-dimensional momentum space observed by angle-resolved photoemission spectroscopy (4 pages)	052504
T. Yoshida, X. J. Zhou, Z. Hussain, Z.-X. Shen, A. Fujimori, H. Eisaki, and S. Uchida	
Model for the inverse isotope effect of FeAs-based superconductors in the π -phase-shifted pairing state (4 pages)	052505
Han-Yong Choi, Jae Hyun Yun, Yunkyu Bang, and Hyun C. Lee	
Compound Josephson-junction coupler for flux qubits with minimal crosstalk (4 pages)	052506
R. Harris, T. Lanting, A. J. Berkley, J. Johansson, M. W. Johnson, P. Bunyk, E. Ladizinsky, N. Ladizinsky, T. Oh, and S. Han	
Spin pump for boosting spin polarization of superfluid ³ He A ₁ phase (4 pages)	052507
A. Yamaguchi, Y. Aoki, S. Murakawa, H. Ishimoto, and H. Kojima	
Suppression of the superconducting transition of RFeAsO _{1-x} F _x (R=Tb, Dy, and Ho) (4 pages)	052508
Jennifer A. Rodgers, George B. S. Penny, Andrea Marcinkova, Jan-Willem G. Bos, Dmitry A. Sokolov, Anna Kusmartseva, Andrew D. Huxley, and J. Paul Attfield	
Magnetic-field-induced soft mode in spin-gapped high-T _c superconductors (4 pages)	052509
Brian M. Andersen, Olav F. Syljuåsen, and Per Hedegård	

ARTICLES

Structure, structural phase transitions, mechanical properties, defects

Aperiodicity, structure, and dynamics in Ni(CN) ₂ (7 pages)	054101
Andrew L. Goodwin, Martin T. Dove, Ann M. Chippindale, Simon J. Hibble, Alexander H. Pohl, and Alex C. Hannon	
Strong enhancement of the direct magnetoelectric effect in strained ferroelectric-ferromagnetic thin-film heterostructures (5 pages)	054102
N. A. Pertsev, H. Kohlstedt, and B. Dkhil	

(Continued)