

Vladislav Kataev

## LIST OF PUBLICATIONS

in the refereed scientific journals  
(*in reverse chronological order*)

1. A spin-frustrated star-shaped heterotetranuclear  $\text{Cr}^{III}\text{Mn}_3^{II}$  species and its magnetic and HF-EPR measurements;  
S. Khanra, B. Biswas, C. Golze, B. Büchner, V. Kataev, T. Weyhermüller, and P. Chaudhuri;  
Dalton Trans. (2007), DOI: 10.1039/b613.
2. Magnetism of a novel tetranuclear nickel(II) cluster in strong magnetic fields;  
V. Kataev, C. Golze, A. Alfonsov, R. Klingeler, B. Büchner, M. Goiran, J.-M. Broto, H. Rakoto, C. Mennerich, H.-H. Klauss, S. Demeshko, G. Leibelng, and F Meyer;  
Journal of Physics: Conference Series **51**, 351 (2006).
3. Tuning the magnetic ground state of a tetranuclear nickel(II) molecular complex by high magnetic fields;  
C. Golze, A. Alfonsov, R. Klingeler, B. Büchner, V. Kataev, C. Mennerich, H.-H. Klauss, M. Goiran, J.-M. Broto, H. Rakoto, S. Demeshko, G. Leibelng, and F. Meyer;  
Physical Review B **73**, 224403 (2006).
4. Antiferromagnetic dimers of Ni(II) in the  $S = 1$  spin-ladder  $\text{Na}_2\text{Ni}_2(\text{C}_2\text{O}_4)_3(\text{H}_2\text{O})_2$ ;  
C. Mennerich, H.-H. Klauss, M. Broekelmann, F.J. Litterst, C. Golze, R. Klingeler, V. Kataev, B. Büchner, S.-N. Grossjohann, W. Brenig, M. Goiran, H. Rakoto, J.-M. Broto, O. Kataeva, and D.J. Price;  
Physical Review B **73**, 174415 (2006).
5. High-field ESR studies of the quantum spin magnet  $\text{CaCu}_2\text{O}_3$ ;  
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New Journal of Physics **8**, 74 (2006).
6. Magnetic properties of vanadium-oxide nanotubes probed by static magnetization and  $^{51}\text{V}$  NMR;  
E. Vavilova, I. Hellmann, V. Kataev, C. Täschner, B. Büchner, and R. Klingeler;  
Physical Review B **73**, 144417 (2006).
7. Magnetism of hole-doped  $\text{CuO}_2$  spin chains in  $\text{Sr}_{14}\text{Cu}_{24}\text{O}_{41}$ : Experimental and numerical results;  
R. Klingeler, B. Büchner, K.-Y. Choi, V. Kataev, U. Ammerahl, A. Revcolevschi, and

- J. Schnack;  
Physical Review B **73**, 014426 (2006).
8. Nature of low-temperature phase transitions in  $\text{CaMn}_7\text{O}_{12}$ ;  
O. Volkova, Y. Arango, N. Tristan, V. Kataev, E. Gudilin, D. Meier, T. Lorenz, B. Büchner, and A. Vasil'ev;  
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  9. Structural and magnetic properties of the new low-dimensional spin magnet  $\text{InCu}_{2/3}\text{V}_{1/3}\text{O}_3$ ;  
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  11. Synthesis and characterization of  $\text{Na}_{11}[\text{CuO}_4][\text{SO}_4]_3$ ;  
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  13. Magnetic exchange in a low-dimensional complex oxide  $(\text{Cu,Zn})_2\text{V}_2\text{O}_7$ ;  
V. Kataev, J. Pommer, K.-Y. Choi, P. Lemmens, A. Ionescu, Yu. Pashkevich, K. Lamonova, A. Möller, A. Freimuth, and G. Güntherodt;  
Journal of Magnetism and Magnetic Materials **272-276**, 933 (2004).
  14. Interplay between the magnetic fluctuations and superconductivity in the lanthanum cuprates;  
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  17. Interplay between structure and magnetism in the spin chain compound  $(\text{Cu,Zn})_2\text{V}_2\text{O}_7$ ;  
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19. ESR study of  $(\text{Sr},\text{La},\text{Ca})_{14}\text{Cu}_{24}\text{O}_{41}$ ;  
V. Kataev, K.-Y. Choi, M. Grüninger, U. Ammerahl, B. Büchner, A. Freimuth and  
A. Revcolevschi;  
Physica B **312-313**, 614 (2002).
20. Interplay of spin and charge dynamics in  $\text{Sr}_{14-x}\text{Ca}_x\text{Cu}_{24}\text{O}_{41}$ ;  
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21. Strong anisotropy of superexchange in the copper-oxygen chains of  $\text{La}_{14-x}\text{Ca}_x\text{Cu}_{24}\text{O}_{41}$ ;  
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25. Mobility of holes and suppression of antiferromagnetic order in  $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$ ;  
M. Hücker, V. Kataev, J. Pommer, J. Harraß, A. Hosni, C. Pflictsch, R. Gross and B.  
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29. Magnetic properties of the  $\text{CuO}_2$  planes in the low temperature tetragonal phase of Eu doped  $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$ ; M. Hücker, J. Pommer, W. Schlabitz, V. Kataev, and B. Büchner; *Journal of Magnetism and Magnetic Materials* **177-181**, 539 (1998).
30. Magnetism of the LTT phase of Eu doped  $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$ ; M. Hücker, J. Pommer, B. Büchner, V. Kataev, and B. Rameev; *Journal of Superconductivity* **10**, no. 4, 451 (1997).
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