

Mahmoud Abdel-Hafiez

List of selected publications

(as of November 2021)

Doctoral Thesis & Related Papers

(1) Single Crystal Growth and Characterization of Superconducting LiFeAs

I. Morozov, A. Boltalin, O. Volkova, A. Vasiliev, O. Kataeva, U. Stockert, **M. Abdel-Hafiez**, et al.

J. Crystal Growth and Design 10, 4428 (2010)

(2) Multi-gap superconductivity Ba_{0.65}Na_{0.35}Fe₂As₂: A calorimetric investigation

A. K. Pramanik, **M. Abdel-Hafiez**, S. Aswartham, A. U. B. Wolter, S. Wurmehl B. Büchner

Phys. Rev. B 84, 064525 (2011)

(3) Specific heat and angle-resolved photoemission spectroscopy study in LiFeAs

U. Stockert, **M. Abdel-Hafiez**, et al.

Phys. Rev. B 83, 224512 (2011)

(4) Magnetic properties of the low-dimensional spin-1/2 magnet α -Cu₂As₂O₇

Y. Arango, E. Vavilova, **M. Abdel-Hafiez**, et al.

Phys. Rev. B 84, 134430 (2011)

(5) Phase diagram of iron-arsenide superconductors Ca(Fe_{1-x}Cox)₂As₂ (0 ≤ x ≤ 0.2)

L. Harnagea, S. Singh, G. Friemel, N. Leps, D. Bombor, **M. Abdel-Hafiez**, et al.

Phys. Rev. B 83, 094523 (2011)

(5) Specific heat and upper critical field in KFe₂As₂ single crystals

M. Abdel-Hafiez et al.

Phys. Rev. B 85, 134533 (2012)

(6) Hole-doping in BaFe₂As₂: The case of Ba_{1-x}NaxFe₂As₂ single crystals

S. Aswartham, **M. Abdel-Hafiez**, A. U. B. Wolter, C. Hess, B. Büchner, S. Wurmehl
Phys. Rev. B 85, 224520 (2012)

(7) Orthogonal spin arrangement of three - dimensional Shastry - in Ba₃Cu₃In₄O₁₂

O. S. Volkova, I. S. Maslova, R. Klingeler, **M. Abdel-Hafiez**, B. Büchner, A. N. Vasiliev
Phys. Rev. B 85, 104420 (2012)

(8) Weak ferrimagnetism and multiple magnetization reversal in α-Cr₃(PO₄)₂

A. Vasiliev, O. S. Volkova, E. Hammer, R. Glaum, J.-Y. Lin, R. Klingeler, **M. Abdel-Hafiez**, et al.
Phys. Rev. B 85, 014415 (2012)

(9) Calorimetric study of the superconducting and normal state properties of Ca(Fe_{1-x}Cox)₂As₂

M. Abdel-Hafiez et al.

JPCM, 391, 012120 (2012)

(10) Temperature dependence of lower critical field shows nodeless superconductivity in FeSe

M. Abdel-Hafiez, J. Ge, A. Vasiliev, D. Chareev, J. Van de Vondel, V. Moshchalkov, A. Silhanek

Phys. Rev. B 88, 174512 (2013) and further highlighted by: phys.org

(11) Evidence for Line Nodes in the Superconducting Gap of K_{1-x}NaxFe₂As₂ (x = 0, 0.1)

M. Abdel-Hafiez et al.

Phys. Rev. B Rapid Communication 87, 180507(R) (2013)

(12) The heat capacity and entropy of lithium silicides in the temperature range from 2 to 873 K

D. Thomas, **M. Abdel-Hafiez** et al.

J. Chem. Therm., 64, 205 (2013)

Publications on Superconductivity

(1) Coexistence of Superconductivity and Charge Density Wave in TaS₂: Experiment and Theory
Y. Kvashnin, D. VanGennep, S. A. Medvedev, O. Karis, O. Eriksson, and **M. Abdel-Hafiez**

Phys. Rev. Lett. 125, 186401 (2020)

(2) Growth of Transition Metal Dichalcogenides by Solvent Evaporation Technique

D. Chareev, P. Evstigneeva, D. Phuyal, G. Man, H. Rensmo, A. N. Vasiliev, and **M. Abdel-Hafiez**

Crystal growth & Design (2020)

(3) Signature of multigap nodeless superconductivity in fluorine-doped NdFeAsO

A. Adamski, C. Krellner, and **M. Abdel-Hafiez**

Phys. Rev. B 96, 100503(R) (2017)

(4) Strong Interplay between Stripe Spin Fluctuations, Nematicity and Superconductivity in FeSe

Q. Wang, Y. Shen, B. Pan, Y. Hao, M. Ma, F. Zhou, P. Steffens, **M. Abdel-Hafiez**, et al.,

Nature Material 15, 195-163 (2016)

(5) Superconductivity beyond Pauli's limit in bulk NbS₂: Evidence for the FFLO state

C. Cho, Jian Lyu, C. Ng, J. He, T. Abdel-Baset, **M. Abdel-Hafiez**, Rolf Lortz

Nature Communications 12, 3676 (2021)

(6) High-pressure behavior of superconducting boron-doped diamond

M. Abdel-Hafiez, et al.

Phys. Rev. B 95, 17519 (2017)

(7) Interplay of charge density wave and superconductivity: The case of 2H-NbS₂ and 2H-NbSe₂

Arnab Majumdar, D. VanGennep, J. Brisbois, D. Chareev,, and **M. Abdel-Hafiez**

Phys. Rev. Materials 4, 084005 (2020)

(8) Strong Interplay between Stripe Spin Fluctuations, Nematicity and Superconductivity in FeSe

Q. Wang, Y. Shen, B. Pan, Y. Hao, M. Ma, F. Zhou, P. Steffens, **M. Abdel-Hafiez**, et al.

Nature Material 15, 195-163 (2016)

(9) Anomalous correlation effects and unique phase diagram of FeSe revealed by photoemission spectroscopy C.H.P. Wen, H.C. Xu, C. Chen, X. Lou, Y.J. Pu, B.P. Xie, **M. Abdel-Hafiez**, et al.,
Nature Communication 7, 10840 (2016)

(10) Crystal structure and phase transitions at high pressures in the superconductor Fe-Se_{0.89}S_{0.11}

Y. Nikiforova, A. Ivanova, K. Frolov, I. Lyubutin, D. Chareev, ...**M. Abdel-Hafiez**
Journal of Alloys and Compounds, 860, 158419 (2021)

Articles in Scientific Journals

Google Scholar: https://scholar.google.com/citations?user=4Qy_72EAAAAJ&hl=en

(85) Superconductivity beyond Pauli's limit in bulk NbS₂: Evidence for the FFLO state
C. Cho, Jian Lyu, C. Ng, J. He, T. Abdel-Baset, **Mahmoud Abdel-Hafiez**, Rolf Lortz
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(84) Crystal structure and phase transitions at high pressures in the superconductor Fe-Se_{0.89}S_{0.11}

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Journal of Alloys and Compounds, 860, 158419 (2021)

(83) Effect of metal dopant on structural and magnetic properties of ZnO nanoparticles
T. A. Abdel-Baset and **Mahmoud Abdel-Hafiez**
J Mater Sci: Mater. Electron. 32, 16153–16165 (2021)

(82) Magnetic phase diagram, magnetoelastic coupling and Grüneisen scaling in CoTiO₃
M. Hoffmann, K. Dey, J. Kaiser, Y. Skourski, **M. Abdel-Hafiez**, S. Singh, R. Klingeler
Physical Review B 104, 014429 (2021)

(81) Exotic Magnetic and Electronic Properties of Layered CrI₃ Single Crystals Under High Pressure

A. Ghosh, D. Singh, Q. Mu, Y. Kvashnin, G. Haider, M. Jonak, T. Aramaki, S. A. Medvedev, R. Klingeler, M. Mito, J. Vejpravova, M. Kalbac, R. Ahuja, Olle Eriksson, **Mahmoud Abdel-Hafiez**

<https://arxiv.org/abs/2108.00173> (2021)

(80) Magnetocaloric effect and critical behavior in La_{0.8}K_{0.2}MnO₃ nanoparticle

R. Skini, H. Baaziz, A. Tozri, **M. Abdel-Hafiez***, A. Hassan

Results in Physics 30, 104861 (2021)

(79) Observation of a Ubiquitous (π, π)-Type Nematic Superconducting Order in the Whole Superconducting Dome of Ultra-Thin BaFe_{2-x}NixAs₂ Single Crystals

Yu Dong, Yangyang Lv, Zuyu Xu, **M. Abdel-Hafiez**, A. N. Vasiliev, et al.

Chin. Phys. Lett., 2021 38, 097401 (2021)

(78) Synthesis, Optical, Magnetic and Thermodynamic Properties of Rocksalt Li_{1.3}Nb_{0.3}Mn_{0.4}O₂

M. Kamel, A. Hanna, C. Krellner, Rüdiger Klingeler, M. Abdellah, **Mahmoud Abdel-Hafiez***, A. Hassen, A. Khalil, T. Abdel-Baset and A. Hassan

Crystals 11(7), 825 (2021)

(77) Coexistence of Superconductivity and Charge Density Wave in TaS₂: Experiment and Theory

Y. Kvashnin, D. VanGennep, S. A. Medvedev, O. Karis, O. Eriksson, and **M. Abdel-Hafiez**

Phys. Rev. Lett. 125, 186401 (2020)

(76) Growth of Transition Metal Dichalcogenides by Solvent Evaporation Technique

D. Chareev, P. Evstigneeva, D. Phuyal, G. Man, H. Rensmo, A. N. Vasiliev, and **M. Abdel-Hafiez**

Crystal growth & Design 20, 6930-6938 (2020)

(75) Sharp peak of the critical current density in BaFe_{2-x}NixAs₂ at optimal composition

D. Van Gennep, A. Hassan, H. Luo, and **Mahmoud Abdel-Hafiez**

Phys. Rev. B 101, 235163 (2020)

(74) Interplay of charge density wave and superconductivity: The case of 2H-NbS₂ and 2H-NbSe₂

Arnab Majumdar, D. VanGennep, J. Brisbois, D. Chareev,, and **Mahmoud Abdel-Hafiez**
Phys. Rev. Materials 4, 084005 (2020)

(73) Single Crystal Growth and Small Anisotropy of the Lower Critical Field: NdFeAsO_{1-x}F_x
Abanoub Hanna and **Mahmoud Abdel-Hafiez**

Crystal, 10(5), 362 (2020)

(72) Co(NO₃)₂ as an inverted umbrella-type chiral noncoplanar ferrimagnet

I. Danilovich, E. Deeva, K. Bukhteev, I. Morozov, D. Phuyal, **M. Abdel-Hafiez*** et al.

Phys. Rev. B 102, 094429 (2020) *Editors' Suggestion*

(71) Magnetic phase diagram and magnetoelastic coupling of NiTiO₃

K. Dey, S. Sauerland, J. Werner, Y. Skourski, **M. Abdel-Hafiez**, R. Bag, S. Singh, and R. Klingeler

Phys. Rev. B 101, 195122 (2020)

(70) Pressure-induced reentrant transition in NbS₃ phases: Combined Raman and x-ray diffraction

Mahmoud Abdel-Hafiez et al.

Phys. Rev. B 99, 235126 (2019)

(69) NbS₃: A unique quasi-one-dimensional conductor with three charge density wave transitions

S. G. Zybtshev, V. Ya. Pokrovskii,, A. N. Titov, and, **M. Abdel-Hafiez**

Phys. Rev. B 99, 039901 (2019)

(68) Mössbauer Spectroscopy Study of FeSe_{0.9}S_{0.09} Superconductor Single Crystals

K. Frolov, I. S. Lyubutin, D. A. Chareev, and **Mahmoud Abdel-Hafiez**

Jetp Lett. 110, 562–567 (2019)

(67) The Complex Electronic Phase Diagram of Single-Crystalline R₂PdSi₃ (R = Ho, Dy)

L. Wang, B. Tran, M. He, C. Meingast, **M. Abdel-Hafiez**, C. Cao, W. Löser, and R. Klingeler

J. Phys. Soc. Jpn. 88, 094709 (2019)

(66) Short-Range and Long-Range Order in AFM–FM Exchange Coupled Compound $\text{LiCu}_2(\text{VO}_4)(\text{OH})_2$

Anatoly Koshelev, Elena Zvereva, Larisa Shvanskaya, Olga Volkova, **M. Abdel-Hafiez**, et al.

J. Phys. Chem. C, 123, 29, 17933–17942 (2019)

(65) Vortex-core properties and vortex-lattice transformation in FeSe

A. Putilov, C. Giorgio, V. Vadimov, D. Trainer, E. Lechner, J. Curtis, **M. Abdel-Hafiez***, et al.

Phys. Rev. B 99, 144514 (2019)

(64) Low temperature thermodynamics of $\text{Yb}_6\text{MoO}_{12}$ and $\text{Lu}_6\text{MoO}_{12}$

K Denisova, A Shlyakhtina, O Yumashev, M Avdeev, **M Abdel-Hafiez** and A. Vasiliev

J. of Alloys and Comp. 778, 756-760 (2019)

(63) Tailoring the optical and physical properties of La doped ZnO nanostructured thin film

M. Ahmed, W. Tawfik, M. Elfayoumi, **M. Abdel-Hafiez***, S. El-Dek

J. of Alloys and Comp. 791, 586-592 (2019)

(62) High-pressure optical floating-zone growth of $\text{Li}_2\text{FeSiO}_4$ single crystals

W. Hergett, C. Neef, H. Meyer, **M. Abdel-Hafiez**, C. Ritter, E. Thauer, R. Klingeler

J. of Crystal Growth 515, 37-43 (2019)

(61) Novel magnetic standpoints in $\text{Na}_2\text{Ti}_3\text{O}_7$ nanotubes

A. Zaki, **M. Abdel Hafiez***, W. El Rouby, S. El-Dek, A. Farghali

Journal of Magnetism and Magnetic Materials 476, 207-212 (2019)

(60) High-pressure phase diagram of $\text{NdFeAsO}_{0.9}\text{F}_{0.1}$: Disappearance of superconductivity

M. Abdel-Hafiez, et al.

Phys. Rev. B 98, 094504 (2018)

(59) Upper critical fields in $\text{Ba}_2\text{Ti}_2\text{Fe}_2\text{As}_4\text{O}$ single crystals: Evidence for Pauli paramagnetic effect

M. Abdel-Hafiez, et al.

Phys. Rev. B 97, 115152 (2018)

(58) High pressure effects on isotropic superconductivity in the iron-free layered pnictide superconductor BaPd₂As₂

M. Abdel-Hafiez, et al.

Phys. Rev. B 97, 134508 (2018)

(57) Superconducting gap symmetry in the superconductor BaFe_{1.9}Ni_{0.1}As₂

T. Kuzmicheva, A. Sadakov, S. Gavrilkin, X. Lu, H. Luo, V. Pudalov, X. Chen, and **M. Abdel-Hafiez**

Phys. Rev. B 97, 235106 (2018)

(56) Magnetism and the phase diagram of MnSb₂O₆

C. Koo, J. Werner, M. Tzschoppe, **M. Abdel-Hafiez**, et al.

Phys. Rev. B 97, 224416 (2018)

(55) Magnetoelastic coupling and ferromagnetic-type in-gap spin excitations in α -Cu₂V₂O₇

L Wang, J Werner, A Ottmann, R Weis, **M Abdel-Hafiez**, J Sannigrahi, and R Klingeler

New J. of Physics 20, 063045 (2018)

(54) Single crystal growth, transport and scanning tunneling microscopy and spectroscopy of Fe-Se_{1-x}S_x

D. Chareev, Y. Ovchenkov, A. Kovalskii, **M. Abdel-Hafiez**^{*}, M. Iavarone, O. Volko and A. Vasilev

CrystEngComm. 20, 2449 (2018)

(53) Synthesis, structural, and magnetic properties of cobalt salphen pseudo halide

A.R. Nassief, **M. Abdel-Hafiez**^{*}, A. Hassen, A.S.G. Khalil, M. R. Saber

J. of Mag. and Mag. Mat. 452, 488-494 (2018)

(52) Vortex dynamics and the critical current density in NdFeAsO_{0.9}F_{0.1} single crystals

A. Adamski, A. R. Nassief, C. Krellner, and **M. Abdel-Hafiez**

J. of Mag. and Mag. Mat. 459, 301-304 (2018)

(51) Signature of multigap nodeless superconductivity in fluorine-doped NdFeAsO

A. Adamski, C. Krellner, and **M. Abdel-Hafiez**

Phys. Rev. B 96, 100503(R)

(50) High-pressure behavior of superconducting boron-doped diamond

M. Abdel-Hafiez, et al.

Phys. Rev. B 95, 17519 (2017)

(49) NbS₃: A unique quasi-one-dimensional conductor with three charge density wave transitions

S. G. Zybsev, V. Ya. Pokrovskii, B. A. Loginov, A. N. Titov, and, **M. Abdel-Hafiez**

Phys. Rev. B 95, 035110 (2017)

(48) Impurity scattering effects on the SC properties in FeSe

M. Abdel-Hafiez, et al.

Phys. Rev. B 93, 224508 (2016)

(47) Enhancement of superconductivity under pressure and the magnetic phase diagram of TaS₂

M. Abdel-Hafiez, et al.

Scientific Reports 6, 31824 (2016)

(46) Dilatometric study of the metamagnetic and ferromagnetic phases in Sr₄Ru₃O₁₀ W. Schottenhamel,

M. Abdel-Hafiez*, et al.

Phys. Rev. B 94, 155154 (2016) *editor suggestion*

(45) Highly anisotropic and two-fold symmetric superconducting gap in nematically ordered FeSe

H. C. Xu, X. H. Niu, D. F. Xu, J. Jiang, Q. Yao, **M. Abdel-Hafiez**, D. Chareev, R. Peng, D. Feng

Physical Review Letter 117, 157003 (2016)

(44) Magnetic ground state of FeSe

Q. Wang, Y. Shen, B. Pan, X. Zhang, K. Ikeuchi, K. Iida, A., **M. Abdel-Hafiez**, et al.

Nature Communications 7, 12182 (2016)

(43) Strong Interplay between Stripe Spin Fluctuations, Nematicity and Superconductivity in FeSe

Q. Wang, Y. Shen, B. Pan, Y. Hao, M. Ma, F. Zhou, P. Steffens, **M. Abdel-Hafiez**, et al.,

Nature Material 15, 195-163 (2016)

(42) Anomalous correlation effects and unique phase diagram of FeSe revealed by photoemission spectroscopy

C.H.P. Wen, H.C. Xu, C. Chen, X. Lou, Y.J. Pu, B.P. Xie, **M. Abdel-Hafiez**, et al.

Nature Communication 7, 10840 (2016)

(41) Structural and Magnetic Properties of Transition-Metal-Doped $Zn_{1-x}Fe_xO$

T. Abdel-Baset, Y. Fang, B. Anis, Chun-Gang Duan, **Mahmoud Abdel-Hafiez**

Nanoscale Research Letters 11(1), 1-12 (2016)

(40) Magnetic properties of Chromium-doped ZnO

T. Abdel-Baset, Y. Fang, Chun-Gang Duan, **M. Abdel-Hafiez**

J. Superconductivity and Novel Magnetism 29, 1937 (2016)

(39) Orbitally induced hierarchy of exchange interactions in antiferromagnetic state of $Ag_3Co_2SbO_6$

E. Zvereva, A. Stratan, A. Ushakov, ..., **M. Abdel-Hafiez** et al.

Dalton Trans. 45, 7373 (2016)

(38) Superconducting Properties of $NdO_{0.5}F_{0.5}BiS_2$ single crystals

Q. Chen, **M. Abdel-Hafiez*** et al.

J. Superconductivity and Novel Magnetism 29, 1213 (2016)

(37) Superconducting properties of sulfur-doped iron selenide

M. Abdel-Hafiez et al.

Phys. Rev. B 91, 165109 (2015)

(36) Nodeless superconductivity in the presence of SDW in pnictide superconductors

M. Abdel-Hafiez et al.

Phys. Rev. B 91, 024510 (2015)

(35) Zigzag AFM quantum ground state in monoclinic honeycomb lattice antimonates $A_3Ni_2SbO_6$

E. A. Zvereva, M. I. Stratan, Y. A. Ovchenkov, J.-Y. Lin, E. L. Vavilova, **M. Abdel-Hafiez**, et al.

Phys. Rev. B 92, 144401 (2015)

(34) Onset, evolution, and magnetic braking of vortex lattice instabilities in nanostructured superconducting films

O.-A. Adami, Z. L. Jelić, C. Xue, **M. Abdel-Hafiez**, et al.

Phys. Rev. B 92, 134506 (2015)

(33) Evolution of the Superconducting properties in $FeSe_{1-x}S_x$

S. A. Moore, J. L. Curtis, C. Di Giorgio, E. Lechner, **M. Abdel-Hafiez**, et al.

Phys. Rev. B 91, 235113 (2015)

(32) Crystal growth and electronic phase diagram of 4d-doped $Na_{1-\delta}Fe_{1-x}Rh_xAs$ in $Na_{1-\delta}Fe_{1-x}Co_xAs$

F. Steckel, M. Roslova, R. Beck, I. Morozov, S. Aswartham, F. Blum, **M. Abdel-Hafiez** et al.

Phys. Rev. B 91, 184516 (2015)

(31) New Phase of $MnSb_2O_6$ Prepared by Ion Exchange: Structural and Thermodynamic Properties

V. Nalbandyan, E. A Zvereva, H. Koo, **M. Abdel-Hafiez**^{*}, Xiao-Jia Chen, A. Vasiliev, R. Klingeler

Inorganic chemistry 5, 320 (2015)

(30) Lower critical field and Andreev spectroscopy of 122-arsenides: Evidence of nodeless SC gap

M. Abdel-Hafiez et al.

Phys. Rev. B 90, 054524 (2014)

(29) Quantum spin chain as a potential realization of the Confederate Flag model

C. Balz, B. Lake, H. Luetkens, C. Baines, T. Guidi, **M. Abdel-Hafiez** et al.

Phys. Rev. B Rapid Communication 90, 060409 (R) (2014)

(28) Specific heat of $\text{Ca}_{0.32}\text{Na}_{0.68}\text{Fe}_2\text{As}_2$: Unconventional s_{\pm} multi-band superconductivity

S. Johnston, **M. Abdel-Hafiez** et al.

Phys. Rev. B 89, 134507 (2014)

(27) Noncollinear ferrimagnetic ground state in $\text{Ni}(\text{NO}_3)_2$

O. S. Volkova, V. V. Mazurenko, E. B. Deeva, J.-Y. Lin, C. K. Wen, **M. Abdel-Hafiez**, et al.

Phys. Rev. B 90, 134407 (2014)

(26) Determination the Lower Critical Field $H_{c1}(T)$ in FeSe single crystals

M. Abdel-Hafiez, A. Vasiliev, D. Chareev, V. Moshchalkov, A. V. Silhanek

Physica C 503, 143, (2014)

(25) Spectral characteristics and morphology of Pb–S–O thin films synthesized

H. S. H. Mohamed, **M. Abdel-Hafiez**, et al.

Mat. Sc. Semi. Proc. 27, 725 (2014)

(24) Characterization of Doped $\text{Na}(\text{Fe}_{1-x}\text{T}_x)\text{As}$ Single Crystals with $T = \text{Pd, Ni, Cr, and Mn}$

F. Steckel, R. Beck, M. Roslova, **M. Abdel-Hafiez** et al.

J. Supercond. Nov. Magn. 28, 1123 (2014)

(23) Specific Heat of $\text{K}_{0.71}\text{Na}_{0.29}\text{Fe}_2\text{As}_2$ at Very Low Temperatures

A. Reifenberger, M. Hempel, P. Vogt, S. Aswartham, **M. Abdel-Hafiez** et al.

J Low Temp Phys. 175, 755 (2014)

(22) Temperature dependence of lower critical field shows nodeless superconductivity in FeSe

M. Abdel-Hafiez, J. Ge, A. Vasiliev, D. Chareev, J. Van de Vondel, V. Moshchalkov, A. Silhanek

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(20) The heat capacity and entropy of lithium silicides in the temperature range from 2 to 873 K

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J. Chem. Therm., 64, 205 (2013)

(19) Disordered magnetism in superconducting KFe_2As_2 single crystals

V. Grinenko, S. Drechsler, **M. Abdel-Hafiez** et al.

Phys. Stat. Sol. B 250, 593 (2013)

(18) Thermodynamic properties of the anisotropic frustrated spin-chain linearite $PbCuSO_4(OH)_2$

M. Schäpers, A. U. B. Wolter, S.-L. Drechsler, S. Nishimoto, **M. Abdel-Hafiez** et al.

Phys. Rev. B 88, 184410 (2013)

(17) A new layered triangular antiferromagnet Li_4FeSbO_6 : Spin order, field-induced transitions

E. A. Zvereva, O. A. Savelieva, Y. Titov, M. A. Evstigneeva,, **M. Abdel-Hafiez**, et al.

Dalton Trans 42, 1550 (2013)

(16) Spin-state transition and local structure in $Eu_{1-x}Ca_xCoO_3$

T. M. Vasilchikova, O. S. Volkova, T. G. Kuzmova,, R. Klingeler, **M. Abdel-Hafiez**, et al.

J. of Phy. Soc. Jap. 82, 044714 (2013)

(15) Evidence for a vortex-glass transition in superconducting $Ba(Fe_{0.9}Co_{0.1})_2As_2$

G. Prando, R. Giraud, S. Aswartham, **M. Abdel-Hafiez** et al.

J. Phys. Condens. Matter 25, 505701 (2013)

(14) Specific heat and upper critical field in KFe_2As_2 single crystals

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Phys. Rev. B 85, 134533 (2012)

(13) Hole-doping in BaFe₂As₂: The case of Ba_{1-x}Na_xFe₂As₂ single crystals

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Phys. Rev. B 85, 224520 (2012)

(12) Orthogonal spin arrangement of three - dimensional Shastry - in Ba₃Cu₃In₄O₁₂

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Phys. Rev. B 85, 014415 (2012)

(10) Calorimetric study of the superconducting and normal state properties of Ca(Fe_{1-x}Cox)₂As₂

M. Abdel-Hafiez et al.

JPCM, 391, 012120 (2012)

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