

PUBLICATIONS AND DISSERTATIONS

(2010 – 2019)

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Publications

2019

- Magnetic states of coupled spin tubes with frustrated geometry in CsCrF₄
Hagihala M., Hayashida S., Avdeev M., Manaka H., Kikuchi H., Masuda T.
npj Quantum Materials **4** (2019) 14-1-9
- Nano-structure of organic-inorganic layered hybrids characterized by small-angle scattering of X-rays and neutrons
Harada M.
Materials Letters **253** (2019) 102-104
- Coexisting spin resonance and long-range magnetic order of Eu in EuRbFe₄As₄
Iida K., Nagai Y., Ishida S., Ishikado M., Murai N., Christianson A. D., Yoshida H., Inamura Y., Nakamura H., Nakao A., Munakata K., Kagerbauer D., Eisterer M., Kawashima K., Yoshida Y., Eisaki H., Iyo A.
Phys. Rev. B **100** (2019) 14506-14506
- Progress in High Resolution Chopper Spectrometer HRC by improving collimator and Fermi chopper
Itoh S., Yokoo T., Masuda T., Asai S., Saito H., Kawana D., Sugiura R., Asami T., Ihata Y.
Physica B **568** (2019) 76-80
- Spin correlations of quantum spin liquid and quadrupole-ordered states of Tb_{2+x}Ti_{2-x}O_{7+y}
Kadowaki H., Wakita M., Fak B., Ollivier J., Ohira-Kawamura S., Nakajima K., Lynn J. W.
Phys. Rev. B **99** (2019) 14406-14406
- Neutron scattering studies of static and dynamic correlation lengths in alkali metal borate glasses
Kojima S., Novikov V.N., Kofu M., Yamamuro O.
J. Non-Cryst. Solids **518** (2019) 18-23
- Sinusoidally modulated magnetic structure of Kramers local moments in CePd₅Al₂
Onimaru T., Inoue Y. F., Ishida A., Umeo K., Oohara Y., Sato T. J., Adroja D. T., Takabatake T.

- Controlling the stoichiometry of the triangular lattice antiferromagnet $\text{Li}_{1+x}\text{Zn}_{2-y}\text{Mo}_3\text{O}_8$
Sandvik K. E., Okuyama D., Nawa K., Avdeev M., Sato T. J.
J. Solid State Chem. **271** (2019) 216-221
- Precision polymer network science with tetra-PEG gels—a decade history and future
Shibayama M., Li X., Sakai T.
Colloid Polym. Sci. **297** (2019) 1-12
- 梯子型鉄系化合物 BaFe_2S_3 における圧力誘起超伝導
Yamauchi T., Hirata Y., Takahashi H., Nambu Y., Sato T. J., Ohgushi K.
固体物理 **54** (2019) 27-42
- Oxide-ion Diffusion Mechanism and Oxygen Deficiency δ of Hexagonal Perovskite-Related Oxide $\text{Ba}_3\text{MoNb}_{0.5-\delta}$
Yashima M., Tsujiguchi T., Fujii K., Niwa E., Nishioka S., Hester J. R., Maeda K.
J. Mater. Chem. A **7** (2019) 13910-13916

2018

- Cluster-Based Haldane State in an Edge-Shared Tetrahedral Spin-Cluster Chain: Fedotovite $\text{K}_2\text{Cu}_3(\text{SO}_4)_3$
Fujihala M., Sugimoto T., Tohyama T., Mitsuda S., Mole R. A., Yu D. H., Yano S., , Inagaki Y., Morodomi H., Kawae T., Sagayama H., Kumai R., Murakami Y., Tomiyasu K., Matsuo A., Kindo K.
Phys. Rev. Lett. **120** (2018) 77201-77201
- Discovery and development of BaNdInO_4 - A brief review -
Fujii K., Yashima M.
J. Ceram. Soc. Jpn. **126** (2018) 852-859
- Crystal Growth and Neutron Scattering Study of Spin Correlations of the T'-Structured $\text{Pr}_{2-x}\text{Ca}_x\text{CuO}_4$
Fujita M., Tsutsumi K., Miura T., Danilkin S.
Journal of Physics, Vol. 969 (The Institute of Physics, Sweden, 2018) pp. 12070-12070
- Ion Gel Network Formation in an Ionic Liquid Studied by Time-Resolved Small-Angle Neutron Scattering
Hashimoto K., Fujita K., Nishi K., Shibayama M.
J. Phys. Chem. B **122** (2018) 9419-9424
- Magnetic order in the rare-earth ferroborate $\text{CeFe}_3(\text{BO}_3)_4$
Hayashida S., Asai S., Kato D., Hasegawa S., Avdeev M., Cao H., Masuda T.
Phys. Rev. B **98** (2018) 224405-1-9
- Magnetic state selected by magnetic dipole interaction in the kagome antiferromagnet $\text{NaBa}_2\text{Mn}_3\text{F}_{11}$
Hayashida S., Ishikawa H., Okamoto Y., Okubo T., Hiroi Z., Avdeev M., Manuel P., Hagihala M., Soda M., Masuda T.
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- Pressure-induced quantum phase transition in the quantum antiferromagnet CsFeCl_3
Hayashida S., Zaharko O., Kurita N., Tanaka H., Hagihala M., Soda M., Itoh S., Uwatoko Y., Masuda T.
Phys. Rev. B **97** (2018) 140405-1-4
- High resolution chopper spectrometer HRC and neutron Brillouin scattering

Itoh S., Yokoo T., Masuda T., Yoshizawa H., Soda M., Ibuka S., Ikeda Y., Yoshida M., Hawai T., Kawana D., Sugiura R., Asami T., Kawamura Y., Shinozaki T., Ihata Y. AIP Conf. Proc., Vol. 1969 (AIP, U.S.A, 2018) pp. 50002–50002

- Improvement for Neutron Brillouin Scattering Experiments on High Resolution Chopper Spectrometer HRC
Itoh S., Yokoo T., Masuda T., Yoshizawa H., Soda M., Yoshida M., Hawai T., Kawana D., Sugiura R., Asami T., Ihata Y.
J. Phys.: Conf. Series, Vol. 1021 (IOP Publishing, U. K., 2018) pp. 12028–12028
- Continuum Excitation and Pseudospin Wave in Quantum Spin-Liquid and Quadrupole Ordered States of $Tb_{2+x}Ti_{2-x}O_{7+y}$
Kadowaki H., Wakita M., Fak B., Ollivier J., Ohira-Kawamura S., Nakajima K., Takatsu H., Tamai M.
J. Phys. Soc. Jpn. **87** (2018) 64704–64704
- YUI and HANA: control and visualization programs for HRC in J-PARC
Kawana D., Soda M., Yoshida M., Ikeda Y., Asami T., Sugiura R., Yoshizawa H., Masuda T., Hawai T., Ibuka S., Yokoo T., Itoh S.
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- Two inherent crossovers of the diffusion process in glass-forming liquids
Kofu M., Faraone A., Tyagi M., Nagao M., Yamamuro O.
Phys. Rev. E **98** (2018) 42601–42606
- Small-angle scattering study of tetra-poly(acrylic acid) gels
Morishima K., Li X., Oshima K., Mitsukami Y., Shibayama M.
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- Insight into the microscopic structure of module-assembled thermoresponsive conetwork hydrogels
Nakagawa S., Shibayama M., Kamata H., Sakai T., Gilbert E.
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- Degenerate ground state in the classical pyrochlore antiferromagnet $Na_3Mn(CO_3)_2Cl$
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- Neutron scattering studies on short- and long-range layer structures and related dynamics in imidazolium-based ionic liquids
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- Characterization of microstructure using Bragg edge and energy-resolved small-angle neutron scattering
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- Neutron Diffraction Studies on Valence Ordering Compound YbPd
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- Gels: From Soft Matter to BioMatte
Shibayama M., Li X., Sakai T.
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- Polarization analysis of magnetic excitation in multiferroic $Ba_2CoGe_2O_7$
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- Crystalline Electric Field Level Scheme of the Non-Centrosymmetric CePtSi₃
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- Magnetic structure of a non-centrosymmetric CePtSi₃
Ueta D., Yoshida M., Ikeda Y., Liu Y., Hong T., Masuda T., Yoshizawa H.
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- Magnetic and thermodynamic studies on the charge and spin ordering in the highly-
doped La_{2-x}Sr_xCoO₄
Yoshida M., Ueta D., Ikeda Y., Yokoo T., Itoh S., Yoshizawa H.
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- Powder neutron diffraction in one-dimensional frustrated chain compound
NaCuMoO₄(OD)
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- Spin dynamics in the stripe-ordered buckled honeycomb lattice antiferromagnet
Ba₂NiTeO₆
Asai S., Soda M., Kasatani K., Ono T., Garlea V. O., Winn B., Masuda T.
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- Magnetic excitations from the two-dimensional interpenetrating Cu framework in
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- Possible Tomonaga-Luttinger spin liquid state in the spin-1/2 inequilateral
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- New Oxide-Ion Conductor SrYbInO₄ with Partially Cation-Disordered CaFe₂O₄-Type
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Fujimoto A., Yashima M., Fujii K., Hester J.R.
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- Neutron Scattering Study in Breathing Pyrochlore Antiferromagnet Ba₃Yb₂Zn₅O₁₁
Haku T., Soda M., Sera M., Kimura K., Taylor J., Itoh S., Yokoo T., Matsumoto Y.,
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- Fast-forming hydrogel with ultralow polymeric content as an artificial vitreous
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- Impurity effects in the microscopic elastic properties of polycrystalline Mg-Zn-Y alloys with a synchronized long-period stacking ordered phase
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- 金属強磁性体SrRuO₃のスピン波におけるワイルフェルミオン
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- A layered wide-gap oxyhalide semiconductor with an infinite ZnO₂ square planar sheet: Sr₂ZnO₂Cl₂
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Dissertations

2018

- Title: Novel magnetic excitations in spin systems investigated by neutron scattering
Author: Hayashida S.
Degree type: Doctor/Ph.D
Received from: ISSP, University of Tokyo (2018)
- Title: Molecular Studies of Solvation for Polymers in Ionic Liquids
Author: Hirosawa K.
Degree type: Doctor/Ph.D
Received from: The University of Tokyo (2018)
- Title: マルチフェロイック物質CeFe₃(BO₃)₄のバルク物性と磁気構造解析
Author: Kato D.
Degree type: Master

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- Title: Fabrication of Physical Gels crosslinked with double-stranded DNA
Author: Yoshikawa Y.
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2017

- Title: Studies on cross-correlated phenomena in multiferroic CuFeO₂
Author: Tamatsukuri H.
Degree type: Doctor/Ph.D
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- Title: 反転対称性の破れた希土類化合物R₅Ru₃Al₂ (R=La, Ce, Pr)の新奇磁気秩序
Author: Makino K.
Degree type: Master
Received from: IMRAM, Tohoku University (2017)
- Title: Quantum-Beam Scattering Study on Superlattice Phase Transition and Electronic State of R₃Rh₄Sn₁₃ (R = Ce, La)
Author: Suyama K.
Degree type: Master
Received from: Tohoku University (2017)

2016

- Title: ブリージングパイロクロア格子系Ba₃Yb₂Zn₅O₁₁の中性子散乱研究
Author: Haku T.
Degree type: Doctor/Ph.D
Received from: ISSP, University of Tokyo (2016)
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2015

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- Title: サマリウム系充填スクッテルダイトSmFe₄P₁₂の多重項励起に関する研究
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- Title: 第一原理計算、中性子・放射光x線によるリチウムイオン電池正極材料 $\text{Li}_2\text{MnO}_3\text{-Li}(\text{Ni}_{1/3}\text{Co}_{1/3}\text{Mn}_{1/3})\text{O}_2$ 固溶体の充電過程の平均・局所構造及び電子構造
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- Title: リエントラント金属-非金属転移を示す $\text{Pr}_{1-x}\text{Ce}_x\text{Ru}_4\text{P}_{12}$ の超格子構造の研究
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- Title: フラストレート磁性体 $\text{Tb}_{2+x}\text{Ti}_{2-x}\text{O}_{7+y}$ の多極子秩序と新奇量子相
Author: Taniguchi T.
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2012

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- Title: $(\text{Bi}, \text{Na}) (\text{Ti}, \text{Nb}, \text{Ta})\text{O}_3$ 系強誘電体の物性、結晶・電子構造と強誘電特性
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Degree type: Master
Received from: Saga University (2012)
- Title: 中性子散乱による層状ニッケル酸化物 $\text{R}_2-x\text{Sr}_x\text{NiO}_4$ ($\text{R}=\text{La}, \text{Pr}$) のスピン・電荷相関の研究
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Degree type: Master
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- Title: 超音波処理による5V級リチウムイオン電池正極材料 $\text{LiMn}_{1.5}\text{Ni}_{0.5}\text{O}_4$ の物性、結晶・電子構造と電池特性
Author: Ishikawa T.
Degree type: Master
Received from: Faculty of Science and Technology, Tokyo University of Science (2012)
- Title: 還元熱処理によるリチウムイオン電池正極材料 $\text{Li}_2\text{MnO}_3\text{-Li}(\text{Mn}, \text{Co}, \text{Ni})\text{O}_2$ 系固溶体の物性、平

均・局所構造、電子構造と電池特性

Author: Kashima T.

Degree type: Master

Received from: Faculty of Science and Technology, Tokyo University of Science (2012)

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Author: Konno T.
Degree type: Master
Received from: Ibaraki University (2012)
- Title: 銅酸化物R_{2-x}(Ce,Ca)_xCuO₄ (R=rare earth)における磁気相関の電子-ホール対称性の研究
Author: Miura T.
Degree type: Master
Received from: Tohoku University (2012)
- Title: CexLa_{1-x}B₆のIV相への希土類イオン添加および圧力効果の研究
Author: Soejima K.
Degree type: Master
Received from: Graduate School of Advanced Sciences of Matter, Hiroshima University (2012)
- Title: Rare earth ion doping and high pressure effect on the phase IV of CexLa_{1-x}B₆
Author: Soejima K.
Degree type: Master
Received from: AdSM, Hiroshima University (2012)
- Title: High temperature structure of KDP and DKDP
Author: Kaki Y.
Degree type: Bachelor
Received from: Yamaguchi University (2012)
- Title: High temperature structure of DKDP and KDP
Author: Yamamoto Y.
Degree type: Bachelor
Received from: Yamaguchi University (2012)

2011

- Title: 非溶媒界面における高分子の凝集状態に関する研究
Author: Atarashi H.
Degree type: Doctor/Ph.D
Received from: Kyushu University (2011)
- Title: 単層CuO₂面を持つ銅酸化物超伝導体のアンダードープ領域における磁気励起研究
Author: Enoki M.
Degree type: Doctor/Ph.D
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- Title: Precise Analyses of High Performance Polymer Gels
Author: Matsunaga T.
Degree type: Doctor/Ph.D

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Author: Mayumi K.
Degree type: Doctor/Ph.D
Received from: University of Tokyo (2011)
- Title: Study on Potassium Dihydrogen Phosphate and Potassium Dideuterium Phosphate by Single-Crystal Neutron Structural Analyses
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Received from: Yamaguchi University (2011)
- Title: Investigation of Structural Modeling and Diffusion Dynamics by Quasi-elastic Neutron Scattering Technique on Hydrophobic Hydration in Lower Alcohol Aqueous Solutions
Author: Nakada M.
Degree type: Doctor/Ph.D
Received from: Niigata University (2011)
- Title: 鉄酸化物系熱電半導体の物性と応用
Author: Nozaki T.
Degree type: Doctor/Ph.D
Received from: Department of Applied Physics, Graduate School of Engineering, Tohoku University (2011)
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Degree type: Doctor/Ph.D
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- Title: Phase Structure Control of Multi-Component Polymer Systems by Tuning the Interaction Strength via Molecular Design
Author: Siti Sarah A. R.
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Degree type: Master
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Degree type: Master
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Degree type: Master
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Degree type: Master

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Author: Kimura K.
Degree type: Doctor/Ph.D
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Author: Kubo H.
Degree type: Doctor/Ph.D
Received from: Hiroshima University (2010)
- Title: ハニカム格子系の物性研究 -spin gapを持つNa₃Cu₂SbO₆の磁気励起およびLi₂RuO₃の新型相転移機構-
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Author: Hondo S.
Degree type: Master
Received from: International graduate schools of arts and sciences, Yokohama City University (2010)
- Title: GdB₆ の電子-格子相互作用に関わるフォノン異常の研究
Author: Igarashi R.
Degree type: Master
Received from: Tohoku University (2010)
- Title: Bi₄Si₃O₁₂, F添加(Bi, M)₄(Ti, M')₃O₁₂ (M=La, Nd; M'=Mo) 強誘電体の物性、結晶構造と強誘電

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- Author: Iiyama T.
Degree type: Master
Received from: Faculty of Science and Technology, Tokyo University of Science (2010)
- Title: 層状化合物CePd₅Al₂とカゴ状化合物RT₂Zn₂₀ (R=La,Ce,Pr,Nd, T=Ru,Ir)の磁性と伝導
Author: Inoue F. Y.
Degree type: Master
Received from: Hiroshima University (2010)
 - Title: 鉄系超伝導体 SrFe₂As₂ 単結晶の高圧下中性子回折実験
Author: Ishida H.
Degree type: Master
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 - Title: 中性子散乱による電子ドープ型Pr_{1.4-x}La_{0.6}Ce_xCuO₄の反強磁性相における磁気相関の研究
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Received from: Graduate School of Science, Kyoto University (2010)
 - Title: 中性子単色化Ge単結晶素子の高反射率 化と二波長中性子回折への応用
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Degree type: Master
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Author: Okue M.
Degree type: Master
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Degree type: Master
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Received from: Nara Women's University (2010)
 - Title: 中性子反射率法を用いたトライボロジー界面のナノ構造解析—添加剤吸着分子膜が摩擦特性に及ぼす影響—
Author: Torii T.

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Author: Yamamoto T.

Degree type: Master

Received from: Graduate School of Science, Kyoto University (2010)

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Author: Shiramizu M.

Degree type: Bachelor

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