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Publications

2020

- Helical and collinear spin density wave order in the $S = 1/2$ one-dimensional frustrated chain compound $\text{NaCuMoO}_4(\text{OH})$ investigated by neutron scattering
Asai S., Oyama T., Nawa K., Nakao A., Munakata K., Kuwahara K., Hagihala M., Itoh S., Hiroi Z., Masuda T.
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 - Spray-drying synthesized lithium-excess $\text{Li}_{4+x}\text{Ti}_{5-x}\text{O}_{12-\square}$ and its electrochemical property as negative electrode material for Li-ion batteries
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Dissertations

2020

- Title: First Principle Calculations & Inelastic Neutron Scattering on the Single-Crystalline Superconductor LaPt_2Si_2
Author: MAZZA F.
Degree type: Master
Received from: KTH ROYAL INSTITUTE OF TECHNOLOGY (2020)
- Title: Near ideal physical gel cross-linked via double-stranded DNA
Author: Ohira M.
Degree type: Master
Received from: The University of Tokyo (2020)

2019

- Title: Control of stoichiometry and observation of spin excitation in the $S = 1/2$ bilayer triangular lattice antiferromagnet $\text{LiZn}_2\text{Mo}_3\text{O}_8$
Author: SANDVIK K. E. A.
Degree type: Doctor/Ph.D
Received from: Tohoku University (2019)
- Title: 空間反転対称性の破れた重い電子系CeTSi₃ ($T = \text{Rh}, \text{Ir}, \text{Pd}, \text{Pt}$)の磁気構造と結晶場準位の研究
Author: Ueta D.
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Received from: ISSP, The University of Tokyo (2019)
- Title: Spin Excitations and Neutron Spin Resonance Studies in New-type Iron-based Superconductors
Author: Xie T.
Degree type: Doctor/Ph.D
Received from: The University of Chinese Academy of Sciences (2019)
- Title: 超酸化物NaO₂の中性子散乱研究

Author: Iida S.
Degree type: Master
Received from: ISSP, The University of Tokyo (2019)

- Title: 中性子散乱実験によるトポロジカル超伝導体 β -PdBi₂の研究

Author: Kagamida N.
Degree type: Master
Received from: Ochanomizu University (2019)

- Title: ブリージングパイロクロア格子反強磁性体Ba₃Yb₂Zn₅O₁₁における超高分解能中性子散乱研究

Author: Kikuchi H.
Degree type: Master
Received from: ISSP, The University of Tokyo (2019)

- Title: 2等辺三角格子反強磁性体 CoNb₂O₆における交換相互作用の一軸応力による異方的制御

Author: Shinoda Y.
Degree type: Master
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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: Thermodynamic and neutron scattering study on super-high entropy liquids alkylated tetraphenylporphyrin

Author: Nirei M.
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- Title: Fabrication of Physical Gels crosslinked with double-stranded DNA

Author: Yoshikawa Y.
Degree type: Master
Received from: The University of Tokyo (2018)

2017

- Title: Studies on cross-correlated phenomena in multiferroic CuFeO₂

Author: Tamatsukuri H.
Degree type: Doctor/Ph.D
Received from: Tokyo University of Science (2017)

- Title: 2等辺三角格子反強磁性体CoNb₂O₆における1軸応力による磁気秩序形成の制御
Author: Henmi R.
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Received from: Tokyo University of Science (2017)
 - 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.
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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
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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)
 - Title: 梯子形鉄系化合物における結晶及び磁気構造と輸送現象に関する研究
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 - Title: トポロジカル近藤絶縁体YbB₁₂のZr置換によるフェルミ準位チューニング
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- Title: Quantum spin liquid state of $Tb_{2+x}Ti_{2-x}O_{7+y}$
Author: Wakita M.
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- Title: Sr₂M_{Si2O7}(M=Cu,Co,Mn)の磁気構造
Author: Yoshida T.
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2015

- Title: Structural Study of Self-Assembled Aggregates Formed by Ionic Oligomeric Surfactants
Author: Kusano T.
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- Title: マルチフェロイクス物質NdFe₃(BO₃)₄の中性子散乱研究
Author: Hayashida S.
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Received from: ISSP, University of Tokyo (2015)
- Title: 低温蒸着法による単純分子ガラスの構造研究
Author: Mizuno Y.
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- Title: Electronic phase transition accompanied by chiral structural transformation of R₃Co₄Sn₁₃ (R = Ce, La)
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2014

- Title: Hydration Structure of Biomolecules Studied by Neutron and X-ray Diffraction Techniques
Author: Miyazaki T.
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- Title: Studies on gelation kinetics of model polymer networks
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Author: Miyatsu S.
Degree type: Master
Received from: ISSP, University of Tokyo (2014)
- Title: サマリウム系充填スケルタルダイト SmFe₄P₁₂ の多重項励起に関する研究
Author: Suzuki A.
Degree type: Master
Received from: Ibaraki University (2014)
- Title: 輸送および熱力学特性の測定と中性子非弾性散乱実験による層状ニッケル酸化物 R₂-xSr_xNiO₄ (R=La, Nd) の市松模様相の研究
Author: Suzuki M.
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2013

- Title: Synthesis and Structural Analysis of High Performance Gel Containing Ionic Liquid
Author: Asai H.
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- Title: Cross-link Inhomogeneity of Phenolic Resins
Author: Izumi A.
Degree type: Doctor/Ph.D
Received from: Ph D. (2013)
- Title: リチウムイオン電池用チタン酸化物電極材料の合成と電池特性に関する研究
Author: Sakao M.
Degree type: Doctor/Ph.D
Received from: Yokohama National University (2013)
- 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 Li₂MnO₃-Li(Ni_{1/3}Co_{1/3}Mn_{1/3})O₂ 固溶体の充電過程の平均・局所構造及び電子構造
Author: Akatsuka K.
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Received from: Faculty of Science and Technology, Tokyo University of Science (2013)
- Title: スピンギャップ物質の中性子散乱研究
Author: Haku T.
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Received from: ISSP, University of Tokyo (2013)

- Title: 酸素分子磁性の研究
 Author: Honma Y.
 Degree type: Master
 Received from: University of Tokyo (2013)
- Title: 2次元層状Ni酸化物の絶縁体金属転移近傍におけるスピンドイナミクス
 Author: Nakabayashi T.
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 Received from: ISSP, University of Tokyo (2013)
- Title: 遍歴電子反強磁性体Mn(3-x)Fe(x)Siのスピンドイナミクスの研究
 Author: Nara S.
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 Received from: Graduate School of Science, Tohoku University (2013)
- Title: リエントラント金属-非金属転移を示すPr_{1-x}Ce_xRu₄P₁₂の超格子構造の研究
 Author: Sato T.
 Degree type: Master
 Received from: Tohoku University (2013)
- Title: フラストレート磁性体Tb_{2+x}Ti_{2-x}O_{7+y}の多極子秩序と新奇量子相
 Author: Taniguchi T.
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 Received from: Department of Physics, Tokyo Metropolitan University, Hachioji-shi, Tokyo 192-0397 (2013)

2012

- Title: 鉄ニクタيد化合物BaFe₂As₂における反強磁性相関の中性子散乱による研究
 Author: Ikuka S.
 Degree type: Doctor/Ph.D
 Received from: University of Tokyo (2012)
- Title: 軌道縮退したスピネル型酸化物におけるスピーン-軌道-格子結合と交差相関物性
 Author: Nii Y.
 Degree type: Doctor/Ph.D
 Received from: Tohoku University (2012)
- Title: Structural Analysis and Mechanical Properties of High Performance Nanocomposite Gels
 Author: Nishida T.
 Degree type: Doctor/Ph.D
 Received from: The University of Tokyo (2012)
- Title: Study on ordering and fluctuation of totally symmetric multipoles inducing metal-nonmetal transition
 Author: Saito K.
 Degree type: Doctor/Ph.D
 Received from: Tohoku University (2012)
- Title: A study of valence ordering in YbPd and EuPt_{1-x}As_x
 Author: Sugishima M.
 Degree type: Doctor/Ph.D
 Received from: Kyushu University (2012)
- Title: 長周期スピニ構造における 磁気構造解析と磁気励起の研究 -中性子散乱の実験技術開発を通して-
 Author: Yano S.

Degree type: Doctor/Ph.D

Received from: Aoyama Gakuin University (2012)

- Title: LaCoO₃のスピン状態制御によって誘起される弱強磁性

Author: Asai S.

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Received from: Nagoya University (2012)

- Title: Dynamics and structure of water confined in organic-inorganic hybrid mesoporous materials

Author: Aso M.

Degree type: Master

Received from: Fukuoka University (2012)

- Title: 有機-無機ハイブリッドメソ多孔性物質中に閉じ込められた水のダイナミクスと構造

Author: Aso M.

Degree type: Master

Received from: Fukuoka University (2012)

- Title: (Bi,Na) (Ti,Nb,Ta)O₃系強誘電体の物性、結晶・電子構造と強誘電特性

Author: Fujishiro N.

Degree type: Master

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

- Title: ハロゲン化アルカリ塩誘起によるアセトニトリル-水混合溶液の相分離

Author: Haramaki H.

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R_{2-x}SrxNiO₄(R=La, Pr) のスピン・電荷相関の研究

Author: Imasato T.

Degree type: Master

Received from: Tohoku University (2012)

- Title: 超音波処理による5V級リチウムイオン電池正極材料LiMn_{1.5}Ni_{0.5}O₄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Li₂MnO₃-Li(Mn, Co, Ni)O₂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)

- Title: Neutron scattering study on localization and itinerancy involving f2 electron state in PrCu₄T (T=Au, Ag)

Author: Kobayashi H.

Degree type: Master

Received from: Tohoku University (2012)

- Title: サマリウム系充填スクッテルライト及びセリウムヘキサボライドの純良単結晶育成

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.
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- Title: High temperature structure of DKDP and KDP
Author: Yamamoto Y.
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- 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
Received from: Tohoku University (2011)
- Title: Precise Analyses of High Performance Polymer Gels
Author: Matsunaga T.
Degree type: Doctor/Ph.D
Received from: The University of Tokyo (2011)
- Title: ポリロタキサンの分子ダイナミクスと環動ゲルの力学物性
Author: Mayumi K.
Degree type: Doctor/Ph.D
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- Title: Study on Potassium Dihydrogen Phosphate and Potassium Dideuterium Phosphate by Single-Crystal Neutron Structural Analyses
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Degree type: Doctor/Ph.D
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.
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Degree type: Doctor/Ph.D
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Received from: Kyushu University (2011)
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Author: Siti Sarah A. R
Degree type: Doctor/Ph.D
Received from: Nagoya University (2011)
- Title: Characterization of interface at water/ sulfobetaine-type polymer brushes prepared by controlled radical polymerization
Author: Terayama Y.
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Received from: Kyushu University (2011)
- Title: パルス中性子散乱実験に向けた微少YBCO単結晶の育成とアセンブルした試料を用いた磁気シグナルの観測
Author: Ai Y.
Degree type: Master
Received from: Tohoku University (2011)
- Title: Surface Active Properties of Tadpole-type Amphiphilic Dendrimers and Nano-Structural Analysis of Aggregates Formed in Aqueous
Author: Ebihara A.
Degree type: Master
Received from: Graduated School of Humanities and Sciences, Nara Women's University (2011)
- Title: リチウムイオン電池正極材料Li_{(Mn,M)0.5(Ni, M')0.502}の結晶・電子構造と電池特性の組成依存
Author: Endo H.
Degree type: Master
Received from: Faculty of Science and Technology, Tokyo University of Science (2011)
- Title: The effects of surfactant and initiator on miniemulsion polymerization kinetics
Author: Enomoto Y.
Degree type: Master
Received from: Graduate School on Engineering, Chiba University (2011)
- Title: フラストレーション反強磁性体CuFe_{1-x}MnxO₂の磁性と強誘電性
Author: Fukatsu R.
Degree type: Master
Received from: Department of Applied Physics, Graduate School of Engineering, Tohoku University (2011)

- Title: 擬二次元オキシカルコゲナイト $\text{Ln}_2\text{M}_2\text{O}_3\text{Se}_2$ (Ln=希土類元素, M=遷移金属元素)の結晶構造と磁性
 Author: Fuwa Y.
 Degree type: Master
 Received from: Division of Chemistry, Graduate School of Science, Hokkaido University (2011)
- Title: LaMGaO₄(M=Sr,Ba)系イオン伝導体における欠陥構造の回折・散乱測定による評価と第一原理計算による理論解析
 Author: Hamao N.
 Degree type: Master
 Received from: Faculty of Science and Technology, Tokyo University of Science (2011)
- Title: 水界面における高分子ブレンド表面の構造制御とバイオ関連機能
 Author: Hirata T.
 Degree type: Master
 Received from: Dept. of Appl. Chem., Kyushu University (2011)
- Title: 塩化アルカリ塩誘起によるHFIP-水混合溶液の相分離
 Author: Kouda Y.
 Degree type: Master
 Received from: Saga University (2011)
- Title: Sr-Bi-(M,M',Si)-O(M=Ta,Nb,M'=W,Mo)強誘電体の結晶・電子構造と強誘電特性の組成依存
 Author: Muroi R.
 Degree type: Master
 Received from: Faculty of Science and Technology, Tokyo University of Science (2011)
- Title: 中性子散乱分光による電子ドープ型銅酸化物 $\text{Pr}_{1.4-x}\text{La}_{0.6}\text{Ce}_x\text{CuO}_4$ の反強磁性磁気秩序相における磁気励起の研究
 Author: Shigiyama K.
 Degree type: Master
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- Title: Impurity effect on the magnetism in two kinds of triangular lattice magnets
 Author: Takahashi R.
 Degree type: Master
 Received from: Tokyo University of Science (2011)
- Title: リチウムイオン電池正極材料 $\text{Li}(\text{Ni},\text{Co},\text{M})\text{O}_2$ (M=Cu,Zn)の熱力学的安定性、結晶・電子構造と電池特性
 Author: Tsukada Y.
 Degree type: Master
 Received from: Faculty of Science and Technology, Tokyo University of Science (2011)
- Title: クラスレート化合物Eu₈Ga₁₆Ge₃₀の特異な強磁性に対するキャリア制御と圧力の効果
 Author: Yamane H.
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 Received from: Hiroshima University (2011)
- Title: フラストレーション系クロムスピネルのスピン励起
 Author: Yokobori T.
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- Title: 延伸ポリエチレンの各分子量成分の役割
 Author: Tomita N.

Degree type: Bachelor
Received from: Yamagata University (2011)

- Title: Low temperature structure of KDA
Author: Tsukamoto H.
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2010

- Title:らせん磁性強誘電体における電気分極の磁場による制御
Author: Abe N.
Degree type: Doctor/Ph.D
Received from: Tohoku University (2010)
- Title: 少数スピン系分子磁性体の中性子動的散乱関数の解明
Author: IIida K.
Degree type: Doctor/Ph.D
Received from: University of Tokyo (2010)
- Title: 規則構造をもつ三角格子コバルト酸化物の研究
Author: Igarashi D.
Degree type: Doctor/Ph.D
Received from: Graduate School of Engineering, Tohoku University (2010)
- Title: 機能性酸化物と低分子糖類の結晶構造と電子密度分布に関する研究
Author: Kataoka K.
Degree type: Doctor/Ph.D
Received from: University of Tsukuba (2010)
- Title: Neutron Scattering Study on Formation Mechanism of Gas Hydrates and Dynamic Structures of Related Materials
Author: Kikuchi T.
Degree type: Doctor/Ph.D
Received from: University of Tokyo (2010)
- Title: 幾何学的にフラストレートした三角格子反強磁性体CuCrO₂の電気磁気特性
Author: Kimura K.
Degree type: Doctor/Ph.D
Received from: Graduate school of engineering science, Osaka University (2010)
- Title: 擬力ゴメ格子系反強磁性体YbAgGeにおける磁気フラストレーションの圧力と元素置換による緩和
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-
Author: Miura Y.
Degree type: Doctor/Ph.D
Received from: Department of Physics, Nagoya University (2010)
- Title: Comprehensive study on ferroelectricity induced by a proper-screw-type magnetic order in a delafossite multiferroic CuFeO₂
Author: Nakajima T.
Degree type: Doctor/Ph.D
Received from: Tokyo University of Science (2010)

- Title: Modeling of biomembranes using simple lipid mixture systems
 Author: Sakuma Y.
 Degree type: Doctor/Ph.D
 Received from: Ochanomizu University (2010)
- Title: Thermoelectric and Phononic Properties of Type-I Clathrates $Sr_8Ga_{16}Si_{30-x}Ge_x$ and $Ba_8Ga_{16}Sn_{30}$
 Author: Suekuni K.
 Degree type: Doctor/Ph.D
 Received from: Hiroshima University (2010)
- Title: Influence of the 2nd Component Distribution on Macroscopic Properties and Microscopic Structures of Polymer Gels
 Author: Takuya S.
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 Received from: University of Tokyo (2010)
- Title: Low Temperature Synthesis and Properties of Novel Iron Oxides with Square Planar Coordination
 Author: Tassel C.
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 Received from: Graduate School of Engineering, Kyoto University (2010)
- Title: Magnetoelectricity in Multiferroic Oxides
 Author: Yamasaki Y.
 Degree type: Doctor/Ph.D
 Received from: University of Tokyo (2010)
- Title: Neutron diffraction and AFMR studies of alkali-metal clusters in sodalite
 Author: Hanazawa A.
 Degree type: Master
 Received from: Osaka University (2010)
- Title: 低次元量子スピン物質 $BaCo_2V_2O_8$, $Pb_2V_3O_9$, および O_2 吸着 CPL-1 の磁気励起
 Author: Hondo S.
 Degree type: Master
 Received from: International graduate schools of arts and sciences, Yokohama City University (2010)
- Title: GdB_6 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: $Bi_4Si_3O_{12}$, F添加(Bi, M) $4(Ti, M')$ $3O_{12}$ ($M=La, Nd; M'=Mo$) 強誘電体の物性、結晶構造と強誘電特性
 Author: Iiyama T.
 Degree type: Master
 Received from: Faculty of Science and Technology, Tokyo University of Science (2010)
- Title: 層状化合物 $CePd_5Al_2$ とカゴ状化合物 RT_2Zn_{20} ($R=La, Ce, Pr, Nd$, $T=Ru, Ir$) 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 $SrFe_2As_2$ 単結晶の高圧下中性子回折実験
 Author: Ishida H.
 Degree type: Master
 Received from: University of Tokyo (2010)
- Title: 中性子散乱による電子ドープ型 $Pr_{1.4-x}La_{0.6}Ce_xCuO_4$ の反強磁性相における磁気相関の研究

Author: Kaminaga J.
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Received from: Faculty of Science Tohoku Univ. (2010)

- Title: イオン交換法による層状ペロブスカイトの合成、構造、二次元量子磁性
Author: Kitada A.
Degree type: Master
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
Author: Miyaka Y.
Degree type: Master
Received from: Faculty of Science Tohoku Univ. (2010)

- Title: Magnetic anisotropy and an anomalous metamagnetism in a rare-earth compound ErNi₂Ge₂
Author: Okue M.
Degree type: Master
Received from: Kyoto University (2010)

- Title: Pr_xFe₄Sb₁₂ の弱い磁気秩序に関する中性子散乱実験による研究
Author: Orihara T.
Degree type: Master
Received from: Tohoku University (2010)

- Title: 金属水素化物を低温還元剤として用いた新規無機物質の合成
Author: Sumida Y.
Degree type: Master
Received from: Graduate School of Science, Kyoto University (2010)

- Title: 銅イオン交換MFI型ゼオライトにおけるH₂分子の吸着状態
Author: Takahara K.
Degree type: Master
Received from: Okayama University (2010)

- Title: Component and temperature dependence of crystal and magnetic structure of MnRh alloy
Author: Takasaki A.
Degree type: Master
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.
Degree type: Master
Received from: Faculty of Engineering, Doshisha Univ. (2010)

- Title: 新規鉄酸化物BaFeO₂の合成と構造物性
Author: Yamamoto T.
Degree type: Master
Received from: Graduate School of Science, Kyoto University (2010)

- Title: 量子スピン系の実験と計算
Author: Shiramizu M.
Degree type: Bachelor
Received from: Yokohama City University (2010)