

2023 年 学会発表

2023 Presentation

Deepak Kumar, Naoki Kamata, Shigemi Mizukami,

“Tunnel magnetoresistance in MnGa-based magnetic tunnel junctions with metastable bcc CoMnFe interlayer”,

第 71 回応用物理学会春季学術講演会,

2024/3/22-2024/3/25

Kazuaki Ishibashi, Satoshi Iihama, Kouki Nukui, Shigemi Mizukami ,

“Photon-to-electron angular momentum conversion probed by laser-induced terahertz emission in Pt thin films”

第 71 回応用物理学会春季学術講演会,

2024/3/22-2024/3/25

中村駿希、森岡直也、水落憲和、水上成美、森下弘樹,

“Observation of Single NV Centers by Scanning Photocurrent Microscopy”

第 71 回応用物理学会春季学術講演会,

2024/3/22-2024/3/25

水上成美、廣畑貴文、白井正文,

“計算・データ科学を用いたトンネル磁気抵抗素子材料の開発” (招待講演)

第 71 回応用物理学会春季学術講演会,

2024/3/22-2024/3/25

Zaizhou Jin, Tomohiro Uchimura, Satoshi Iihama, Yuta Yamane, Junta Igarashi, Shunsuke Fukami, Shigemi Mizukami,

“Time-resolved magneto-optical Kerr effect for antiferromagnetic Mn₃Sn films with perpendicular magnetic anisotropy”

第 71 回応用物理学会春季学術講演会,

2024/3/22-2024/3/25

Takamasa Usami, Kenya Suzuki, Shigemi Mizukami, Kohei Hamya,

“Electric-field control of tunnel magnetoresistance ratio

in magnetic tunnel junctions with a Co₂FeSi/PMN-PT multiferroic heterostructure”

第 71 回応用物理学会春季学術講演会,

2024/3/22-2024/3/25

飯浜賢志, 水上成美,

"金属磁性ヘテロ構造における円偏光誘起スピンドYNAMICS"(招待講演)

日本物理学会 2024 年春季大会,

2024/3/18-2024/3/21

Zaizhou Jin, Tomohiro Uchimura, Satoshi Iihama, Yuta Yamane, Junta Igarashi,

Shunsuke Fukami, Shigemi Mizukami,

"Ultrafast collapse of octupole order in antiferromagnetic semimetal Mn₃Sn"

2023 年度スピントロニクス学術研究基盤と連携ネットワークシンポジウム,

2024/3/17

飯浜賢志, 抜井康起, 石橋一晃, 水上成美,

"金属磁性体薄膜における光のヘリシティが誘起するスピントルク"

2023 年度スピントロニクス学術研究基盤と連携ネットワークシンポジウム,

2024/3/17-2024/3/18

中村駿希, 森岡直也, 水落憲和, 水上成美, 森下弘樹

"走査型光電流顕微鏡による NV 中心イメージング"

2023 年度スピントロニクス学術研究基盤と連携ネットワークシンポジウム,

2024/3/17-2024/3/18

西岡真人, 山田道洋, Deepak Kumar, 水上成美, 浜屋宏平

"垂直磁化 Mn-Ga 上への Ge 固相エピタキシー"

2023 年度スピントロニクス学術研究基盤と連携ネットワークシンポジウム,

2024/3/17-2024/3/18

Kazuaki Ishibashi, Satoshi Iihama, Kouki Nukui, Shigemi Mizukami,

"Photon-spin injection into metal probed by terahertz emission" (招待講演),

第 27 回半導体におけるスピニエ学の基礎と応用(PASPS27),

2024/3/16-2024/3/17

中村駿希, 森岡直也, 水落憲和, 水上成美, 森下弘樹

"走査型光電流顕微鏡による NV 中心イメージング"

2023 年度スピントロニクス学術研究基盤と連携ネットワークシンポジウム,

2024/3/17-2024/3/18

Naoki Kamata, Kenya Suzuki, Deepak Kumar, Shigemi Mizukami,
“Growth of tetragonal MnGa nano-layer on metastable cubic AlN films”
第 27 回半導体におけるスピ工学の基礎と応用(PASPS27),
2024/3/16

Koki Nukui, Satoshi Iihama, Kazuaki Ishibashi, Shigemi Mizukami,
“Light-helicity induced spin-orbital angular momentum transfer torque in
ferromagnetic metals”
Tohoku-Lorraine Mini Workshop 2024,
2024/2/29

Zaizhou Jin, Tomohiro Uchimura, Satoshi Iihama, Yuta Yamane, Junta Igarashi,
Shunsuke Fukami, Shigemi Mizukami,
“Ultrafast collapse of octupole order in antiferromagnetic semimetal Mn₃Sn”
文科省 X-nics 事業「スピントロニクス融合半導体創出拠点」研究開発推進委員会 &
学生発表,
2024/2/29

Satoshi Iihama,
"Nanoscale and high-performance magnon reservoir computing" (invited)
GP-Spin/AIMR Mini Workshop on Magnonics,
2024/2/5

Satoshi Iihama, Kazuaki Ishibashi, Shigemi Mizukami,
"Photonic spin-torque in ferromagnet/heavy metal heterostructures"
MRM2023/IUMRS-ICA2023,
2023/12/11-2023/12/16

K. Ishibashi, J. Igarashi, M. Hehn, S. Iihama, J. Hohlfeld, J. Gorchon, S. Mangin, and
G. Malinowski,
“Magnetization reversal in Co/Pt spin valves without direct optical excitation”
MRM2023/IUMRS-ICA2023,
Kyoto, 2023/12/11-2023/12/16

T. Ichinose, J. Ikeda, Y. Onodera, T. Tsuchiya, K. Z. Suzuki, S. Mizukami
“Magnetic tunnel junctions with magnetic electrodes of metastable body centered cubic Co-Mn-Fe alloys”
MRM2023/IUMRS-ICA2023,
Kyoto, 2023/12/11-2023/12/16

抜井康起、飯浜賢志、石橋一晃、水上成美,
“CoPt 合金における円偏光誘起磁化ダイナミクス”
応用物理学会東北支部 第 78 回学術講演会,
2023.12.7

Kazuaki Ishibashi, Satoshi Iihama, Kouki Nukui, Shigemi Mizukami,
“Photon-to-electron spin conversion probed by transient terahertz emission in platinum thin films”
The 7th Symposium for the Core Research Clusters for Materials Science and Spintronics and the 6th Symposium on International Joint Graduate Program in Materials Science and Spintronics,
2023/11/28-2023/12/1

Zaizhou Jin, Tomohiro Uchimura, Satoshi Iihama, Yuta Yamane, Junta Igarashi, Shunsuke Fukami, Shigemi Mizukami,
“Ultrafast collapse of octupole order in antiferromagnetic Mn₃Sn films”
The 7th Symposium for the Core Research Clusters for Materials Science and Spintronics and the 6th Symposium on International Joint Graduate Program in Materials Science and Spintronics,
2023/11/28-2023/12/1

中村駿希、森岡直也、水落憲和、水上成美、森下弘樹,
“Photocurrent Imaging of Single Nitrogen-Vacancy Center”
The 7th Symposium for the Core Research Clusters for Materials Science and Spintronics and the 6th Symposium on International Joint Graduate Program in Materials Science and Spintronics,
2023/11/28 – 2023/12/1

Koki Nukui, Satoshi Iihama, Kazuaki Ishibashi, Shigemi Mizukami,

“Circularly polarized laser induced magnetization dynamics in Co_{1-x}Pt_x alloy thin films”

The 7th Symposium for the Core Research Clusters for Materials Science and Spintronics and the 6th Symposium on International Joint Graduate Program in Materials Science and Spintronics,
2023.11.16

中村駿希、森岡直也、水落憲和、水上成美、森下弘樹,

“Photoelectrically Detected Single Nitrogen-Vacancy Centers in Diamond”

The Joint Workshop of 5th Workshop on Quantum and Classical Cryogenic Devices, Circuits, and Systems (QCCC 2023), 16th Superconducting SFQ VLSI Workshop (SSV 2023), and 2nd International Workshop of Spin/Quantum Materials and Devices (IWSQMD 2023) ,
2023/11/16 – 2023/11/17

中村駿希、森岡直也、水落憲和、水上成美、森下弘樹,

“Photocurrent Imaging of Single Nitrogen Vacancy Center”

1st Workshop on the Chicago-Tohoku Quantum Alliance,
2023/10/5 – 2023/10/6

抜井康起、飯浜賢志、水上成美,

“Inverse magneto-optical effect in Co-Pt disordered alloy films”

第 47 回 日本磁気学会学術講演会,
2023.9.27

飯浜賢志, 小池雄也, 水上成美, 義永那津人,

"スピン波リザーバー高性能化に向けた短期記憶容量のスケーリング"

第 47 回日本磁気学会学術講演会,
2023/9/27-2023/9/29

Shigemi Mizukami

“Exploring advanced materials for spintronics” (invited talk)

Spintronics and Quantum Transformation (Spin-QX 2023), Julich, Germany
2023/8/8

Satoshi Iihama, Yuya Koike, Shigemi Mizukami, Natsuhiko Yoshinaga,

“Nano-scale physical reservoir computing based on propagating spin-wave”

Intermag 2023,

2023/5/15-2023/5/19, 2023

Zaizhou Jin, Ruma Mandal, Shigemi Mizukami,

“Investigation of damping in FeCo”

INS-ECRM 2023,

2023, May 15~18

R. Mandal, R. Momma, K. Ishibashi, S. Iihama, K. Suzuki, and S. Mizukami,

“Topologically Influenced Spintronic Terahertz Emission in Co₂MnGa Weyl Semimetal”

Intermag 2023,

2023/3/15-2023/3/19

Zaizhou Jin, Ruma Mandal, Shigemi Mizukami,

“Low Gilbert damping and damping anisotropy in Fe_xCo_{1-x} alloys films”

70th JSAP Spring Meeting, Japan,

2023/3/15-2023/3/18

Y. Ichinohe, S. Iihama, R. Mandal, S. Mizukami,

“Gilbert damping in Pt/Co films with different capping layers”

70th JSAP Spring Meeting,

2023/3/15-2023/3/18

Satoshi Iihama, Yuya Koike, Shigemi Mizukami, Natsuhiko Yoshinaga,

“Nano-scale reservoir computing based on propagating spin-waves in a ferromagnetic thin film”

第 70 回応用物理学会春季学術講演会,

2023/3/15-2023/3/18,