

論文リスト (2025年度分)

発表者	掲載誌	題名
H. Takahashi, A. Ikeda, S. Kitagawa, H. Kadobayashi, N. Hirao, K. Ishida, T. Imazu, Y. Maeno	<i>Journal of the Physical Society of Japan</i> , 94 (2025) 044605-1-7 DOI: https://doi.org/10.7566/JPSJ.94.044605	Subtle Structural Anomaly under Compression in Line-Nodal CaSb ₂
Z. Wu, M. Long, H. Chen, S. Paul, H. Matsuki, O. Zheliuk, U. Zeitler, G. Li, R. Zhou, Z. Zhu, D. Graf, T. I. Weinberger, F. M. Grosche, Y. Maeno, A. G. Eaton	<i>Physical Review X</i> , 15 (2025) 031044-1-13 DOI: https://doi.org/10.1103/5js8-2hj8	Fermi Surface of RuO ₂ Measured by Quantum Oscillations
S. Paul, G. Mattoni, H. Matsuki, T. Johnson, C. Sow, S. Yonezawa, Y. Maeno	<i>Journal of Crystal Growth</i> , 673 (2026) 128405-1-8, <i>Published online Nov. 2025</i> DOI: https://doi.org/10.1016/j.jcrysgro.2025.128405	Growth of ultra-clean oxide single crystals of the altermagnet candidate RuO ₂
G. Mattoni, T. Johnson, A. Ikeda, S. Paul, J. Bobowski, M. Sigrist, Y. Maeno	<i>Nature Communications</i> , 17 (2026) 700-1-7 <i>Published online in Dec. 2025</i> DOI: https://doi.org/10.1038/s41467-025-67307-1	Direct evidence for the absence of coupling between shear strain and superconductivity in Sr ₂ RuO ₄
H. Matsuki, R. Khasanov, J. A. Krieger, T. J. Hicken, K. Yuchi, J. S. Bobowski, G. Mattoni, A. Ikeda, R. Okuma, H. Luetkens, Y. Maeno	<i>Physical Review Letters</i> , 136 (2026) 066001-1-7 DOI: https://doi.org/10.1103/sgcz-9rc7	Muon Knight shift as a precise probe of the superconducting symmetry of Sr ₂ RuO ₄
T. Osumi, K. Yamauchi, S. Souma, P. Shubhankar, A. Honma, K. Nakayama, K. Ozawa, M. Kitamura, K. Horiba, H. Kumigashira, C. Bigi, F. Bertran, T. Oguchi, T. Takahashi, Y. Maeno, T. Sato	<i>Phys. Rev. B</i> , 113 (2026) 085116 DOI: https://doi.org/10.1103/wvs6-hqfv	Spin-degenerate bulk bands and topological surface states associated with Dirac nodal lines in RuO ₂
K. Hu, L. Si, J. Gao, L. Miao, S. Zhu, S. Zhao, J.-L. Chen, J. Zhou, K. Koumoto	<i>Journal of Materiomics</i> , 12 (2026) 101146	Toward inorganic flexible π -shaped thermoelectric generators with high output power density: From materials to devices
N. Salah, S. Abdullahi, K. Koumoto	<i>J. Sci.: Adv. Mater. Devices</i> , 11 (2026) 101132	Nanocomposite sheet based on ball-milled oil fly ash/SWCNT as an efficient, scalable, and low-cost thermoelectric material for power generation near room temperature
T. Suemoto, H. Morino, S. Ono, T. Okuno, T. Suzuki, K. Okazaki, S. Tani, Y. Kobayashi	<i>Phys. Rev. B</i> , 112 (2025) 035138 DOI: 10.1103/xn1s-28z3	Composition-dependent ultrafast luminescence in Cu-Ni alloys: Combined experimental and <i>ab initio</i> study
Y. Saito, K. Asaka	<i>Chemical Physics Letters</i> , 876 (2025) 142218 (5p)	Formation of ultra-slender CNTs via field emission discharge of CNT films
安坂幸師, 齋藤弥八	まてりあ (日本金属学会会報), 65 (2025) 47	電界放出中に発現するカーボンナノチューブからの光放出

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発表者	掲載誌	題名
S. Sakai, Y. Yamaji, F. Imoto, T. Tamegai, A. Kaminski, T. Kondo, Y. Kohsaka, T. Hanaguri, M. Imada	<i>Phys. Rev. X</i> , 16 (2026) 011018 (1-30)	Unified description of cuprate superconductors by fractionalized electrons emerging from integrated analyses of photoemission spectra and quasiparticle interference
K. Nishikawa, K. Fujii, M. Y. Fujita	<i>Phys. Chem. Chem. Phys.</i> , 27 (2025) 15126-15136	Nuclear magnetic resonance study of the relationship between phase behaviour and reorientational and translational dynamics in <i>N,N</i> -diethylpyrrolidinium bis(fluorosulfonyl)amide with a plastic crystal phase
K. Nishikawa, K. Fujii	<i>Phys. Chem. Chem. Phys.</i> , 28 (2026) 3227-3235	Heterogeneous Translational Dynamics of Succinonitrile in the Plastic Crystalline Phase
Y. Doi, N. Sakabe, Y. Takahashi, A. Takano, Y. Matsushita	<i>Polymer</i> , 338 (2025) 129092 DOI: 10.1016/j.polymer. 2025.129092	Miscibility Enhancement in a Symmetric Ring Diblock Copolymer Melt Due to Topological Constraint Studied by SAXS and Rheology
Y. Matsushita, M. Ohta, N. Suzuki, M. Suzuki, A. Takano	<i>ACS Nano</i> , 19 (2025) 35062-35070 DOI: 10.1021/acsnano. 5c12288	Various Dodecagon Assembly Manners as the Basis of Dodecagonal Quasicrystalline Tiling from Pentablock Quarterpolymers of the <i>AB₁CB₂D</i> Type
松下 裕 秀	<i>高分子</i> , 74 (2025) 687-694	共重合体の自発構造 — 70年のおさらいと展望
H. Tanaka, M. Matsumoto, T. Yagasaki, M. Takeuchi, Y. Mori, T. Kono	<i>J. Chem. Phys.</i> , 163 (2025) 124504	The solubilities of water in liquid CO ₂ coexisting with water or hydrate
T. Yagasaki, M. Matsumoto, H. Tanaka	<i>J. Chem. Phys.</i> , 164 (2026) 020901	PERSPECTIVE Statistical Mechanical Theory and Computational Study on Thermodynamic Stability of Clathrate Hydrates
T. Sugawara, M. Matsuo, T. Toyota	Bulletin of the Chemical Society of Japan BCSJ 100 th anniversary Collection	“Life” as a dynamic supramolecular system created through constructive approach
S. Mitaku, R. Sawada, N. Uchikoga	<i>Chem-Bio Informatics Journal</i> , 25 (2025) 79-89	Nucleotide Composition Plots: A Key to Biological Insights
C. Sanbin, K. Ueda, X. Tang, J. Li	<i>Optics Letters</i> , 50 (2025) 6213	205 W TEM00-mode-stacked Nd:YAG rotary disk laser with air cooling
T. Yoshida, S. Takao, H. Ariga-Miwa, X. Zhao, G. Samjeské, T. Kaneko, T. Uruga, Y. Iwasawa	<i>ACS Omega</i> , 10 (2025) 796-808	Transient Kinetic QXAFS Approach for Understanding the RDE–MEA Gap in Fuel Cell (Oxygen Reduction Reaction) Performances of Pt-based Electrocatalysts
H. Ariga-Miwa, T. Sasaki, T. Sakata, K. Higashi, T. Yoshida, O. Sekizawa, T. Kaneko, T. Uruga, Y. Iwasawa	<i>ACS Catalysis</i> , 15 (2025) 9856-9869	Cyclic Voltammetry Synchronized Operando HERFD-XANES and RIXS Analysis of Adsorbed Structures and Bonding States of Active Oxygen Species on Pt Nanoparticle Electrocatalysts in PEFC
P. Koley, S. C. Shit, T. Yoshida, H. Ariga-Miwa, T. Uruga, T. Hosseinnejad, S. Periasamy, D. Jampaiah, Y. Iwasawa, S. K. Bhargava	<i>Nature Communications</i> , 16 (2025) 8903	Metal Organic framework derived In ₂ O ₃ /ZrO ₂ heterojunctions with interfacial oxygen vacancies for highly selective CO ₂ -to-methanol hydrogenation
岩 澤 康 裕	<i>表面と真空</i> , 68 (2025) 1	最先端オペランド分光法の重要性と期待

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M. Otake, S. Omori, M. Kaneko, M. Palummo, G. Giorgi, K. Yamashita, A. Muraoka	<i>J. Phys. Chem. C</i> , 129 (2025) 18200-18210	Low-Energy Defects and Oxidative Stability in Sn and Sn/Ge Perovskites from First-Principles Calculations
E. Kino, M. Takagi, M. Tachikawa, K. Yamashita, T. Shimazaki	<i>J. Chem. Phys.</i> , 163 (2025) 104703	Theoretical study of Lewis base passivation of <i>p</i> -type surface defects in I-Br mixed-halide tin perovskites
S. Kobayashi-Kajikawa, M. Akasaka, M. Kaneko, K. Yamashita, A. Muraoka	<i>Chemical Physics Letters</i> , 883 (2026) 142512	Machine learning analysis of band gap difference between HSE and PBE functionals in double perovskites
M. Kaneko, H. Yoshida, K. Yamashita, K. Domen, K. Seki	<i>J. Mater. Chem. A</i> , 14 (2026) 4421-4432	Optimizing external quantum efficiency in photocatalysts via first-principles optics and carrier transport modeling
Y. Jin, Z. Hu, H. Xu, J. Cheng, Z. Yu, W. Yao, T. Zhao, W. Ji, Y. Ozaki, Y. Xie	<i>Adv. Mater.</i> , 2025, 2506426	Bioinspired Turing-Nanoarchitected Needle for Solid Matrices Analysis: A Universal Platform Enabling Dual-Scale SERS Enhancement
J. Li, Y. Wan, Z. Luo, C. Yang, Y. Ozaki, X. Yan, J.-G. Wang, F. Pi	<i>Angew. Chem. Int. Ed.</i> , 2025, e202509221 doi.org/10.1002/anie. 202509221	Azine-Pyridine Frame Generated Covalent Organic Frameworks and Self-Polymerized Films
K. Hashimoto, F. Matroodi, S. Morimatsu, B. Rossi, Y. Morisawa, Y. Ozaki, H. Sato	<i>J. Phys. Chem. Lett.</i> , 16 (2025) 1769-177	Study of N-Acetylamino Saccharides with Synchrotron-Based Ultraviolet Resonance Raman Spectroscopy: In Combination with ATR Far-Ultraviolet Spectroscopy
D. Ishikawa, A. He, Y. Xu, T. Fujii, Y. Ozaki	<i>Sci. Rep.</i> , 15 (2025) 16991	Evidence for two kinds of hydrogen-bonding networks in ionic solutions by 2D infrared correlation spectroscopy
Yukihiro Ozaki	<i>Spectroscopy</i> , https://doi.org/10.56530/spectroscopy.jc6576b4	Tip-enhanced Raman Scattering using a Chemically-modified
J. Li, G. Jiang, Y. Wan, J. Qi, Y. Ozaki, F. Pi	<i>Small</i> , 2025, 2505917	Covalent Organic Framework Film with Dynamic C=N—N/C—N=N Conjugated Backbones for Full-Spectrum UV Shielding
Y. Wu, L. Xie, Y. Jiang, A. He, D. Li, L. Yang, Y. Xu, K. Liu, Y. Ozaki, I. Noda	<i>Phys. Chem. Chem. Phys.</i> , 27 (2025) 1503	Further exploration of the physicochemical nature of I2-bridge-relevant deprotonations via the elucidation of four kinds of alditol complexes