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R.-Q. G. Xu, T. Okubo, S. Todo, M. Imada	<i>Computational Physics Communications</i> , 277 (2022) 108375	Optimized implementation for calculation and fast-update of Pfaffians installed to the open-source fermionic variational solver mVMC
K. Ido, K. Yoshimi, T. Misawa, M. Imada	<i>npj Quantum Materials</i> , 7 (2022) 48	Unconventional dual 1D-2D quantum spin liquid revealed by <i>ab initio</i> studies on organic solids family
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J.-B. Morère, M. Hirayama, M. T. Schmid, Y. Yamaji, M. Imada	<i>Physical Review B</i> , 106 (2022) 235150	<i>Ab initio</i> low-energy effective Hamiltonians for the high-temperature superconducting cuprates Bi ₂ Sr ₂ CuO ₆ , Bi ₂ Sr ₂ CaCu ₂ O ₈ , HgBa ₂ CuO ₄ , and CaCuO ₂
S. Takeuchi, Y. Hashimoto, H. Daimon, T. Matsushita	<i>Journal of Electron Spectroscopy and Related Phenomena</i> , 256 (2022) 147177	High-precision atomic image reconstruction from photoelectron hologram of O on W(110) by SPEA-L1
X.-L. Tan, H. Daimon, M. Taguchi, H. Matsuda, Y. Hashimoto, H. Momono, S. Yamamoto, I. Matsuda, H. Osawa, T. Matsushita	<i>SPring-8/SACLA Research Report</i> , 10 (2022) 431-434	Preliminary Study of Soft X-ray Time-resolved X ray Photoelectron Diffraction of Mott Insulator 1T-TaS ₂ at BL07LSU
H. Daimon, I. Tanaka	<i>Chemical Physics Letters</i> , 806 (2022) 140003	Z-dependence of forward scattering peak intensity of electron by atoms
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K. Yamanoi, S. Shibuta, N. Sarukura, K. Nishikawa, T. Morita, 他3名	<i>J. Supercritical Fluids</i> , 184 (2022) 105555	Structure disorder observation of fluoropolymers composed of vinylidene fluoride and tetrafluoroethylene in supercritical CO ₂ using time-resolved small- and wide-angle X-ray scattering
K. Nishikawa, K. Fujii, T. Yamada, M. Yoshizawa-Fujita, K. Matsumoto	<i>Chem. Phys. Lett.</i> , 803 (2022) 139771	Free Ionic Rotators on Crystal Lattice Points — Structures of Ionic Plastic Crystals —
T. Morita, M. Watanabe, K. Nishikawa, K. Higashi 他6名	<i>Phys. Chem. Chem. Phys.</i> , 24 (2022) 26575	A study combining magic-angle spinning NMR and small-angle X-ray scattering on the interaction in the mixture of poly(benzyl-methacrylate) and ionic liquid 1-ethyl-3-methylimidazolium bis(trifluoromethanesulfonyl)amide
T. Morita, T. Kadota, K. Kusano, Y. Tanaka, K. Nishikawa	<i>Jpn. J. Appl. Phys.</i> , 62 (2023) 016504	A method for determining the density fluctuations of supercritical fluids absolutely based on small-angle scattering experiments and application to supercritical methanol
Toshiyuki Itoh	<i>The Chemical Record</i> , 23 (2023) e202200275 DOI: https://doi.org/10.1002/tcr.202200275	Enzymatic Reactions using Ionic Liquids for Green Sustainable Chemical Process; Stabilization and Activation of Lipases

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Y. Doi, A. Takano, Y. Takahashi, Y. Matsushita	<i>Rheol. Acta</i> , 61 (2022) 681-688 DOI: 10.1007/s00397-022-01355-y	Terminal Relaxation Behavior of Entangled Linear Polymers Blended with Ring and Dumbbell-Shaped Polymers in Melts
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H. Tanaka, M. Matsumoto, T. Yagasaki	<i>J. Chem. Phys.</i> , 157 (2022) 174505	On the role of intermolecular vibrational motions for ice polymorphs. IV: Anisotropy in the thermal expansivity and the nonaffine deformation for ice IX and III
K. Kinjo, M. Manago, S. Kitagawa, Z. Q. Mao, S. Yonezawa, Y. Maeno, K. Ishida	<i>Science</i> , 376 (2022) 397-400 DOI: 10.1126/science.abb0332	Superconducting spin smecticity evidencing the Fulde-Ferrell-Larkin-Ovchinnikov state in Sr ₂ RuO ₄

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A. Ikeda, S. R. Saha, D. Graf, P. Saraf, D. Sergeevich-Sokratov, Y. Hu, H. Takahashi, S. Yamane, A. Jayaraj, J. Sławińska, M. B. Nardelli, S. Yonezawa, Y. Maeno, J. Paglione	<i>Physical Review B</i> , 106 (2022) 075151-1-9 DOI: 10.1103/PhysRevB. 106.075151	Quasi-two-dimensional Fermi surface of superconducting line-nodal metal CaSb ₂
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Yukihiro Ozaki	<i>NIR News</i> , 2022 DOI: 10.1177/ 09603360211067093	NIR spectroscopy — What a wonderful world!
E. Mitani, Y. Ozaki, H. Sato	<i>Polymer</i> , 246 (2022) 124725	Two types of C—O…HO hydrogen bonds and OH…OH (dimer, trimer, oligomer) hydrogen bonds in PVA with 88% saponification/PMMA and PVA with 99% saponification/PMMA blends and their thermal behavior studied by infrared spectroscopy
Y. Wang, C. Cheng, R. Ma, Z. Xu, Y. Ozaki	<i>Analyst</i> DOI: 10.1039/d2an00035k	<i>In situ</i> SERS monitoring of intracellular H ₂ O ₂ in single living cells based on label-free bifunctional Fe ₃ O ₄ @Ag nanoparticles
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P. Pienpinijtham, Y. Kitahama, Y. Ozaki	<i>Nanoscale</i> DOI: 10.1039/d2nr00274d	Progress of tip-enhanced Raman scattering for the last two decades and its challenges in very recent years
K. Hashimoto, Y. Morisawa, M. Tortora, B. Rossi, Y. Ozaki, H. Sato	<i>Appl. Spectrosc.</i> , 2022 DOI: 10.1177/ 00037028211070835	Attenuated Total Reflection Far-Ultraviolet (ATR-FUV) Spectroscopy is a Sensitive Tool for Investigation of Protein Adsorption
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A. He, L. Ni, H. Fu, X. Zhang, Z.-Q. Yu, J. Song, L. Yang, Y. Xu, Y. Ozaki, I. Noda	<i>Anal. Chem.</i> , 94 (2022) 12360-12367	Retrieving Spectra of Pure Components from the DOSY-NMR Experiment via a Comprehensive Approach Involving the 2D Asynchronous Spectrum, 2D Quotient Spectrum, and Genetic Algorithm Refinement
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H. Uematsu, N. Higashitani, A. Yamaguchi, A. Fukuishima, T. Asano, S. Mitsudo, S. Sugihara, M. Yamane, T. Irisawa, Y. Ozaki, S. Tanoue	<i>Surf. Interf.</i> , 34 (2022) 102300	Effects of polycarbonate crystals, π - π interactions, and chemical bonds at an interface on the interfacial adhesion between polycarbonate and reinforcing fibers

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A. Ikehata, K. Nakamura, Y. Ozaki	<i>Chem. Phys. Lett.</i> , 806 (2022) 140055	Extended molar absorption analysis of confined states of water in reverse micelles using near-infrared spectroscopy
H. Sato, Y. Morisawa, S. Takaya, Y. Ozaki	<i>Appl. Spectrosc.</i> , 76 (2022) 831-840	A Study of C=O...HO and OH...OH (Dimer, Trimer, and Oligomer) Hydrogen Bonding in a Poly(4-vinylphenol) 30%/Poly(methyl methacrylate) 70% Blend and its Thermal Behavior Using Near-Infrared Spectroscopy and Infrared Spectroscopy
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B. Ay, E. Yildiz, M. Enomoto, A. Okazawa, N. Kojima	<i>Polyhedron</i> , 226 (2022) 116110-1-11	Crystal Structures, Gas Storage and Magnetic Properties of Lanthanide-Organic Frameworks Built Up from Dicarboxylates, [Ln ₂ (2,5-pydc) ₂ (2,5-pipdc)(H ₂ O) ₂] _n (Ln = Ce, Pr, Eu) and (H ₂ pip) _n [Ln ₂ (2,6-pydc) ₄ (H ₂ O) ₂] _n (Ln = Ce, Pr, Eu, Sm)
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