

Harima Paper 2023

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1	Hydrogen-bonded Structure of Hydrated Water in Polyvinyl Pyrrolidone Aqueous Solution Investigated by X-ray Absorption and Emission Spectroscopy	Koichi Ozaki , Masaru Nakada , Masahiro Kunisu , Jumpei Yahiro , Kosuke Yamazoe , Yitao Cui , Jun Miyawaki , Yoshihisa Harada	Journal of Molecular Liquids	403		124822	2024
2	軟X線発光分光で見る水の水素結合とオペランド分光への展開	原田慈久	表面と真空	67	5	224-228	2024
3	The role of carboxylate ligand orbitals in the breathing dynamics of a metal-organic framework by resonant X-ray emission spectroscopy	Ralph Ugalino , Kosuke Yamazoe , Jun Miyawaki , Hisao Kiuchi , Naoya Kurahashi , Yuka Kosegawa , Yoshihisa Harada	Journal of Synchrotron Radiation	31		217-221	2024
4	Angle-resolved X-ray emission spectroscopy facility realized by an innovative spectrometer rotation mechanism at SPring-8 BL07LSU	Jun Miyawaki, Yuka Kosegawa and Yoshihisa Harada	Journal of Synchrotron Radiation	31	2	208-216	2024
5	Quasi-Periodic Growth of One-Dimensional Copper Boride on Cu(110)	Yuki Tsujikawa, Xiaoni Zhang, Kazuki Yamaguchi, Masahiro Haze, Takeru Nakashima, Arpita Varadwaj, Yusuke Sato, Masafumi Horio, Yukio Hasegawa, Fumio Komori, Masaki Oshikawa, Masato Kotsugi, Yasunobu Ando, Takahiro Kondo, Iwao Matsuda	Nano Letters	24		1160-1167	2024
6	Revealing the Unusual Mechanism of Mixed Cationic and Anionic Redox in Oxyfluorosulfide Cathode for All-Solid-State Fluoride-Ion Batteries	Zulai Cao, Kentaro Yamamoto, Toshiyuki Matsunaga, Toshiki Watanabe, Mukesh Kumar, Neha Thakur, Ryogo Ohashi, Shintaro Tachibana, Hidenori Miki, Kazuto Ide, Hideki Iba, Hisao Kiuchi, Yoshihisa Harada, Yuki Orikasa, and Yoshiharu Uchimoto	Chemistry of Materials	36	4	1928-1940	2024
7	Double-Layered Perovskite Oxyfluoride Cathodes with High Capacity Involving O–O Bond Formation for Fluoride-Ion Batteries	Hidenori Miki, Kentaro Yamamoto, Hiroyuki Nakaki, Takahiro Yoshinari, Koji Nakanishi, Shinji Nakanishi, Hideki Iba, Jun Miyawaki, Yoshihisa Harada, Akihide Kuwabara, Yanchang Wang, Toshiki Watanabe, Toshiyuki Matsunaga, Kazuhiko Maeda, Hiroshi Kageyama, and Yoshiharu Uchimoto	Journal of the American Chemical Society	146	6	3844-3853	2024
8	Hydrogen-Bonded Structures of Water Molecules in Hydroxy-Functionalized Nanochannels of Columnar Liquid Crystalline Nanostructured Membranes Studied by Soft X-ray Emission Spectroscopy	Kazuma Hamaguchi, Takeshi Sakamoto, Naoya Kurahashi, Yoshihisa Harada, and Takashi Kato	The Journal of Physical Chemistry Letters	15	2	454-460	2024
9	Determining factor of orbital torque efficiency in ferromagnet/Cu/Oxide thin films	Junyeon Kim, Jun Uzuhashi, Masafumi Horio, Tomoaki Senoo, Toshihide Sumi, Dongwook Go, Daegeun Jo, Iwao Matsuda, Tadakatsu Ohkubo, Seiji Mitani, Hyun-Woo Lee, and YoshiChika Otani	Phys. Rev. Materials	7		L111401	2023
10	Oxide layer dependent orbital torque efficiency in ferromagnet/Cu/oxide heterostructures	Junyeon Kim ,Jun Uzuhashi,Masafumi Horio, Tomoaki Senoo, Dongwook Go,Tetsuya Wada, Iwao Matsuda,Tadakatsu Ohkubo, Seiji Mitani, Daegeun Jo,6 Toshihide Sumi, Hyun-Woo Lee, and YoshiChika Otani	Physical Review Materials	7	11	L111401	2023
11	Structure and Electronic State of Boron Atomic Chains on a Noble Metal (111) Surface	Y. Tsujikawa, X. Zhang, M. Horio, F. Komori, T. Nakashima, Y. Ando, T. Kondo, I. Matsuda	e-Journal of Surface Science and Nanotechnology	22	1	1-8	2023
12	Hydrogen-induced sulfur vacancies on the MoS2 basal plane studied by AP-XPS and DFT calculations	Fumihiko Ozaki, Shunsuke Tanaka, YoungHyun Choi, Wataru Osada, Kozo Mukai, Mitsuki Kawamura, Masahiro Fukuda, Masafumi Horio, Takanori Koitaya, Susumu Yamamoto, Iwao Matsuda, Taisuke Ozaki, Jun Yoshinobu	ChemPhysChem	24		e202300477	2023
13	Resonant photoemission spectroscopy of atomic layer Fe 2 N on Cu(111) with continuous angular rotation of linearly polarized light	M. Horio, Y. Kudo, T. Wada, T. Sumi, Y. Hirata, M. Niibe, F. Komori, and I. Matsuda	J. Phys.: Condens. Matter	35	42	425001	2023

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2	Topological surface state of Bi ₂ Se ₃ modified by physisorption of n-Alkane	Rena Moue, Hiroto Yamazaki, Tatsuya Kitazawa, Koichiro Yaji, Hiroshi Yaguchi, Kenta Kuroda, Takeshi Kondo, Ayumi Harasawa, Takashi Iwahashi, Yukio Ouchi, Shik Shin and Kaname Kanai	ChemNanoMat	9		e202200538	2023