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1	In-Situ Electrical Detection of Methane Oxidation on Atomically Thin IrO ₂ Nanosheet Films Down to Room Temperature	Yoshiaki Ishihara, Takanori Koitaya, Wataru Sugimoto, Susumu Yamamoto, Iwao Matsuda, Jun Yoshinobu, and Ryo Nouchi	Advanced Materials Interfaces	in press			
2	Effective treatment of hydrogen boride sheets for long-term stabilization	S. Ito, M. Hikichi, N. Noguchi, M. Yuan, Z. Kang, K. Fukuda, M. Miyauchi, I. Matsuda, T. Kondo	Physical Chemistry Chemical Physics	in press			
3	Effect of carrier doping on the electronic states of earth-abundant Fe–Al–Si thermoelectric materials	Shunsuke Tsuda, Asako Yoshinari, Shingo Takezawa, Kenta Ohishi, Naoka Nagamura, Wenxiong Zhang, Yutaka Iwasaki and Yoshiaki Takagiwa	Mater. Res. Express	10		055506	2023
4	ウォルターミラーを利用した軟X線タイコグラフィ装置の開発 Development of soft X-ray ptychography system using Wolter mirror	木村隆志, 竹尾陽子, 櫻井 快, 古谷 登, 江川 悟, 山口豪太, 松澤雄介, 久米健大, 三村秀和, 志村まり, 大橋治彦, 松田 巖, 原田慈久	放射光	36	1		2023
5	Accelerating synthesis of topological borophane by the HCl assisted ion exchange reaction	Xiaoni Zhang, Miwa Hikichi, Takushi Iimori, Yuki Tsujikawa, Masafumi Horio, Kunio Yubuta, Fumio Komori, Masahiro Miyaochi, Takahiro Kondo, and Iwao Matsuda	Molecules	28		2985	2023
6	Observing an ordered surface phase by B deposition on Cu(110)	Yuki Tsujikawa, Xiaoni Zhang, Masafumi Horio, Tetsuya Wada, Masashige Miyamoto, Toshihide Sumi, Fumio Komori, Takahiro Kondo, Iwao Matsuda	Surf. Sci.	732		122282	2023
7	Developing a simple scanning probe system for soft X-ray spectroscopy with a nano-focusing mirror	Hiroshi Ando, Masafumi Horio, Yoko Takeo, Masahito Niibe, Tetsuya Wada, Yasunobu Ando, Takahiro Kondo, Takashi Kimura, Iwao Matsuda	e-J. Surf. Sci. Nanotechnol.	21		200-206	2023
8	Anisotropic Flocculation in Shear Thickening Colloid-polymer Suspension via Simultaneous Observation of Rheology and X-ray Scattering	Keishi Akada, Soichiro Okubo, Tatsuya Yamada, Kazuya Tokuda, Koji Yamaguchi, Shigeaki Uemura, Takamasa Onoki, Syogo Tejima, Motoyoshi Kobayashi, Jun-ichi Fujita	Colloids and Surfaces A: Physicochemical and Engineering Aspects	658		130727	2023
9	In search of a cyclic hydrogenated boron molecule and the prediction of 2,4,6,8-2H-1,5:1,5- μ H – B ₈ H ₁₀	Yasunobu Ando, Takeru Nakashima, Yin Heming, Ikuma Tateishi, Xiaoni Zhang, Yuki Tsujikawa, Masafumi Horio, Nguyen Thanh Cuong, Susumu Okada, Takahiro Kondo, and Iwao Matsuda	Molecules	28		1225	2023
10	Facet dependent electrochemical performance and electronic structure of LiCoO ₂ polyhedral particles revealed by microscopic resonant X-ray photoelectron spectroscopy	Wenxiong Zhang, Eiji Hosono, Daisuke Asakura, Shingo Tanaka, Masaki Kobayashi, Naoka Nagamura, Masaharu Oshima, Jun Miyawaki, Hisao Kiuchi, Yoshihisa Harada	Cryst.Eng.Comm.	25	2	183-188	2023
11	Highly dispersed Ni nanoclusters spontaneously formed on hydrogen boride sheets	Natsumi Noguchi, Shin-ichi Ito, Miwa Hikichi, Yohei Cho, Kazuho Goto, Atsushi Kubo, Iwao Matsuda, Takeshi Fujita, Masahiro Miyaochi, and Takahiro Kondo	Molecules	27		8261	2022
12	Structural and electronic evidence of boron atomic chains	Y. Tsujikawa, M. Horio, X. Zhang, T. Senoo, T. Nakashima, Y. Ando, T. Ozaki, I. Mochizuki, K. Wada, T. Hyodo, T. Iimori, F. Komori, T. Kondo, I. Matsuda	Phys. Rev. B	106		205406	2022
13	Homotopic analysis of quantum states in 2D polymorphs by a herringbone lattice model	Yasunobu Ando, Xiaoni Zhang, Yuki Tsujikawa, Yusuke Sato, Masafumi Horio, Jun Haruyama, Osamu Sugino, Takahiro Kondo, and Iwao Matsuda	Phys. Rev. B	106		195106	2022
14	Surface Exchange Reaction of Mixed Conductive La _{0.65} Ca _{0.35} FeO _{3-δ} during Oxygen Evolution and Incorporation as Traced by Operando X-ray	Isao Kagomiya, Tomohiro Hirano, Yutarc Yagi, Ken-ichi Kakimoto, Susumu Yamamoto and Iwao Matsuda	ACS Appl. Mater. Interfaces 2022	14	42	48194–48199	2022
15	The 2022 Magneto-Optics Roadmap	A. Kimel, I. Matsuda et al.	J. Phys. D: Appl. Phys.	55		463003	2022
16	放射光X線を用いる散乱・分光分析によりソフトマテリアルの特性解析	高原淳、石毛亮平、平井智康、西堀麻衣子、檜垣勇次、山添康介、原田慈久	分析化学	71	9	461-469	2022
17	Recovery Process from the Reversed Magnetization Simulated with a Square Lattice	Tomoaki Senoo, Toshihide Sumi, Masafumi Horio, Arata Tsukamoto, Iwao Matsuda	e-J. Surf. Sci. Nanotechnology	20			2022
18	Measurement of X-ray Magnetic Linear Dichroism by Rotating Polarization Angle of Soft X-ray Generated by a Segmented Undulator	Yoshiki Kudo, Masafumi Horio, Yasuyuki Hirata, Takuo Ohkochi, Toyohiko Kinoshita, and Iwao Matsuda	e-J. Surf. Sci. Nanotechnology	20		124-127	2022
19	Electronic topological transition of 2D boron by the ion exchange reaction	Xiaoni Zhang, Yuki Tsujikawa, Ikuma Tateishi, Masahito Niibe, Tetsuya Wada, Masafumi Horio, Miwa Hikichi, Yasunobu	J. Phys. Chem. C	123		12802	2022
20	Electronic structures of polymorphic layers of borophane	Ikuma Tateishi, Xiaoni Zhang, Iwao Matsuda	Molecules	27		1808	2022
21	「真空紫外線(軟X線)が解き明かす磁性材料物性」	松田巖	まぐね	17	4		2022

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1	Direct Observation of the Topological Surface State in the Topological Superconductor 2M-WS ₂	Soohyun Cho, Soonsang Huh, Yuqiang Fang, Chenqiang Hua, Hua Bai, Zhicheng Jiang, Zhengtai Liu, Jishan Liu, Zhenhua Chen, Yuto Fukushima, Ayumi Harasawa, Kaishu Kawaguchi, Shik Shin, Takeshi Kondo, Yunhao Lu, Gang Mu, Fuqiang Huang, and Dawei Shen	Nano Letters	22		8827	2022
2	Coexistence of Strong and Weak Topological Orders in a Quasi-One-Dimensional Material	De-Yang Wang, Qi Jiang, Kenta Kuroda, Kaishu Kawaguchi, Ayumi Harasawa, Koichiro Yaji, Arthur Ernst, Hao-Ji Qian, Wen-Jing Liu, He-Ming Zha, Zhi-Cheng Jiang, Ni Ma, Hong-Ping Mei, Ang Li, Takeshi Kondo, Shan Qiao, and Mao Ye	Physical Review Letters	129		146401	2022
3	Enhanced Rashba Splitting of Au(111) Surface States with Hydrogen-Bonded Melamine-Based Organic Framework	Rena Moue, Yuta Kokubo, Kozo Mukai, Hirotaka Mizushima, Yuto Fukushima, Kaishu Kawaguchi, Takeshi Kondo, Ayumi Harasawa, Jun Yoshinobu, Kazuhiko Mase, Shik Shin, and Kaname Kanai	Adv. Mater. Interfaces,	9		2201102	2022
4	Anomalously large spin-dependent electron correlation in the nearly half-metallic ferromagnet CoS ₂	Hirokazu Fujiwara, Kensei Terashima, Junya Otsuki, Nayuta Takemori, Harald O. Jeschke, Takanori Wakita, Yuko Yano, Wataru Hosoda, Noriyuki Kataoka, Atsushi Teruya, Masashi Kakihana, Masato Hedo, Takao Nakama, Yoshichika Onuki, Koichiro Yaji, Ayumi Harasawa, Kenta Kuroda, Shik Shin, Koji Horiba, Hiroshi Kumigashira, Yuji Muraoka, and Takayoshi Yokoya	Physical Review B	106		85114	2022
5	Fluctuating spin-orbital texture of Rashba-split surface states in real and reciprocal space	Takuto Nakamura, Yoshiyuki Ohtsubo, Ayumi Harasawa, Koichiro Yaji, Shik Shin, Fumio Komori, and Shin-ichi Kimura	Physical Review B	105		235141	2022
6	Visualization of optical polarization transfer to photoelectron spin vector emitted from a spin-orbit coupled surface state	Kenta Kuroda, Koichiro Yaji, Ryo Noguchi, Ayumi Harasawa, Shik Shin, Takeshi Kondo, and Fumio Komori	Physical Review B	105		L121106	2022
7	Selective observation of surface and bulk bands in polar WTe ₂ by laser-based spin- and angle-resolved photoemission spectroscopy	Yuxuan Wan, Lihai Wang, Kenta Kuroda, Peng Zhang, Keisuke Koshiishi, Masahiro Suzuki, Jaewook Kim, Ryo Noguchi, Cédric Bareille, Koichiro Yaji, Ayumi Harasawa, Shik Shin, Sang-Wook Cheong, Atsushi Fujimori, and Takeshi Kondo	Physical Review B	105		85421	2022