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No.	Title	Authors	Journal	Vol	Page	Year
1	Operando measurement of single crystalline Li ₄ Ti ₅ O ₁₂ with octahedral-like morphology by microscopic X-ray photoelectron spectroscopy	Keishi Akada, Takaaki Sudayama, Daisuke Asakura, Hirokazu Kitaura, Naoka Nagamura, Koji Horiba, Masaharu Oshima, Eiji Hosono, and Yoshihisa Harada	J. Electron Spectrosc. Relat. Phenom.	233	64-68	2019
2	Operando measurement of single crystalline Li ₄ Ti ₅ O ₁₂ with octahedral-like morphology by microscopic X-ray photoelectron spectroscopy	Keishi Akada, Takaaki Sudayama, Daisuke Asakura, Hirokazu Kitaura, Naoka Nagamura, Koji Horiba, Masaharu Oshima, Eiji Hosono, and Yoshihisa Harada	J. Electron Spectrosc. Relat. Phenom.	233	64-68	2019
3	Semimetallicity of free-standing hydrogenated monolayer boron from MgB ₂	I. Tateishi, N. T. Cuong, C. A. S. Moura, M. Cameau, R. Ishibiki, A. Fujino, S. Okada, A. Yamamoto, M. Araki, S. Ito, S. Yamamoto, M. Niibe, T. Tokushima, D. E. Weibel, T. Kondo, M. Ogata, and I. Matsuda	Phys. Rev. Materials	3	024004 (1-8)	2019
4	Mass transport in the PdCu phase structures during hydrogen adsorption and absorption studied by XPS under hydrogen atmosphere	Jiayi Tang, Susumu Yamamoto, Takanori Koitaya, Akitaka Yoshigoe, Takuma Tokunaga, Kozo Mukai, Iwao Matsuda, Jun Yoshinobu	Appl. Surf. Sci.	480	419-426	2019
5	Enhanced Photoresponsivity of Fullerene in the Presence of Phthalocyanine: A Time-Resolved X-ray Photoelectron Spectroscopy Study of Phthalocyanine/C ₆₀ /TiO ₂ (110)	Kenichi Ozawa, Susumu Yamamoto, Marie D'angelo, Yuto Natsui, Naoya Terashima, Kazuhiko Ma, and Iwao Matsuda	J. Phys. Chem. C	123	4388-4395	2019
6	Hydrogen adsorption and absorption on a Pd-Ag alloy surface studied using in-situ X-ray photoelectron spectroscopy under ultrahigh vacuum and ambient pressure	J. Tang, S. Yamamoto, T. Koitaya, Y. Yoshikura, K. Mukai, S. Yoshimoto, I. Matsuda, J. Yoshinobu	Appl. Surf. Sci.	463	1161-1167	2019
7	Site-sensitive X-ray photoelectron spectroscopy of Fe ₃ O ₄ by photoelectron diffraction	Yusuke Hashimoto Munetaka Taguchi Shun Fukami Hiroki Momono Tomohiro Matsushita Hiroyuki Matsuda Fumihiko Matsui Hiroshi Daimon	Surface and Interface Analysis	51	115-119	2019
8	Operation Mechanism of GaN-based Transistors Elucidated by Element-Specific X-ray Nanospectroscopy	Keiichi Omika, Yasunori Tateno, Tsuyoshi Kouchi, Tsutomu Komatani, Seiji Yaegashi, Keiichi Yui, Ken Nakata, Naoka Nagamura, Masato Kotsugi, Koji Horiba, Masaharu Oshima, Maki Suemitsu & Hirokazu Fukidome	Scientific Reports	8	13268	2018
9	Monatomic Two-Dimensional Layers: Modern Experimental Approaches for Structure, Properties, and Industrial Use (Micro and Nano Technologies)	Iwao Matsuda	Elsevier		222 pages	2018
10	Femtosecond resonant magneto-optical Kerr effect measurement on an ultrathin magnetic film in a soft X-ray free electron laser	Sh. Yamamoto, Y. Kubota, K. Yamamoto, Y. Takahashi, K. Maruyama, Y. Suzuki, R. Hobara, M. Fujisawa, D. Oshima, S. Owada, T. Togashi, K. Tono, M. Yabashi, Y. Hirata, S. Yamamoto, M. Kotsugi, H. Wadati, T. Kato, S. Iwata, S. Shin, I. Matsuda 1. Sh. Yamamoto, Y. Kubota, K. Yamamoto, Y. Takahashi, K. Maruyama, Y. Suzuki, R. Hobara, M. Fujisawa, D. Oshima, S. Owada, T. Togashi, K. Tono, M. Yabashi, Y. Hirata, S. Yamamoto, M. Kotsugi, H. Wadati, T. Kato, S. Iwata, S. Shin, I. Matsuda	JJAP	57	09TD02	2018
11	Interfacial carrier dynamics of graphene on SiC, traced by the full-range time-resolved core-level photoemission spectroscopy	T. Someya, H. Fukidome, N. Endo, K. Takahashi, S. Yamamoto, I. Matsuda	Appl. Phys. Lett.	113		2018
12	Probing the Valence Electronic Structure of Low-Spin Ferrous and Ferric Complexes Using 2p3d Resonant Inelastic X-ray Scattering (RIXS).	A. W. Hahn, B. E. Van Kuiken, V. G. Chilkuri, N. Levin, E. Bill, T. Weyhermüller, A. Nicolaou, J. Miyawaki, Y. Harada and S. DeBeer	Inorg. Chem.	57	9515-9530	2018
13	Electronic States of Quinones for Organic Energy Devices: The Effect of Molecular Structure on Electrochemical Characteristics	Naoka Nagamura, Ryosuke Taniki, Yuta Kitada, Asuna Masuda, Hiroaki Kobayashi, Nobuto Oka, and Itaru Honma	ACS Applied Energy Materials	1	3084-3092	
14	Effect of amino group protonation on the carboxyl group in aqueous glycine observed by O 1s X-ray emission spectroscopy.	Y. Horikawa, T. Tokushima, O. Takahashi, Y. Harada, A. Hiraya and S. Shin	Phys. Chem. Chem. Phys	20	23214-23221	2018

15	Enhancement of CO ₂ adsorption on oxygen-functionalized epitaxial graphene surface under near-ambient conditions	S. Yamamoto, K. Takeuchi, Y. Hamamoto, R.-Y. Liu, Y. Shiozawa, T. Koitaya, T. Someya, K. Tashima, H. Fukidome, K. Mukai, S. Yoshimoto, M. Suemitsu, Y. Morikawa, J. Yoshinobu and I. Matsuda	Phys. Chem. Chem. Phys	20	19532-19538	2018
16	Electronic Structure of Ce-Doped and -Undoped Nd ₂ CuO ₄ Superconducting Thin Films Studied by Hard X-Ray Photoemission and Soft X-Ray Absorption Spectroscopy	M. Horio, Y. Krockenberger, K. Yamamoto, Y. Yokoyama, K. Takubo, Y. Hirata, S. Sakamoto, K. Koshiishi, A. Yasui, E. Ikenaga, S. Shin, H. Yamamoto, H. Wadati, and A. Fujimori	Phys. Rev. Lett.	120	257001 (1-6)	2018
17	Electronic States of Quinones for Organic Energy Devices: The Effect of Molecular Structure on Electrochemical Characteristics	Naoka Nagamura, Ryosuke Tanik, Yuta Kitad, Asuna Masuda, Hiroaki Kobayash, Nobuto Oka, and Itaru Honma	ACS Appl. Energy Mater	1	3084-3092	2018
18	Photoelectron Nano-spectroscopy of Reactive Ion Etching-Induced Damages to the Trench Sidewalls and Bottoms of 4H-SiC Trench-MOSFETs	Masaharu Oshima, Daisuke Mori, Aki Takigawa, Akihiko Otsuki, Naoka Nagamura, Shun Konno, Yoshinobu Takahashi, Masato Kotsugi, Hiroshi Nohira	e-Journal of Surface Science and Nanotechnology	16	257-261	2018
19	Element Selectivity in Second-Harmonic Generation of GaFeO ₃ by a Soft-X-Ray Free-Electron Laser	Sh. Yamamoto, T. Omi, H. Akai, Y. Kubota, Y. Takahashi, Y. Suzuki, Y. Hirata, K. Yamamoto, R. Yukawa, K. Horiba, H. Yumoto, T. Koyama, H. Ohashi, S. Owada, K. Tono, M. Yabashi, E. Shigemasa, S. Yamamoto, M. Kosugi, H. Wadati, H. Kumigashira, T. Arima, S. Shin, I. Matsuda	Phys. Rev. Lett.	120	223902 (1-5)	2018
20	Electronic Spectra of Iron-Sulfur Complexes Measured by 2p3d RIXS Spectroscopy	Benjamin E. Van Kuiken, Anselm W. Hahn, Brahamjot Nayyar, Christine E. Schiewer, Sonny C. Lee, Franc Meyer, Thomas Weyhermüller, Alessandro Nicolaou, Yi-Tao Cui, Jun Miyawaki, Yoshihisa Harada, and Serena DeBeer	Inorg. Chem.	57	7355-7361	2018
21	Tensile-Strain Dependent Spin States in Epitaxial LaCoO ₃ Thin Films	Y. Yokoyama, Y. Yamasaki, M. Taguchi, Y. Hirata, K. Takubo, J. Miyawaki, Y. Harada, D. Asakura, J. Fujioka, M. Nakamura, H. Daimon, M. Kawasaki, Y. Tokura and H. Wadati	Phys. Rev. Lett.	120	206402 (1-5)	2018
22	Alkali-metal induced band structure deformation investigated by angle-resolved photoemission spectroscopy and first-principles calculations	S. Ito, B. Feng, M. Arita, T. Someya, W.-C. Chen, A. Takayama, T. Iimori, H. Namatame, M. Taniguchi, C.-M. Cheng, S.-J. Tang, F. Komori, and I. Matsuda	Phys. Rev. B	97	155423 (1-8)	2018
23	Highly Reversible Oxygen-Redox Chemistry at 4.1 V in Na _{4/7-x} [□ _{1/7} Mn _{6/7}]O ₂ (□: Mn Vacancy)	Benoit Mortemard de Boisse Shin-ichi Nishimura Eriko Watanabe Laura Lander Akihisa Tsuchimoto Jun Kikkawa Eiichi Kobayashi Daisuke Asakura Masashi Okubo Atsuo Yamada	Advanced Energy Materials	8	1800409	2018
24	Correlation between Photocatalytic Activity and Carrier Lifetime: Acetic Acid on Single-Crystal Surfaces of Anatase and Rutile TiO ₂	K. Ozawa, S. Yamamoto, R. Yukawa, R.-Y. Liu, N. Terashima, Y. Natsui, H. Kato, K. Mase, I. Matsuda	J. Phys. Chem C	122	9562-9569	2018
25	Time-Resolved Photoelectron Spectroscopy	Iwao Matsuda	Encyclopedia of Interfacial Chemistry: Surface Science and Electrochemistry		8 pages	2017
26	Direct observation of Cr ³⁺ 3d states in ruby: towards experimental mechanistic evidence of metal chemistry	Myrtille O.J.Y. Hunault, Yoshihisa Harada, Jun Miyawaki, Jian Wang, Andries Meijerink, Frank M.F de Groot, and Matti M. van Schooneveld	J. Phys. Chem. A	122	4399-4413	2018
27	Resonant Inelastic X-ray Scattering	Yoshihisa Harada	Sync. Rad. News	31	2	2018
28	Commensurate versus incommensurate charge ordering near the superconducting dome in Ir _{1-x} PtxTe ₂ revealed by resonant x-ray scattering	K. Takubo, K. Yamamoto, Y. Hirata, H. Wadati, T. Mizokawa, R. Sutarto, F. He, K. Ishii, Y. Yamasaki, H. Nakao, Y. Murakami, G. Matsuo, H. Ishii, M. Kobayashi, K. Kudo, and M. Nohara	Phys. Rev. B	97	205142	2018
29	Controlling the surface photovoltage on WSe ₂ by surface chemical modification	R.-Y. Liu, K. Ozawa, N. Terashima, Y. Natsui, B. Feng, S. Ito, W.-C. Chen, C.-M. Cheng, S. Yamamoto, H. Kato, T.-C. Chiang, I. Matsuda	Appl. Phys. Lett.	112	211603-1-5	2018
30	Resonant Inelastic X-Ray Scattering	Yoshihisa Harada	Compendium of Surface and Interface Analysis		531-537	2018
31	Time-Resolved Photoelectron Spectroscopy	Iwao Matsuda	Compendium of Surface and Interface Analysis		8 pages	2018

32	Thickness dependence and dimensionality effects of charge and magnetic orderings in La _{1/3} Sr _{2/3} FeO ₃ thin films	K. Yamamoto, Y. Hirata, M. Horio, Y. Yokoyama, K. Takubo, M. Minohara, H. Kumigashira, Y. Yamasaki, H. Nakao, Y. Murakami, A. Fujimori, H. Wadati	Phys. Rev. B	97	075134 (1-6)	2017
33	Single-Layer Dual Germanene Phases on Ag (111)	C.H.Lin, A.Huang, W.W.Pai, W.C.Chen, T.R.Chang, R.Yukawa, C.M.Cheng, C.Y.Mou, I.Matsuda, T.C.Chiang, H.T.Jeng, S.J.Tang	Phys. Rev. Materials	2	024003 (1-8)	2018
34	Peculiar bonding associated with atomic doping and hidden honeycombs in borophene	Chi-Cheng Lee, Baojie Feng, Marie D'angelo, Ryu Yukawa, Ro-Ya Liu, Takahiro Kondo, Hiroshi Kumigashira, Iwao Matsuda, and Taisuke Ozaki,	Phys. Rev. B	97	075430 (1-5)	2018
35	A table-top formation of bilayer quasi-free-standing epitaxial-graphene on SiC(0001) by microwave annealing in air	K.S.Kim, G.H.Park, H.Fukidome, T.Someya, T.Iimori, F.Komori, I.Matsuda, M.Suemitsu	Carbon	130	792-798	2018
36	Strong Hydrogen Bonds at the Interface between Proton-Donating and -Accepting Self-Assembled Monolayers on Au(111)	H.S.Kato, S.Yoshimoto, A.Ueda, S.Yamamoto, Y.Kanemitsu, M.Tachikawa, H.Mori, J.Yoshinobu, I.Matsuda	Langmuir	34	2189-2197	2018
37	Electronic Structure and Magnetic Properties of the Half-Metallic Ferrimagnet Mn ₂ VAl Probed by Soft X-ray Spectroscopies	K. Nagai, H. Fujiwara, H. Aratani, S. Fujioka, H. Yomosa, Y. Nakatani, T. Kiss, A. Sekiyama, F. Kuroda, H. Fujii, T. Oguchi, A. Tanaka, J. Miyawaki, Y. Harada, Y. Takeda, Y. Saitoh, S. Suga, and R. Y. Umetsu	Phys. Rev. B	97	35143	2018
38	Raman and fuorescence-like components in resonant inelastic x-ray scattering on LaAlO ₃ /SrTiO ₃ heterostructures	F. Pfaff, H. Fujiwara, G. Berner, A. Yamasaki, H. Niwa, A. Gloskovskii, W. Drube, O. Kirilmaz, A. Sekiyama, J. Miyawaki, Y. Harada, S. Suga, M. Sing, and R. Claessen	Phys. Rev. B	97	035110	2018

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1	Surface electronic states of Au-induced nanowires on Ge(001)	Koichiro Yaji, Ryu Yukawa, Sunghun Kim, Yoshiyuki Ohtsubo, Patrick Le Fèvre, François Bertran, Amina Taleb-Ibrahimi, Iwao Matsuda, Kan Nakatsuji, Shik Shin and Fumio Komori	J. Phys.: Condens. Matter	30	075001	2018
2	Optical spin control of photoexcited electrons using a polarization-controllable laser (in Japanese)	Koichiro Yaji, Kenta Kuroda, Fumio Komori, Shik Shin	Journal of Japan Laser Processing Society	25	39	2018
3	Observation of topological superconductivity on the surface of iron-based superconductor	Peng Zhang, Koichiro Yaji, Takahiro Hashimoto, Yuichi Ota, Takeshi Kondo, Kozo Okazaki, Zhijun Wang, Jinsheng Wen, G. D. Gu, Hong Ding, and Shik Shin	Science	360	182	2018
4	Optical spin control in photoexcitation process revealed by laser-based spin- and angle-resolved photoelectron spectroscopy (in Japanese)	Koichiro Yaji, Kenta Kuroda, Fumio Komori, Shik Shin	Japanese Journal of Optics	47	142	2018
5	Experimental Methods for Spin- and Angle-Resolved Photoemission Spectroscopy Combined with Polarization-Variable Laser (Video Journal)	Kenta Kuroda, Koichiro Yaji, Ayumi Harasawa, Ryo Noguchi, Takeshi Kondo, Fumio Komori, Shik Shin	J. Vis. Exp.	136	e57090	2018
6	Rashba spin splitting of L-gap surface states on Ag(111) and Cu(111)	Koichiro Yaji, Ayumi Harasawa, Kenta Kuroda, Ronghan Li, Binghai Yan, Fumio Komori, and Shik Shin	Phys. Rev. B	98	041404(R)	2018
7	Giant Rashba splitting of quasi-one-dimensional surface states on Bi/InAs(110)-(2×1)	Takuto Nakamura, Yoshiyuki Ohtsubo, Yuki Yamashita, Shin-ichiro Ideta, Kiyohisa Tanaka, Koichiro Yaji, Ayumi Harasawa, Shik Shin, Fumio Komori, Ryu Yukawa, Koji Horiba, Hiroshi Kumigashira, and Shin-ichi Kimura	Phys. Rev. B	98	075431	2018
8	Origins of Thermal Spin Depolarization in Half-Metallic Ferromagnet CrO ₂	Hirokazu Fujiwara, Kensei Terashima, Masanori Sunagawa, Yuko Yano, Takanobu Nagayama, Tetsushi Fukura, Fumiya Yoshii, Yuka Matsuura, Makoto Ogata, Takanori Wakita, Koichiro Yaji, Ayumi Harasawa, Kenta Kuroda, Shik Shin, Koji Horiba, Hiroshi Kumigashira, Yuji Muraoka, and Takayoshi Yokoya	Phys. Rev. Lett.	121	2572201	2018