

## ---Harima---

## Paper

No	Title	Authors	掲載誌	Vol.	Page	年
1	Three-dimensional atomic arrangement around active/inactive dopant sites in boron-doped diamond	Yukako Kato, Daichi Tsujikawa, Yusuke Hashimoto, Taisuke Yoshida, Shun Fukami, Hiroyuki Matsuda, Munetaka Taguchi, Tomohiro Matsushita, and Hiroshi Daimon	Appl. Phys. Express	11	061302	2017
2	Cobalt-to-vanadium charge transfer in polyoxometalate water oxidation catalysts revealed by 2p3d resonant inelastic x-ray scattering	B. Liu, E. N. Glass, R. Wang, Y. Cui, Y. Harada, D. -J. Huang, S. Schuppler, C. L. Hill and F.M. F. de Groot	Phys. Chem. Chem. Phys.	20	4554-4562	2017
3	「光が奏でる楽器」一般公開で好評だった展示の紹介	小瀬川友香、荒木実穂子、山添康介、山本航平、松田巖	表面と真空	61	103-104	2017
4	放射光X線回折を用いた遷移金属酸化物薄膜の電荷・スピンの整列状態の観測	和達大樹、山本航平	表面科学	38	602-607	2017
5	Dzyaloshinskii-Moriya interaction in $\alpha$ -Fe <sub>2</sub> O <sub>3</sub> measured by magnetic circular dichroism in resonant inelastic soft x-ray scattering	J.Miyawaki, S.Suga, H.Fujiwara, M.Urasaki, H.Ikeno, H.Niwa, H.Kiuchi, Y.Harada	Phys.Rev.B	96	214420	2017
6	Determination of the element-specific complex permittivity using a soft x-ray phase modulator	Y. Kubota, Y. Hirata, J. Miyawaki, S. Yamamoto, H. Akai, R. Hobara, Sh. Yamamoto, K. Yamamoto, T. Someya, K. Takubo, Y. Yokoyama, M. Araki, M. Taguchi, Y. Harada, H. Wadati, M. Tsunoda, R. Kinjo, A. Kagamihata, T. Seike, M. Takeuchi, T. Tanaka, S. Shin, and I. Matsuda	Phys.Rev.B	96	214417	2017
7	Probing the OH Stretch in Different Local Environments in Liquid Water.	Y.Harada, J.Miyawaki, H.Niwa, K.Yamazoe, L.G.M.Pettersson, A.Nilsson	J.Phys.Chem.Lett.	8	5487-5491	2017
8	L-edge resonant magneto-optical Kerr effect of a buried Fe nanofilm	Y.Kubota, M.Taguchi, H.Akai, Sh.Yamamoto, T.Someya, Y.Hirata, K.Takubo, M.Araki, M.Fujisawa, K.Yamamoto, Y.Yokoyama, S.Yamamoto, M.Tsunoda, H.Wadati, S.Shin, I.Matsuda	Phys.Rev.B	134432	134432	2017
9	Observation of momentum-dependent charge excitations in hole-doped cuprates using resonant inelastic x-ray scattering at the oxygen K edge	K.Ishii, T.Tohyama, S.Asano, K.Sati, M.Fujita, S.Wakimoto, K.Tsutsui, S/Sota, J.Miyawaki, H.Niwa, Y.Harada, J.Pellicciari, Y.Huang, T.Schmitt, Y.Yamamoto, J.Mizuki	Phys.Rev.B	96	11548	2017
10	In-Situ 2p3d Resonant Inelastic X-ray Scattering Tracking Cobalt Nanoparticle Reduction	B. Liu, M. van Schooneveld, Y. Cui, J. Miyawaki, Y. Harada, T. Eschemann, K. de Jong, M. Delgado-Jaime, F. de Groot	J.Phys.Chem.C	121	17450-17456	2017
11	Measurement of the Ligand Field Spectra of Ferrous and Ferric Iron Chlorides Using 2p3d RIXS	Anselm W. Hahn, Benjamin E. Van Kuiken, Mustafa al Samarai, Mihal Atanasov, Thomas Wehyermüller, Yitao Cui, Jun Miyawaki, Yoshihisa Hirada, Alessandro Nicolaou, and Serena DeBeer	Inorg. Chem.	56	8203-8211	2017
12	Measurement of the Resonant Magneto-Optical Kerr Effect Using a Free Electron Laser	Sh.Yamamoto, I.Matsuda	Applied Sciences	7	662	2017
13	Wetting induced oxidation of Pt-based nano catalysts revealed by in situ high energy resolution X-ray absorption spectroscopy	Yitao Cui, Yoshihisa Harada, Hideki Niwa, Tatsuya Hatanaka, Naoki Nakamura, Masaki Ando, Kenji Ishii, Daiju Matsumura, Hiroshi Oji, Hironori Ofuchi, Masaharu Oshima	Sci Rep.	7	1482	2017
14	Capturing ultrafast magnetic dynamics by time-resolved soft x-ray magnetic circular dichroism	K. Takubo, K. Yamamoto, Y. Hirata, Y. Yokoyama, Y. Kubota, Sh. Yamamoto, S. Yamamoto, I. Matsuda, S. Shin, T. Seki, K. Takanashi, and H. Wadati	Applied Physics Letters	110	162401	2017
15	時間分解X線回折・分光で見た遷移金属化合物	和達大樹	固体物理	52	45-53	2017
16	Interface electronic structure at the topological insulator–ferrimagnetic insulator junction	Y Kubota, K Murata, J Miyawaki, K Ozawa, M C Onbasli, T Shirasawa, B Feng, Sh Yamamoto, R-Y Liu, S Yamamoto, S K Mahatha, P Sheverdyeva, P Moras, C A Ross, S Suga, Y Harada, K L Wang and I Matsuda	Journal of Physics: Condensed Matter	29	055002	2017
17	Polarization dependence of resonant magneto-optical Kerr effect measured by twotypes of figure-8 undulators	Y.Kubota, Sh.Yamamoto, T.Someya, Y.Hirata, K.Takubo, M.Araki, M.Fujisawa, K.Yamamoto, Y.Yokoyama, M.Taguchi, S.Yamamoto, M.Tsunoda, H.Wadati, A.Shin, I.Matsuda	Journal of Electron Spectroscopy and Related Phenomena	220	120	2017

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18	Time-resolved soft X-ray core-level photoemission spectroscopy to 880°C using pulsed laser and synchrotron radiation, and switched heating current	T. Abukawa, S. Yamamoto, R. Yukawa, S. Kanzaki, K. Mukojima, I. Matsuda	Surface Science	656	43-47	2017
19	Enhancement of the Hydrogen-Bonding Network of Water Confined in a Polyelectrolyte Brush	K Yamazoe, Y. Higaki, Y. Inutsuka, J. Miyawaki, Y. Cui, A. Takahara, and Y. Harada	Langmuir	33	3954-3959	2017
20	A compact permanent-magnet system for measuring magnetic circular dichroism in resonant inelastic soft X-ray scattering	Jun Miyawaki, Shigemasa Suga, Hidenori Fujiwara, Hideharu Niwa, Hisao Kiuchi and Yoshihisa Harada	Journal of Synchrotron Radiation	24	449-455	2017
21	X-ray spectroscopies studies of the 3d transition metal oxides and applications of photocatalysis	Yifan Ye, Mukes Kapilashrami, Cheng-Hao Chuang, Yi-sheng Liu, Per-Anders Glans, Jinghua Guo	MRS Communications	7	53-66	2017
22	Adsorption of CO <sub>2</sub> on Graphene: A Combined TPD, XPS, and vdW-DF Study	K. Takeuchi, S. Yamamoto, Y. Hamamoto, Y. Shiozawa, K. Tashima, H. Fukidome, T. Koitaya, K. Mukai, S. Yoshimoto, M. Suemitsu, Y. Morikawa, J. Yoshinobu, I. Matsuda	J. Phys. Chem. C	121	2807-2814	2017

## Book

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1	Time-Resolved Photoelectron Spectroscopy	Iwao Matsuda	Surface Science and Electrochemistry		8 pages	2017

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1	Direct mapping of spin and orbital entangled wave functions under interband spin-orbit coupling of giant Rashba spin-split surface states	Ryo Noguchi, Kenta Kuroda, K. Yaji, K. Kobayashi, M. Sakano, A. Harasawa, Takeshi Kondo, F. Komori, and S. Shin	Phys. Rev. B	95	041111®	2017
2	Topologically Entangled Rashba-Split Shockley States on the Surface of Grey Arsenic	Peng Zhang, J.-Z. Ma, Y. Ishida, L.-X. Zhao, Q.-N. Xu, B.-Q. Lv, K. Yaji, G.-F. Chen, H.-M. Weng, X. Dai, Z. Fang, X.-Q. Chen, L. Fu, T. Qian, H. Ding, and S. Shin	Phys. Rev. Lett.	118	46802	2017
3	Spin-dependent quantum interference in photoemission process from spin-orbit coupled states	Koichiro Yaji, Kenta Kuroda, Sogen Toyohisa, Ayumi Harasawa, Yukiaki Ishida, Shuntaro Watanabe, Chuangtian Chen, Katsuyoshi Kobayashi, Fumio Komori &	Nature Communications	8	14588	2017
4	Observation of spin-polarized bands and domain-dependent Fermi arcs in polar Weyl semimetal	M. Sakano, M. S. Bahrany, H. Tsuji, I. Araya, K. Ikeura, H. Sakai, S. Ishiwata, K. Yaji, K. Kuroda, A. Harasawa, S. Shin, and K. Ishizaka	Phys. Rev. B	95	121101®	2017
5	Experimental evidence of hourglass fermion in the candidate nonsymmorphic topological insulator KHgSb	Junzhang Ma, Changjiang Yi, Baiqing Lv, Zhijun Wang, Simin Nie, Le Wang, Lingyuan Kong, Yaobo Huang, Pierre Richard, Peng Zhang, Koichiro Yaji, Kenta Kuroda, Shik Shin, Hongming Weng, Bogdan Andrei Bernevig, Youguo Shi, Tian Qian, Hong Ding	Science Advances	3	e1602415	2017
6	Modulation of electron-phonon coupling in periodically-nanorippled graphene on a macrofacet of 6H-SiC	Koichiro Ienaga, Takushi Iimori, Koichiro Yaji, Toshio Miyamachi, Shuhei Nakashima, Yukio Takahashi, Kohei Fukuma, Shingo Hayashi, Takashi Kajiwara, Anton Visikovskiy, Kazuhiko Mase, Kan Nakatsuji, Satoru Tanaka, and Fumio Komori	Nano Letters	17	3527	2017
7	固体表面電子におけるスピン軌道エンタングルメントと光スピン制御	矢治光一郎、黒田健太、小森文夫、辛埴	固体物理	52	559	2017
8	Spin-polarized quasi 1D state with finite bandgap on the Bi/InSb(001) surface	J. Kishi, Y. Ohtsubo, K. Yaji, A. Harasawa, F. Komori, S. Shin, J. E. Rault, P. Le Fèvre, F. Bertran, A. Taleb-Ibrahimi, M. Nurmatamat, H. Yamane, S. Ideta, K. Tanaka, and S. Kimura	Phys. Rev. Mat.	1	064602	2017