

Japanese publications, where KIT/IMT X-ray lenses have been used in the experiments

listed by Dr. A. Last, 20.10.2017

Publications since 2007: 227

Total number of pages: 1482

Line numbre	Synchrotron source	Beamline	User	Autors	Title	published in	Number of pages	Published
1	SPring-8	BL13XU	Sakata	Y. Ehara, S. Yasui, T. Oikawa, T. Shirahashi, T. Shimizu, H. Tanaka, N. Kanenko, R. Maran, T. Yamada, Y. Imai, O. Sakata, N. Valonoor and H. Funakubo	In-situ observation of ultrafast 90° domain switching under application of an electric field in (100)/(001)-oriented tetragonal epitaxial Pb(Zr _{0.4} Ti _{0.6})O ₃ thin films	Sci. Rep. 7, 9641	7	2017
2	SPring-8	BL13XU	Sakata	S. Nakashima, O. Sakata, H. Funakubo, T. Shimizu, D. Ichinose, K. Takayama, Y. Imai, H. Fujisawa, and M. Shimizu	Electric-field-induced Lattice Distortion in Epitaxial BiFeO ₃ Thin Films as Determined by In Situ Time-resolved X-ray Diffraction	Appl. Phys. Lett, 111, 082907	5	2017
12	SPring-8	BL15XU	Sakata	T. Yamada, D. Ito, T. Sluka, O. Sakata, H. Tanaka, H. Funakubo, T. Namazu, N. Wakiya, M. Yoshino, T. Nagasaki, and S. Nava	Charge screening strategy for domain pattern control in nano-scale ferroelectric systems	Sci. Rep. 7, 5236	9	2017
17	SPring-8	BL43LXU	Baron	Marie-Christine Zdora, Pierre Thibault, Tunhe Zhou, Frieder J. Koch, Jenny Romell, Simone Sala, Arndt Last, Christoph Rau and Irene Zanette	X-ray Phase-Contrast Imaging and Metrology through Uni ed Modulated Pattern Analysis	Phys. Rev. Lett. 118, 203903	6	2017
18	SPring-8	BL41XU	Hasegawa	日本結晶学会	Low-dose X-ray structure analysis of cytochrome oxidase utilizing high-energy X-rays	International Union of Crystallography		2017
20	SPring-8	BL24XU	Kuwamoto	Kuwamoto et al	BL24XU Poster at SPring-8 Industrial Use annual report meeting	Industrial Use annual report meeting		2017
21	SPring-8	BL24XU	Kuwamoto	Kuwamoto et al	BL24XU Poster at SPring-8 Industrial Use annual report meeting	Industrial Use annual report meeting		2017
22	SPring-8	BL10XU	Ohishi, Hirao	Junichi Yamaura, Keiki Takeda, Yoichi Ikeda, Naohisa Hirao, Yasuo Ohishi, Tatsuo Kobayashi, and Zenji Hiroi	Successive Spatial Symmetry Breaking under High Pressure in the Spin-Orbit-Coupled Metal Cd ₂ Re ₂ O ₇	Physical Review B, 95 (2017) 020102 (R)	5	2017
23	SPring-8	BL10XU	Ohishi, Hirao	Yuu Tsuchiya, Shugo Ikeda, Xiao-Wei Zhang, Shunji Kishimoto, Takumi Kikegawa, Naohisa Hirao, Saori I. Kawaguchi, Yasuo Ohishi, and Hisao Kobayashi	Pressure-induced Phase Transition in K _x Fe _{2-y} S ₂	Journal of the Physical Society of Japan, 86 (2017) 033705	5	2017
24	SPring-8	BL10XU	Ohishi, Hirao	Kenji Ohta, Takashi Yagi, Kei Hirose, and Yasuo Ohishi	Thermal Conductivity of Ferropericlae in the Earth's Lower Mantle	Earth and Planetary Science Letters, 465 (2017) 29-37	9	2017
25	SPring-8	BL10XU	Ohishi, Hirao	Fang Hong, Binbin Yue, Naohisa Hirao, Zhenxian Liu, and Bin Chen	Significant Improvement in Mn ₂ O ₃ Transition Metal Oxide Electrical Conductivity via High Pressure	Scientific Reports, 7 (2017) 44078	7	2017
26	SPring-8	BL10XU	Ohishi, Hirao	Takayuki Yamamoto, Mitsuhiko Maesato, Naohisa Hirao, Saori I. Kawaguchi, Shogo Kawaguchi, Yasuo Ohishi, Yoshiki Kubota, Hirokazu Kobayashi, and Hiroshi Kitagawa	The Room-Temperature Superionic Conductivity of Silver Iodide Nanoparticles under Pressure	Journal of the American Chemical Society, 139 (2017) 1392-1395	3	2017

27	SPring-8	BL10XU	Ohishi, Hirao	Yoshiyuki Okuda, Kenji Ohta, Takashi Yagi, Ryosuke Sinmyo, Tatsuya Wakamatsu, Kei Hirose, and Yasuo Ohishi	The Effect of Iron and Aluminum Incorporation on Lattice Thermal Conductivity of Bridgmanite at the Earth's Lower Mantle	Earth and Planetary Science Letters, 474 (2017) 25-31	6	2017
28	SPring-8	BL10XU	Ohishi, Hirao	Masayuki Nishi, Yasuhiro Kuwayama, Jun Tsuchiya, and Taku Tsuchiya	The Pyrite-Type High-Pressure Form of FeOOH	Nature, 547 (2017) 205-208	4	2017
29	SPring-8	BL10XU	Ohishi, Hirao	Takahiro Matsuoka, Keiji Kuno, Kenji Ohta, Masafumi Sakata, Yuki Nakamoto, Naohisa Hirao, Yasuo Ohishi, Katsuya Shimizu, Tetsuji Kume, and Shigeo Sasaki	Lithium Polyhydrides Synthesized under High Pressure and High Temperature	Journal of Raman Spectroscopy	7	2017
30	SPring-8	BL10XU	Ohishi, Hirao	Hidegori Hiramatsu, Hitoshi Yusa, Ryo Igarashi, Yasuo Ohishi, Toshio Kamiya, and Hideo Hosono	An Exceptionally Narrow Band-Gap (~4 eV) Silica Predicted in the Cubic Perovskite Structure: BaSiO ₃	Inorganic Chemistry, 56 (2017) 10535-10542	7	2017
31	SPring-8	BL10XU	Ohishi, Hirao	Sho Suehiro, Kenji Ohta, Kei Hirose, Guillaume Morard, and Yasuo Ohishi	The Influence of Sulfur on the Electrical Resistivity of hcp Iron: Implications for the Core Conductivity of Mars and Earth	Geophysical Research Letters	6	2017
13	SPring-8	BL15XU	Sakata	D. Ito, T. Yamada, O. Sakata, J. Kuroishi, T. Namazu, H. Funakubo, M. Yoshino, and T. Nagasaki	Fabrication of Tetragonal Pb (Zr,Ti) O ₃ Nanorods by Focused Ion Beam and Characterization of the Domain Structure	IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control 63 (10), 1642	5	2016
14	SPring-8	BL13XU, BL15XU	Sakata	Yoshitaka Ehara, Shintaro Yasui, Takahiro Oikawa, Takahisa Shiraishi, Naoya Oshima, Tomoaki Yamada, Yasuhiko Imai, Osami Sakata, Hiroshi Funakubo	Large volume of irreversible non-180° domain switching by poling treatment in Pb(Zr, Ti)O ₃ films	APPLIED PHYSICS LETTERS. 108 [21]	5	2016
16	SPring-8	BL22XU	Ohwada	X線回折を利用したBaTiO ₃ 正方晶相のドメイン境界の研究	X-ray diffraction study of domain boundaries in the tetragonal BaTiO ₃	第26回日本MRS年次大会 / The 26th annual meeting of MRS-J		2016
19	SPring-8	BL41XU	Hasegawa	日本結晶学会	高エネルギーX線を利用した休止酸化型チトクロム酸化酵素の低損傷構造解析	CRSJ		2016
32	SPring-8	BL10XU	Ohishi, Hirao	Hitoshi Sumiya, Yuki Nakamoto, Masafumi Sakata, Kenji Ohta, and Katsuya Shimizu	Deformation Behavior of Nano-polycrystalline Diamond Subjected to High Stress Load	SPring-8/SACLA Research Report, 4 (2016) 32-35	4	2016
33	SPring-8	BL10XU	Ohishi, Hirao	Taku Fujii, Hiroaki Ohfuji, and Toru Inoue	Phase Relation of CaSO ₄ at High Pressure and Temperature up to 90 GPa and 2300 K	Physics and Chemistry of Minerals, 43 (2016) 353-361	9	2016
34	SPring-8	BL10XU	Ohishi, Hirao	Takeshi Sakai, Haruhiko Dekura, and Naohisa Hirao	Experimental and Theoretical Thermal Equations of State of MgSiO ₃ Post-Perovskite at Multi-Megabar Pressures	Scientific Reports, 6 (2016) 22652	8	2016
35	SPring-8	BL10XU	Ohishi, Hirao	Chie Kato, Kei Hirose, Ryuichi Nomura, Maxim D. Ballmer, Akira Miyake, and Yasuo Ohishi	Melting in the FeO-SiO ₂ System to Deep Lower-Mantle Pressures: Implications for Subducted Banded Iron Formations	Earth and Planetary Science Letters, 440 (2016) 56-61	6	2016
36	SPring-8	BL10XU	Ohishi, Hirao	Shoh Tagawa, Kenji Ohta, Kei Hirose, Chie Kato, and Yasuo Ohishi	Compression of Fe-Si-H Alloys to Core Pressures	Geophysical Research Letters, 43 (2016) 3686-3692	7	2016

37	SPring-8	BL10XU	Ohishi, Hirao	Kenji Ohta, Yasuhiro Kuwayama, Kei Hirose, Katsuya Shimizu, and Yasuo Ohishi	Experimental Determination of the Electrical Resistivity of Iron at Earth's Core Condition	Nature, 534 (2016) 95-98	4	2016
38	SPring-8	BL10XU	Ohishi, Hirao	Hiroshi Fukui, Takeo Maekawa, Toshiyuki Sugimoto, Yuichi Akahama, Naohisa Hirao, and Yasuo Ohishi	Phase Stability of NeHe ₂ under High-Pressure and High-Temperature Conditions	SPring-8/SACLA Research Report, 4 (2016) 204-208	5	2016
39	SPring-8	BL10XU	Ohishi, Hirao	Yuichi Akahama, Daisuke Ishihara, Hironori Yamashita, Hiroshi Fujihisa, Naohisa Hirao, and Yasuo Ohishi	Phase Stability and Magnetic Behavior of Hexagonal Phase of N ₂ -O ₂ System with Kagome Lattice under High Pressure and Low Temperature	Physical Review B, 94 (2016) 064104	6	2016
40	SPring-8	BL10XU	Ohishi, Hirao	Minseob Kim, Ranga Dias, Yasuo Ohishi, Takehiro Matsuoka, Jing-Yin Chen, and Choong-Shik Yoo	Pressure-Induced Transformation of Dense Carbonyl Sulfide to Singly Bonded Amorphous Metallic Solid	Scientific Reports, 6 (2016) 31594	8	2016
41	SPring-8	BL10XU	Ohishi, Hirao	Haruka Ozawa, Kei Hirose, Kyoko Yonemitsu, and Yasuo Ohishi	High-Pressure Melting Experiments on Fe-Si Alloys and Implications for Silicon as a Light Element in the Core	Earth and Planetary Science Letters, 456 (2016) 47-54	8	2016
42	SPring-8	BL10XU	Ohishi, Hirao	Fang Hong, Binbin Yue, Naohisa Hirao, Guohao Ren, Bin Chen, and Ho kwang Mao	Pressure-Induced Isostructural Transition in a Distorted Perovskite via Octahedron Reconfiguration	Applied Physics Letters, 109 (2016) 241904	4	2016
43	SPring-8	BL10XU	Ohishi, Hirao	Shigeaki Ono, and Takumi Kikegawa	Titanium Boride Equation of State Determined by in-situ X-ray Diffraction	Heliyon, 2 (2016) e00220		2016
44	SPring-8	BL10XU	Ohishi, Hirao	Ross T. Howie, Eugene Gregoryanz, Philip Dalladay-Simpson, Mungo Frost, Jack Binns, and Robin Turnbull	Formation of Xenon-Nitrogen Compounds at High Pressure	Scientific Reports, 6 (2016) 34896	6	2016
15	SPring-8	BL13XU, BL15XU	Sakata	Tomoaki Yamada, Daisuke Ito, Osami Sakata, Junki Kuroishi, Takahiro Namazu, Yasuhiko Imai, Takahisa Shiraishi, Takao Shimizu, Hiroshi Funakubo, Masahito Yoshino, Takanori Nagasaki	Domain structure of tetragonal Pb(Zr,Ti)O ₃ nanorods and its size dependence	JAPANESE JOURNAL OF APPLIED PHYSICS. 54 [10S]	4	2015
45	SPring-8	BL10XU	Ohishi, Hirao	Shigeaki Ono, Kenji Mibe, Naohisa Hirao, and Yasuo Ohishi	<i>In situ</i> Raman Spectroscopy of Cubic Boron Nitride to 90 GPa and 800 K	Journal of Physics and Chemistry of Solids, 76 (2015) 120-124	5	2015
46	SPring-8	BL10XU	Ohishi, Hirao	Hisako Hirai, Hirokazu Kadobayashi, Naohisa Hirao, Yasuo Ohishi, Michika Ohtake, Yoshitaka Tamamoto, and Satoshi Nakano	Time-Resolved X-ray Diffraction and Raman Studies of the Phase Transition Mechanisms of Methane Hydrate	The Journal of Chemical Physics, 142 (2015) 024707	6	2015
47	SPring-8	BL10XU	Ohishi, Hirao	Shigeaki Ono	Relationship between Structural Variation and Spin Transition of Iron under High Pressures and High Temperatures	Solid State Communications, 203 (2015) 1-4	5	2015
48	SPring-8	BL10XU	Ohishi, Hirao	Keiji Kuno, Takahiro Matsuoka, Takaya Nakagawa, Naohisa Hirao, Yasuo Ohishi, Katsuya Shimizu, Kazushi Takahama, Kenji Ohta, Masafumi Sakata, Yuki Nakamoto, Tetsuji Kume, and Shigeo Sasaki	Heating of Li in Hydrogen: Possible Synthesis of LiH _x	High Pressure Research, 133 (2015) 16-21	6	2015
49	SPring-8	BL10XU	Ohishi, Hirao	Daisuke Hamane	High Pressure and Temperature Phase Transition of Titanate	SPring-8/SACLA Research Report, 3 (2015) 6-9	4	2015

51	SPring-8	BL10XU	Ohishi, Hirao	Yuki Noguchi, Akinori Saeki, Takenori Fujiwara, Sho Yamanaka, Masataka Kumano, Tsuneaki Sakurai, Naoto Matsuyama, Motohiro Nakano, Naohisa Hirao, Yasuo Ohishi, and Shuhei Seki	Pressure Modulation of Backbone Conformation and Intermolecular Distance of Conjugated Polymers Toward Understanding the Dynamism of π -Figuration of their Conjugated System	The Journal of Physical Chemistry B, 119 (2015) 7219-7230	22	2015
52	SPring-8	BL10XU	Ohishi, Hirao	Daisuke Nishio-Hamane, Haruhiko Dekura, Yusuke Seto, and Takehiko Yagi	Theoretical and Experimental Evidence for the Post-Cotunnite Phase Transition in Zirconia at High Pressure	Physics and Chemistry of Minerals, 42 (2015) 385-392	8	2015
53	SPring-8	BL10XU	Ohishi, Hirao	Ruth Zadik, Yasuhiro Takabayashi, Gyöngyi Klupp, Ross Colman, Alexey Ganin, Anton Potocnik, Peter Jeglic, Denis Arcon, Péter Matus, Katalin Kamarás, Yuichi Kasahara, Yoshihiro Iwasa, Andrew N. Fitch, Yasuo Ohishi, Gaston Garbarino, Kenichi Kato, Matthew J. Rosseinsky, and Kosmas Prassides	Optimized Unconventional Superconductivity in a Molecular Jahn-Teller Metal	Science Advances, 1 (2015) e1500059		2015
54	SPring-8	BL10XU	Ohishi, Hirao	Shigehiko Tateno, Yasuhiro Kuwayama, Kei Hirose, and Yasuo Ohishi	The Structure of Fe-Si Alloy in Earth's Inner Core	Earth and Planetary Science Letters, 418 (2015) 11-19	8	2015
55	SPring-8	BL10XU	Ohishi, Hirao	Takeshi Sakai, Takehiko Yagi, Hiroaki Ohfuji, Tetsuo Irifune, Yasuo Ohishi, Naohisa Hirao, Yuya Suzuki, Yasushi Kuroda, Takayuki Asakawa, and Takashi Kanemura	High-Pressure Generation using Double Stage Micro-Paired Diamond Anvils Shaped by Focused Ion Beam	Review of Scientific Instruments, 86 (2015) 033905	6	2015
56	SPring-8	BL10XU	Ohishi, Hirao	Sayuri Minobe, Yoichi Nakajima, Kei Hirose, and Yasuo Ohishi	Stability and Compressibility of a New Iron-Nitride β -Fe ₇ N ₃ to Core Pressures	Geophysical Research Letters, 42 (2015) 5206-5211	6	2015
57	SPring-8	BL10XU	Ohishi, Hirao	Sota Takagi, Atsushi Kyono, Saki Mitani, Neo Sugano, Yuki Nakamoto, and Naohisa Hirao	X-ray Diffraction Study of the Icosahedral AlCuFe Quasicrystal at Megabar Pressures	Materials Letters, 161 (2015) 13-16	4	2015
58	SPring-8	BL10XU	Ohishi, Hirao	Koichiro Umemoto, Emiko Sugimura, Stefano Gironcoli, Yoichi Nakajima, Kei Hirose, Yasuo Ohishi, and Renata M. Wentzcovitch	Nature of the Volume Isotope Effect in Ice	Physical Review Letters, 115 (2015) 173005		2015
59	SPring-8	BL10XU	Ohishi, Hirao	Masaki Akaogi, Kouhei Abe, Hitoshi Yusa, Hiroshi Kojitani, Daisuke Mori, and Yoshiyuki Inaguma	High-Pressure Phase Behaviors of ZnTiO ₃ : Ilmenite-Perovskite Transition, Decomposition of Perovskite into Constituent Oxides, and Perovskite-Lithium Niobate Transition	Physics and Chemistry of Minerals, 42 (2015) 421-429	9	2015
60	SPring-8	BL10XU	Ohishi, Hirao	Kenji Ohta, Kota Ichimaru, Mari Einaga, Sho Kawaguchi, Katsuya Shimizu, Takahiro Matsuoka, Naohisa Hirao, and Yasuo Ohishi	Phase Boundary of Hot Dense Fluid Hydrogen	Scientific Reports, 5 (2015) 16560	1	2015
61	SPring-8	BL10XU	Ohishi, Hirao	Serge Desgreniers, John S. Tse, Takahiro Matsuoka, Yasuo Ohishi, and Justin J. Tse	Mixing Unmixables: Unexpected Formation of Li-Cs Alloys at Low Pressure	Science Advances, 1 (2015) e1500669		2015
62	SPring-8	BL10XU	Ohishi, Hirao	Shohei Kaneko, Masaaki Miyahara, Eiji Ohtani, Tomoko Arai, Naohisa Hirao, and Kazuhisa Sato	Discovery of Stishovite in Apollo 15299 Sample	American Mineralogist, 100 (2015) 1308-1311	4	2015
3	SPring-8	BL13XU	Sakata	T. Fujisawa, Y. Ehara, S. Yasui, T. Kamo, T. Yamada, O. Sakata, H. Funakubo	Direct observation of intrinsic piezoelectricity of Pb(Zr,Ti)O ₃ by time-resolved XRD measurement using single-crystalline films	Appl. Phys. Lett. 105, 012905	5	2014

50	SPring-8	BL10XU	Ohishi, Hirao	Naohisa Hirao, and Yasuo Ohishi	Present Status of BL10XU (2014)	SPring-8/SACLA Research Report, 3 (2015) 137-144	8	2014
63	SPring-8	BL10XU	Ohishi, Hirao	Joanne W. L. Wong, Aaron Mailman, Kiristina Lekin, Stephan M. Winter, Wenjun Yong, Jianbao Zhao, Subrahmanyam V. Garimella, John S. Tse, Richard Secco, Serge Desgreniers, Yasuo Ohishi, Ferenc Borondics, and Richard T. Oakley	Pressure Induced Phase Transitions and Metallization of a Neutral Radical Conductor	Journal of the American Chemical Society, 136 (2014) 1070-1081	12	2014
64	SPring-8	BL10XU	Ohishi, Hirao	Megumi Matsumoto, Kazushige Tomeoka, Yusuke Seto, Akira Miyake, and Mitsuhiro Sugita	Nepheline and Sodalite in the Matrix of the Ningqiang Carbonaceous Chondrite: Implications for Formation through Parent-Body Processes	Geochimica et Cosmochimica Acta, 126 (2014) 441-454	14	2014
65	SPring-8	BL10XU	Ohishi, Hirao	Kei Hirose	Deep Earth Mineralogy Revealed by Ultrahigh-Pressure Experiments	Mineralogical Magazine, 78 (2014) 437-446	10	2014
66	SPring-8	BL10XU	Ohishi, Hirao	Yuichi Akahama, Takeo Maekawa, Toshiyuki Sugimoto, Hiroshi Fujihisa, Naohisa Hirao, and Yasuo Ohishi	High-Pressure Phase Diagram of O ₂ and N ₂ Binary System: Formation of Kagome-Lattice of O ₂	Journal of Physics: Conference Series, 500 (2014) 182001	6	2014
67	SPring-8	BL10XU	Ohishi, Hirao	Kenji Ohta, Kiyoshi Fujino, Yasuhiro Kuwayama, Tadashi Kondo, Katsuya Shimizu, and Yasuo Ohishi	Highly Conductive Iron-Rich (Mg,Fe)O Magnesiowüstite and its Stability in the Earth's Lower Mantle	Solid Earth, 119 (2014) 4656-4665	10	2014
68	SPring-8	BL10XU	Ohishi, Hirao	Yukihiro Kawamura, Takuma Kawaai, Tomoki Nakayama, Junichi Hayashi, Keiki Takeda, Chihiro Sekine, Takashi Nishioka, and Yasuo Ohishi	Synchrotron X-ray Diffraction Study of CeRu ₂ Al ₁₀ under High Pressure and Low Temperature	JPS Conference Proceedings, 3 (2014) 011029	5	2014
69	SPring-8	BL10XU	Ohishi, Hirao	Takahiro Matsuoka, Masafumi Sakata, Yuki Nakamoto, Kazushi Takahama, Kota Ichimaru, Kenta Mukai, Kenji Ohta, Naohisa Hirao, Yasuo Ohishi, and Katsuya Shimizu	Pressure-Induced Reentrant Metallic Phase in Lithium	Physical Review B, 89 (2014) 144103	5	2014
70	SPring-8	BL10XU	Ohishi, Hirao	Hirokazu Kadobayashi, Hisako Hirai, Takahiro Matsuoka, Yasuo Ohishi, and Y. Yamamoto	A Possible Existence of Phase Change of Deuterated Ice VII at about 11 GPa by X-ray and Raman Studies	Journal of Physics: Conference Series, 500 (2014) 182017	5	2014
71	SPring-8	BL10XU	Ohishi, Hirao	Hisako Hirai, Takehiko Tanaka, Takahiro Matsuoka, Yasuo Ohishi, Takehiko Yagi, M. Ohtake, and Y. Yamamoto	Phase Changes Induced by Guest Orientational Ordering of Filled Ice I _h , Methane Hydrate under High Pressure and Low Temperature	Journal of Physics: Conference Series, 500 (2014) 192006	6	2014
72	SPring-8	BL10XU	Ohishi, Hirao	Hisako Hirai, Hirokazu Kadobayashi, Takahiro Matsuoka, Yasuo Ohishi, and Yoshitaka Yamamoto	High Pressure X-ray Diffraction and Raman Spectroscopic Studies of the Phase Change of D ₂ O Ice VII at Approximately 11 GPa	High Pressure Research, 34 (2014) 289-296	8	2014
73	SPring-8	BL10XU	Ohishi, Hirao	Masaaki Miyahara, Eiji Ohtani, Akira Yamaguchi, Shin Ozawa, Takeshi Sakai, and Naohisa Hirao	Discovery of Coesite and Stishovite in Euclite	Proceedings of the National Academy of Sciences of the United States of America, 111 (2014) 10939-10942	4	2014
74	SPring-8	BL10XU	Ohishi, Hirao	Shigeaki Ono, Kenji Mibe, and Yasuo Ohishi	Raman Spectra of Culet Face of Diamond Anvils and Application as Optical Pressure Sensor to High Temperatures	Journal of Applied Physics, 116 (2014) 053517	5	2014

75	SPring-8	BL10XU	Ohishi, Hirao	Shigehiko Tateno, Kei Hirose, and Yasuo Ohishi	Melting Experiments on Peridotite to Lowermost Mantle Conditions	Journal of Geophysical Research, 119 (2014) 4684-4694	11	2014
76	SPring-8	BL10XU	Ohishi, Hirao	Yuichi Akahama, Naohisa Hirao, Yasuo Ohishi, and Singh Anil	Equation of State of bcc-Mo by Static Volume Compression to 410GPa	Journal of Applied Physics, 116 (2014) 223504	5	2014
77	SPring-8	BL10XU	Ohishi, Hirao	Hisako Hirai, Takehiko Tanaka, Shingo Kagawa, Takahiro Matsuoka, Yasuo Ohishi, Naohisa Hirao, Takehiko Yagi, Michika Ohtake, and Yoshitaka Yamamoto	Phase Changes Induced by Guest Orientational Ordering on Methane and Hydrogen Hydrates under Low Temperatures and High Pressures	The Review of High Pressure Science and Technology, 24 (2014) 278-287	10	2014
78	SPring-8	BL10XU	Ohishi, Hirao	Seiji Kamada, Eiji Ohtani, Hidenori Terasaki, Takeshi Sakai, Suguru Takahashi, Naohisa Hirao, and Yasuo Ohishi	Equation of State of Fe ₃ S at Room Temperature up to 2 Megabars	Physics of the Earth and Planetary Interiors, 228 (2014) 106-113	8	2014
79	SPring-8	BL10XU	Ohishi, Hirao	Shin Ozawa, Masaaki Miyahara, Eiji Ohtani, Olga N. Koroleva, Yoshinori Ito, Konstantin Litasov, and Nikolay P. Pokhilenko	Jadeite in Chelyabinsk Meteorite and the Nature of an Impact Event on its Parent Body	Scientific Reports, 4 (2014) 5033	5	2014
80	SPring-8	BL10XU	Ohishi, Hirao	Itaru Ohira, Eiji Ohtani, Takeshi Sakai, Masaaki Miyahara, Naohisa Hirao, Yasuo Ohishi, and Masahiko Nishijima	Stability of a Hydrous δ -phase, AIOOH-MgSiO ₂ (OH) ₂ , and a Mechanism for Water Transport into the Base of Lower Mantle	Earth and Planetary Science Letters, 401 (2014) 12-17	6	2014
81	SPring-8	BL10XU	Ohishi, Hirao	Eiji Ohtani, Yohei Amaike, Seiji Kamada, Tatsuya Sakamaki, and Naohisa Hirao	Stability of Hydrous Phase H MgSiO ₄ H ₂ under Lower Mantle Conditions	Geophysical Research Letters, 41 (2014) 8283-8287	5	2014
82	SPring-8	BL10XU	Ohishi, Hirao	Masaaki Miyahara, Shohei Kaneko, Eiji Ohtani, Takeshi Sakai, Toshiro Nagase, Masahiro Kayama, Hirotsugu Nishido, and Naohisa Hirao	Discovery of Seifertite in a Shocked Lunar Meteorite	Nature Communications, 4 (2013) 1737		2013
83	SPring-8	BL10XU	Ohishi, Hirao	Ken-ichi Sakai, Y. Okada, S. Kitaoka, Junto Tsurumi, Yasuo Ohishi, Akihiko Fujiwara, Kazuo Takimiya, and Junichi Takeya	Anomalous Pressure Effect in Heteroacene Organic Field-effect Transistors	Physical Review Letters, 110 (2013) 096603	5	2013
84	SPring-8	BL10XU	Ohishi, Hirao	Lidong Dai, Yuki Kudo, Kei Hirose, Motohiko Murakami, Yuki Asahara, Haruka Ozawa, Yasuo Ohishi, and Naohisa Hirao	Sound Velocities of Na _{0.4} Mg _{0.6} Al _{1.6} Si _{0.4} O ₄ NAL and CF Phases to 73 GPa Determined by Brillouin Scattering Method	Physics and Chemistry of Minerals, 40 (2013) 195-201	7	2013
85	SPring-8	BL10XU	Ohishi, Hirao	Masanao Noguchi, Tetsuya Komabayashi, Kei Hirose, and Yasuo Ohishi	High-Temperature Compression Experiments of CaSiO ₃ Perovskite to Lowermost Mantle Conditions and Its Thermal Equation of State	Physics and Chemistry of Minerals, 40 (2013) 81-91	11	2013
86	SPring-8	BL10XU	Ohishi, Hirao	Kei Hirose	High-Pressure, High-Temperature X-ray Diffraction Measurements and the Discovery of Post-Perovskite Phase Transition	Journal of the Physical Society of Japan, 82 (2013) 021010		2013
87	SPring-8	BL10XU	Ohishi, Hirao	Jinya Kato, Kei Hirose, Haruka Ozawa, and Yasuo Ohishi	High-Pressure Experiments on Phase Transition Boundaries between Corundum, Rh ₂ O ₃ (II)- and CaIrO ₃ -Type Structure in Al ₂ O ₃	American Mineralogist, 98 (2013) 335-339	5	2013
88	SPring-8	BL10XU	Ohishi, Hirao	Kei Hirose, John Hernlund, and S�tphane Labrosse	Composition and State of the Core	Annual Review of Earth and Planetary Sciences, 41 (2013) 657-691	35	2013

89	SPring-8	BL10XU	Ohishi, Hirao	Eiji Ohtani	Chemical and Physical Properties and Thermal State of the Core	Physics and Chemistry of the Deep Earth, (2013) 244-270	27	2013
90	SPring-8	BL10XU	Ohishi, Hirao	Yohei Kojima, and Hiroaki Ohfuji	Structure and Stability of Carbon Nitride under High Pressure and High Temperature up to 125 GPa and 3000 K	Diamond and Related Materials, 39 (2013) 1-7	8	2013
91	SPring-8	BL10XU	Ohishi, Hirao	Ayako Shinozaki, Hisako Hirai, Hiroaki Ohfuji, Taku Okada, Shinichi Machida, and Takehiko Yagi	Influence of H ₂ Fluid on the Stability and Dissolution of Mg ₂ SiO ₄ Forsterite under High Pressure and High Temperature	American Mineralogist, 98 (2013) 1604-1609	6	2013
92	SPring-8	BL10XU	Ohishi, Hirao	Haruka Ozawa, Kei Hirose, Toshihiro Suzuki, Yasuo Ohishi, and Naohisa Hirao	Decomposition of Fe ₃ S above 250 GPa	Geophysical Research Letters, 40 (2013) 4845-4849	5	2013
93	SPring-8	BL10XU	Ohishi, Hirao	Chie Kato, Kei Hirose, Tetsuya Komabayashi, Haruka Ozawa, and Yasuo Ohishi	NAL Phase in K-rich Portion of the Lower Mantle	Geophysical Research Letters, 40 (2013) 5085-5088	4	2013
94	SPring-8	BL10XU	Ohishi, Hirao	Shigeaki Ono	Equation of State and Elasticity of B2-type FeSi: Implications for Silicon in the Inner Core	Physics of the Earth and Planetary Interiors, 224 (2013) 32-37	6	2013
95	SPring-8	BL10XU	Ohishi, Hirao	Takehiko Tanaka, Hisako Hirai, Takahiro Matsuoka, Yasuo Ohishi, Takehiko Yagi, Michika Ohtake, Yoshitaka Yamamoto, Satoshi Nakano, and Tetsuo Irifune	Phase Changes of Filled Ice Ih Methane Hydrate under Low Temperature and High Pressure	The Journal of Chemical Physics, 139 (2013) 104701	8	2013
96	SPring-8	BL10XU	Ohishi, Hirao	Yuki Asahara, Kei Hirose, Yasuo Ohishi, Naohisa Hirao, Haruka Ozawa, and Motohiko Murakami	Acoustic Velocity Measurements for Stishovite across the Post-Stishovite Phase Transition under Deviatoric Stress: Implications for the Seismic Features of Subducting Slabs in the Mid-Mantle	American Mineralogist, 98 (2013) 2053-2062	10	2013
97	SPring-8	BL10XU	Ohishi, Hirao	Hisako Hirai, Yoshitaka Yamamoto, Yasuo Ohishi, Takehiko Yagi, Takahiro Matsuoka, Takehiko Tanaka, Shingo Kagawa, and Michika Ohtake	Lowering Symmetry of Filled Ice Ic Hydrogen Hydrate under Low Temperatures and High Pressures	Low Temperature Science, 71 (2013) 173-180	8	2013
98	SPring-8	BL10XU	Ohishi, Hirao	Cedric Tassel, Liis Seinberg, Naoaki Hayashi, Subodh Ganesan Potti, Yoshitami Ajiro, Yoji Kobayashi, and Hiroshi Kageyama	Sr ₂ FeO ₃ with Stacked Infinite Chains of FeO ₄ Square Planes	Inorganic Chemistry, 52 (2013) 6096-6102	7	2013
99	SPring-8	BL10XU	Ohishi, Hirao	Masaaki Miyahara, Shin Ozawa, Eiji Ohtani, Makoto Kimura, Tomoaki Kubo, Takeshi Sakai, Toshiro Nagase, Masahiko Nishijima, and Naohisa Hirao	Jadeite Formation in Shocked Ordinary Chondrites	Earth and Planetary Science Letters, 373 (2013) 102-108	7	2013
100	SPring-8	BL10XU	Ohishi, Hirao	Tatsuo C. Kobayashi, Kenji Fujiwara, Keiki Takeda, Hisatomo Harima, Yoichi Ikeda, Takafumi Adachi, Yasuo Ohishi, Christoph Geibel, and Frank Steglich	Valence Crossover of Ce Ions in CeCu ₂ Si ₂ under High Pressure -Pressure Dependence of the Unit Cell Volume and the NQR Frequency	Journal of the Physical Society of Japan, 82 (2013) 114701	6	2013
4	SPring-8	BL13XU	Sakata	P. Chen, R. J. Sichel-Tissot, J. Y. Jo, R. T. Smith, S.-H. Baek, W. Saenrang, C.-B. Eom, O. Sakata, E. M. Dufresne, and P. G. Evans	Nonlinearity in the high-electric-field piezoelectricity of epitaxial BiFeO ₃ on SrTiO ₃	Appl. Phys. Lett. 100, 062906	3	2012

101	SPring-8	BL10XU	Ohishi, Hirao	Kenji Ohta, Ronald Cohen, Kei Hirose, Kristjan Haule, Katsuya Shimizu, and Yasuo Ohishi	Experimental and Theoretical Evidence for Pressure-Induced Metallization in FeO with Rocksalt-Type Structure	Physical Review Letters, 108 (2012) 026403	5	2012
102	SPring-8	BL10XU	Ohishi, Hirao	Takeshi Sakai, Eiji Ohtani, Seiji Kamada, Hidenori Terasaki, and Naohisa Hirao	Compression of Fe _{88.1} Ni _{9.1} S _{2.8} Alloy up to the Pressure of Earth's Inner Core	Journal of Geophysical Research, 117 (2012) B02210	7	2012
103	SPring-8	BL10XU	Ohishi, Hirao	Ayano Chiba, Nobumasa Funamori, Kazuya Nakayama, Yasuo Ohishi, Stephen M. Bennington, Sanjay Rastogi, Anuj Shukla, Kazuhiko Tsuji, and Mikihiro Takenaka	Pressure-induced Structural Change of Intermediate-range Order in Poly(4-methyl-1-pentene) Melt	Physical Review E, 85 (2012) 021807	5	2012
104	SPring-8	BL10XU	Ohishi, Hirao	John Tse, Serge Desgreniers, Yasuo Ohishi, and Takahiro Matsuoka	Large Amplitude Flexional Behaviour of Elemental Calcium under High Pressure	Scientific Reports, 2 (2012) 372	6	2012
105	SPring-8	BL10XU	Ohishi, Hirao	Motohiko Murakami, Yasuo Ohishi, Naohisa Hirao, and Kei Hirose	A Perovskitic Lower Mantle Inferred from High-Pressure, High-Temperature Sound Velocity Data	Nature, 485 (2012) 90-94	5	2012
106	SPring-8	BL10XU	Ohishi, Hirao	Tetsuya Komabayashi, Kei Hirose, and Yasuo Ohishi	In situ X-ray Diffraction Measurements of the <i>fcc-hcp</i> Phase Transition Boundary of an Fe-Ni Alloy in an Internally Heated Diamond Anvil Cell	Physics and Chemistry of Minerals, 39 (2012) 329-338	10	2012
107	SPring-8	BL10XU	Ohishi, Hirao	Hiroaki Ohfuji, Shinsuke Okimoto, Takehiro Kunimoto, Futoshi Isoe, Hitoshi Sumiya, Kazuki Komatsu, and Tetsuo Irifune	Influence of Graphite Crystallinity on the Microtexture of Nano-Polycrystalline Diamond Obtained by Direct Conversion	Physics and Chemistry of Minerals, 39 (2012) 543-552	10	2012
108	SPring-8	BL10XU	Ohishi, Hirao	Kenji Ohta, Takashi Yagi, Naoyuki Taketoshi, Kei Hirose, Tetsuya Komabayashi, Tetsuya Baba, Yasuo Ohishi, and John Hernlund	Lattice Thermal Conductivity of MgSiO ₃ Perovskite and Post-perovskite at the Core-mantle Boundary	Earth and Planetary Science Letters, 349-350 (2012) 109-115	7	2012
109	SPring-8	BL10XU	Ohishi, Hirao	Yuichi Akahama, Toshiyuki Sugimoto, Hiroshi Fujihisa, Yoshiki Ozawa, Hiroshi Fukui, Naohisa Hirao, and Yasuo Ohishi	Identification of Superlattice Structure <i>cI</i> 16 in P-VI Phase of Phosphorus at 340 GPa and Room Temperature via X-ray Diffraction	Physical Review B, 86 (2012) 024109	5	2012
110	SPring-8	BL10XU	Ohishi, Hirao	Daisuke Hamane, Meiguang Zhang, Takehiko Yagi, and Yangming Ma	High-pressure and High-temperature Phase Transitions in FeTiO ₃ and a New Dense FeTi ₃ O ₇ Structure	American Mineralogist, 97 (2012) 568-572	5	2012
111	SPring-8	BL10XU	Ohishi, Hirao	Hisako Hirai, Shingo Kagawa, Takehiko Tanaka, Takahiro Matsuoka, Takehiko Yagi, Yasuo Ohishi, Satoshi Nakano, Yoshitaka Yamamoto, and Tetsuo Irifune	Structural Changes of Filled Ice Ic Hydrogen Hydrate under Low Temperatures and High Pressures from 5 to 50 GPa	The Journal of Chemical Physics, 137 (2012) 074505	6	2012
112	SPring-8	BL10XU	Ohishi, Hirao	Yuki Kudo, Kei Hirose, Motohiko Murakami, Yuki Asahara, Haruka Ozawa, Yasuo Ohishi, and Naohisa Hirao	Sound Velocity Measurements of CaSiO ₃ Perovskite to 133 GPa and Implications for Lowermost Mantle Seismic Anomalies	Earth and Planetary Science Letters, 349-350 (2012) 1-7	7	2012
113	SPring-8	BL10XU	Ohishi, Hirao	Emiko Sugimura, Tetsuya Komabayashi, Kenji Ohta, Kei Hirose, Yasuo Ohishi, and Leonid S. Dubrovinsky	Experimental Evidence of Superionic Conduction in H ₂ O Ice	The Journal of Chemical Physics, 137 (2012) 194505	8	2012
114	SPring-8	BL10XU	Ohishi, Hirao	Ayano Chiba, Mikihiro Takenaka, and Nobumasa Funamori	Japanese title	化学 (Chemistry), 67 (2012) 25-28	4	2012

115	SPring-8	BL10XU	Ohishi, Hirao	Seiji Kamada, Eiji Ohtani, Hidenori Terasaki, Takeshi Sakai, Masaaki Miyahara, Yasuo Ohishi, and Naohisa Hirao	Melting Relationships in the Fe-Fe ₃ S System up to the Outer Core Conditions	Earth and Planetary Science Letters, 359-360 (2012) 26-33	8	2012
116	SPring-8	BL10XU	Ohishi, Hirao	Takahiro Ishikawa, Hitose Nagara, Naoshi Suzuki, and Katsuya Shimizu	First-Principles Molecular Dynamics Simulation for Calcium under High-Pressure: Thermodynamic Effect on Simple Cubic Structure	Journal of the Physical Society of Japan, 81 (2012) 124601	6	2012
117	SPring-8	BL10XU	Ohishi, Hirao	Takahiro Ishikawa, Hitose Nagara, Naoshi Suzuki, and Katsuya Shimizu	First-Principles Molecular Dynamics Study on Simple Cubic Calcium: Comparison with Simple Cubic Phosphorus	High Pressure Research, 32 (2012) 11-17	7	2012
118	SPring-8	BL10XU	Ohishi, Hirao	Takahiro Ishikawa, Kenta Mukai, and Katsuya Shimizu	First-Principles Study on Superconductivity of Solid Oxygen	High Pressure Research, 32 (2012) 457-463	7	2012
119	SPring-8	BL10XU	Ohishi, Hirao	Saori Imada, Yasuo Ohishi, Toshihiro Suzuki, Tetsuya Komabayashi, and Kei Hirose	Compression of Na _{0.4} Mg _{0.6} Al _{1.6} Si _{0.4} O ₄ NAL and Ca-ferrite-type Phases	Physics and Chemistry of Minerals, 39 (2012) 525-530	6	2012
120	SPring-8	BL10XU	Ohishi, Hirao	Shigehiko Tateno, Kei Hirose, Tetsuya Komabayashi, Haruka Ozawa, and Yasuo Ohishi	The Structure of Fe-Ni Alloy in Earth's Inner Core	Geophysical Research Letters, 39 (2012) L12305	4	2012
5	SPring-8	BL13XU	Sakata	S. Nakashima, H. Fujisawa, M. Shimizu, O. Sakata, T. Yamada, H. Funakubo, JM. Park, T. Knashima, M. Okuyama	X-ray diffraction study of electric-field-induced strains in polycrystalline BiFeO ₃ thin films at low temperatures by using synchrotron radiation	J. Korean Phys. Soc., 59. 2556	3	2011
6	SPring-8	BL13XU	Sakata	Y. Ehara, S. Yasui, J. Ngata, D. Kan, V. Anbusathaiiah, T. Yamada, O. Sakata, H. Funakubo, V. Nagarajan	Ultrafast switching of ferroelastic nanodomains in bilayered ferroelectric thin films	Appl. Phys. Lett. 99, 182906	3	2011
121	SPring-8	BL10XU	Ohishi, Hirao	Takahiro Matsuoka, Naohisa Hirao, Yasuo Ohishi, Katsuya Shimizu, Akihiko Machida, and Katsutosi Aoki	Structural and Electrical Transport Properties of FeH _x under High Pressures and Low Temperatures	High Pressure Research, 31 (2011) 64-67	4	2011
122	SPring-8	BL10XU	Ohishi, Hirao	Taku Okada, Takehiko Yagi, and Daisuke Hamane	High-Pressure Phase Behavior of MnTiO ₃ : Decomposition of Perovskite into MnO and MnTi ₂ O ₅	Physics and Chemistry of Minerals, 38 (2011) 251-258	8	2011
123	SPring-8	BL10XU	Ohishi, Hirao	Takeshi Sakai, Eiji Ohtani, Naohisa Hirao, and Yasuo Ohishi	Equation of State of the NaCl-B2 Phase up to 304 GPa	Journal of Applied Physics, 109 (2011) 084912	6	2011
124	SPring-8	BL10XU	Ohishi, Hirao	Takeshi Sakai, Eiji Ohtani, Naohisa Hirao, and Yasuo Ohishi	Stability Field of the hcp-structure for Fe, Fe-Ni, and Fe-Ni-Si Alloys up to 3 Mbar	Geophysical Research Letters, 38 (2011) L09302	5	2011
125	SPring-8	BL10XU	Ohishi, Hirao	Hidenori Terasaki, Seiji Kamada, Takeshi Sakai, Eiji Ohtani, Naohisa Hirao, and Yasuo Ohishi	Liquidus and Solidus Temperatures of a Fe-O-S Alloy up to the Pressures of the Outer Core: Implication for the Thermal Structure of the Earth's Core	Earth and Planetary Science Letters, 304 (2011) 559-564	6	2011
126	SPring-8	BL10XU	Ohishi, Hirao	Masafumi Sakata, Yuki Nakamoto, Katsuya Shimizu, Takahiro Matsuoka, and Yasuo Ohishi	Superconducting State of Ca-VII Below a Critical Temperature of 29 K at a Pressure of 216 GPa	Physical Review B, 83 (2011) 220512 (R)	4	2011
127	SPring-8	BL10XU	Ohishi, Hirao	Yuki Nakamoto, Masafumi Sakata, Katsuya Shimizu, Hitoshi Sumiya, Tetsuo Irifune, Takahiro Matsuoka, and Yasuo Ohishi	High-Pressure Generation using Nano-Polycrystalline Diamonds as Anvil Materials	Review of Scientific Instruments, 82 (2011) 066104	2	2011

128	SPring-8	BL10XU	Ohishi, Hiraio	Takayuki Isono, Yuta Hara, Daisuke Iguchi, Yo Machida, Koichi Izawa, Satoshi Tsutsui, Takahiro Matsuoka, Yasuo Ohishi, Bernard Salce, Jacques Flouquet, Hiroki Ogusu, Junichi Yamaura, and Zenji Hiroi	Crystal Structure and Superconductivity of β -pyrochlore Oxides under High Pressure	Journal of the Physical Society of Japan, 80 (2011) SA041	3	2011
129	SPring-8	BL10XU	Ohishi, Hiraio	Saori Imada, Kei Hirose, and Yasuo Ohishi	Stabilities of NAL and Ca-ferrite-type Phases on the Join NaAlSiO ₄ -MgAl ₂ O ₄ at High Pressure	Physics and Chemistry of Minerals, 38 (2011) 557-560	4	2011
130	SPring-8	BL10XU	Ohishi, Hiraio	Ryosuke Sinmyo, Kei Hirose, Shunsuke Muto, Yasuo Ohishi, and Akira Yasuhara	The Valence State and Partitioning of Iron in the Earth's Lowermost Mantle	Journal of Geophysical Research, 116 (2011) B07205	9	2011
131	SPring-8	BL10XU	Ohishi, Hiraio	Hisao Kobayashi, Junpei Umemura, Xiaowei Zhang, Yasuo Ohishi, Yoshiya Uwatoko, Hironobu Fujii, and Nobuhiko Sakai	Structural and Magnetic Properties of Fe ₂ P under Pressure at Low Temperature	Journal of the Physical Society of Japan, 80 (2011) 084719	6	2011
132	SPring-8	BL10XU	Ohishi, Hiraio	Haruhiko Dekura, Taku Tsuchiya, Yasuhiro Kuwayama, and Jun Tsuchiya	Theoretical and Experimental Evidence for a New Post-Cotunnite Phase of Titanium Dioxide with Significant Optical Absorption	Physical Review Letters, 107 (2011) 045701	4	2011
133	SPring-8	BL10XU	Ohishi, Hiraio	Koun Shirai, Haruhiko Dekura, Yoshihisa Mori, Yutaka Fujii, Hiroshi Hyodo, and Kaoru Kimura	Structural Study of α -Rhombohedral Boron at High Pressures	Journal of the Physical Society of Japan, 80 (2011) 084601	13	2011
134	SPring-8	BL10XU	Ohishi, Hiraio	Yoichi Nakajima, Eiichi Takahashi, Nagayoshi Sata, Yu Nishihara, Kei Hirose, Kenichi Funakoshi, and Yasuo Ohishi	Thermoelastic Property and High-Pressure Stability of Fe ₇ C ₃ : Implication for Iron-Carbide in the Earth's Core	American Mineralogist, 96 (2011) 1158-1165	8	2011
135	SPring-8	BL10XU	Ohishi, Hiraio	Takeshi Sakai, Eiji Ohtani, Hidenori Terasaki, Seiji Kamada, Naohisa Hiraio, Masaaki Miyahara, and Masahiko Nishijima	Phase Stability and Compression Study of (Fe _{0.89} Ni _{0.11}) ₃ S up to Pressure of the Earth's Core	American Mineralogist, 96 (2011) 1490-1494	5	2011
136	SPring-8	BL10XU	Ohishi, Hiraio	Masaaki Miyahara, Eiji Ohtani, Shin Ozawa, Makoto Kimura, Ahmed El Goresy, Takeshi Sakai, Toshirou Nagase, Kenji Hiraga, Naohisa Hiraio, and Yasuo Ohishi	Natural Dissociation of Olivine to (Mg,Fe)SiO ₃ Perovskite and Magnesio-wüstite in a Shocked Martian Meteorite	Proceedings of the National Academy of Sciences of the United States of America, 108 (2011) 5999-6003	5	2011
137	SPring-8	BL10XU	Ohishi, Hiraio	Eiji Ohtani, Shin Ozawa, Masaaki Miyahara, Yoshinori Ito, Takeshi Mikouchi, Makoto Kimura, Tomoko Arai, Kazuhisa Sato, and Kenji Hiraga	Coesite and Stishovite in a Shocked Lunar Meteorite, Asuka-881757, and Impact Events in Lunar Surface	Proceedings of the National Academy of Sciences of the United States of America, 108 (2011) 463-466	4	2011
138	SPring-8	BL10XU	Ohishi, Hiraio	Seiji Kamada, Hidenori Terasaki, Eiji Ohtani, and Takeshi Sakai	Phase and Melting Relationships in the Fe-S System under High Pressures: Application to the Temperature Profile in the Core	The Review of High Pressure Science and Technology, 21 (2011) 77-83	7	2011
139	SPring-8	BL10XU	Ohishi, Hiraio	Haruka Ozawa, Futoshi Takahashi, Kei Hirose, Yasuo Ohishi, and Naohisa Hiraio	Phase Transition of FeO and Stratification in Earth's Outer Core	Science, 334 (2011) 792-794	3	2011
140	SPring-8	BL10XU	Ohishi, Hiraio	Takafumi Yamamoto, Yoji Kobayashi, Taku Okada, Takehiko Yagi, Takateru Kawakami, Cedric Tassel, Shota Kawasaki, Naoyuki Abe, Ken Niwa, Takumi Kikegawa, Naohisa Hiraio, Mikio Takano, and Hiroshi Kageyama	B 1-to-B 2 Structural Transitions in Rock Salt Intergrowth Structures	Inorganic Chemistry, 50 (2011) 11787-11794	8	2011

141	SPring-8	BL10XU	Ohishi, Hirao	John Tse, Ling Yang, S. J. Zhang, Chang Qing Jin, Christoph J. Sahle, Christian Sternemann, Alexander Nyrow, Valentina Giordano, Jian Zhong Jiang, Shoji Yamanaka, Serge Desgreniers, and Christopher A. Tulk	Pressure-induced Electron Topological Transitions in Ba-doped Si Clathrate	Physical Review B, 84 (2011) 184105	6	2011
142	SPring-8	BL10XU	Ohishi, Hirao	Hisashi Kotegawa, Shingo Araki, Teruhiko Akazawa, Akihiro Hori, Yuta Irie, Satoshi Fukushima, Hiroyuki Hidaka, Tatsuo Kobayashi, Keiki Takeda, Yasuo Ohishi, Keizo Murata, Etsuji Yamamoto, Shugo Ikeda, Yoshinori Haga, Rikio Settai, and Yoshichika Onuki	Pressure-induced Structural Phase Transitions in Uir	Physical Review B, 84 (2011) 054524	5	2011
143	SPring-8	BL10XU	Ohishi, Hirao	Daisuke Hamane, Takayuki Fujita, and Takehiko Yagi	Behavior of Xenon-Iron System under the Core Pressure	The Review of High Pressure Science and Technology, 21 (2011) 109-114	6	2011
144	SPring-8	BL10XU	Ohishi, Hirao	Hidetoshi Asanuma, Eiji Ohtani, Takeshi Sakai, Hidenori Terasaki, Seiji Kamada, Naohisa Hirao, and Yasuo Ohishi	Static Compression of Fe _{0.83} Ni _{0.09} Si _{0.08} Alloy to 374 GPa and Fe _{0.93} Si _{0.07} Alloy to 252 GPa: Implications for the Earth's Inner Core	Earth and Planetary Science Letters, 310 (2011) 113-118	6	2011
145	SPring-8	BL10XU	Ohishi, Hirao	Zhenhua Chi, Huyen Nguyen, Takahiro Matsuoka, Tomoko Kagayama, Naohisa Hirao, Yasuo Ohishi, and Katsuya Shimizu	Cryogenic Implementation of Charging Diamond Anvil Cells with H ₂ and D ₂	Review of Scientific Instruments, 82 (2011) 105109	4	2011
146	SPring-8	BL10XU	Ohishi, Hirao	Takahiro Matsuoka, Naohisa Hirao, Yasuo Ohishi, Katsuya Shimizu, Akihiko Machida, and Katsutosi Aoki	Electrical Resistance Measurement Technique for Metal Hydrides under High-Pressure H ₂ Conditions & Electrical Transport and Structural Properties of FeH _x	Review of High Pressure Science and Technology, 21 (2011) 190-196	7	2011
7	SPring-8	BL13XU	Sakata	T. Yamada, J. Wang, O. Sakata, H. Tanaka, Y. Ehara, S. Yasui, N. Setter, and H. Funakubo	Structural property and electric field response of a single perovskite PbTiO ₃ nanowire using micro x-ray beam	Jpn. J. Appl. Phys. 49, 09MC09	4	2010
8	SPring-8	BL13XU	Sakata	T. Yamada, J. Wang, O. Sakata*, C. S. Sandu, Z. He, T. Kamo, S. Yasui, N. Setter, and H. Funakubo	Synchrotron x-ray diffraction study on a single nanowire of PX-phase lead titanate	J. Eur. Ceram. Soc. 30, 3259	4	2010
9	SPring-8	BL13XU	Sakata	O. Sakata, S. Yasui, T. Yamada, M. Yabashi, S. Kimura, and H. Funakubo	In-situ lattice-strain analysis of a ferroelectric thin film under an applied pulse electric field	AIP conference proceedings 1234, 151	4	2010
147	SPring-8	BL10XU	Ohishi, Hirao	Kenji Ohta, Kei Hirose, Masahiro Ichiki, Katsuya Shimizu, Nagayoshi Sata, and Yasuo Ohishi	Electrical Conductivities of Pyrolytic Mantle and MORB Materials up to the Lowermost Mantle Conditions	Earth and Planetary Science Letters, 289 (2010) 497-502	6	2010
148	SPring-8	BL10XU	Ohishi, Hirao	Yuki Asahara, Motohiko Murakami, Yasuo Ohishi, Naohisa Hirao, and Kei Hirose	Sound Velocity Measurement in Liquid Water up to 25 GPa and 900 K: Implications for Densities of Water at Lower Mantle Conditions	Earth and Planetary Science Letters, 288 (2010) 479-485	7	2010
149	SPring-8	BL10XU	Ohishi, Hirao	Tetsuji Kume, Satoshi Ohno, Shigeo Sasaki, Hiroyasu Shimizu, Yasuo Ohishi, Norihiko Okamoto, Kyosuke Kishida, Katsushi Tanaka, and Haruyuki Inui	Pressure Induced Phase Transformation of Ba ₈ Ga ₁₆ Ge ₃₀ Clathrate Studied by X-ray Diffraction and Raman Spectroscopy	Journal of Applied Physics, 107 (2010) 013517	7	2010

150	SPring-8	BL10XU	Ohishi, Hiraio	Daisuke Hamane, Takehiko Yagi, Nagayoshi Sata, Takayuki Fujita, and Taku Okada	No Reactions Observed in Xe-Fe System even at Earth Core Pressure	Geophysical Research Letters, 37 (2010) L04302	4	2010
151	SPring-8	BL10XU	Ohishi, Hiraio	Yasuhiro Kuwayama	Phase Relations of Iron-Alloys at Multimegabar Pressures and Its Implications for the Structure of the Earth's Inner Core	The Review of High Pressure Science and Technology, 20 (2010) 65-71	7	2010
152	SPring-8	BL10XU	Ohishi, Hiraio	Hiroaki Ohfuji, Taku Okada, Takehiko Yagi, Hitoshi Sumiya, and Tetsuo Irifune	Application of Nano-Polycrystalline Diamond to Laser-Heated Diamond Anvil Cell Experiments	High Pressure Research, 30 (2010) 142-150	9	2010
153	SPring-8	BL10XU	Ohishi, Hiraio	Haruka Ozawa, Kei Hirose, Shigehiko Tateno, Nagayoshi Sata, and Yasuo Ohishi	Phase Transition Boundary between B1 and B8 Structures of FeO up to 210 GPa	Physics of the Earth and Planetary Interiors, 179 (2010) 157-163	7	2010
154	SPring-8	BL10XU	Ohishi, Hiraio	Hitoshi Yusa, Taku Tsuchiya, Nagayoshi Sata, and Yasuo Ohishi	Dense Yttria Phase Eclipsing the A-type Sesquioxides Structure: High-Pressure Experiments and ab initio Calculations	Inorganic Chemistry, 49 (2010) 4478-4485	8	2010
155	SPring-8	BL10XU	Ohishi, Hiraio	Hiroaki Ohfuji, Taku Okada, Takehiko Yagi, Hitoshi Sumiya, and Tetsuo Irifune	Laser Heating in Nano-Polycrystalline Diamond Anvil Cell	Journal of Physics: Conference Series, 215 (2010) 012192	5	2010
156	SPring-8	BL10XU	Ohishi, Hiraio	Yuki Nakamoto, Masafumi Sakata, Katsuya Shimizu, Hiroshi Fujihisa, Takahiro Matsuoka, Yasuo Ohishi, and Takumi Kikegawa	Ca-VI: A High-Pressure Phase of Calcium above 158 GPa	Physical Review B, 81 (2010) 140106		2010
157	SPring-8	BL10XU	Ohishi, Hiraio	Yusuke Seto, Daisuke Hamane, Takaya Nagai, Nagayoshi Sata, and Kiyoshi Fujino	Synchrotron X-ray Diffraction Study for Crystal Structure of Solid Carbon Dioxide CO ₂ -V	Journal of Physics: Conference Series, 215 (2010) 012015	4	2010
158	SPring-8	BL10XU	Ohishi, Hiraio	Takaya Nagai, Tomoki Ishido, Yusuke Seto, Daisuke Nishio-Hamane, Nagayoshi Sata, and Kiyoshi Fujino	Pressure-Induced Spin Transition in FeCO ₃ -siderite Studied by X-ray Diffraction Measurements	Journal of Physics: Conference Series, 215 (2010) 012002		2010
159	SPring-8	BL10XU	Ohishi, Hiraio	Shigeaki Ono	The Equation of State of B2-type NaCl	Conference Series, 215 (2010) 012196	7	2010
160	SPring-8	BL10XU	Ohishi, Hiraio	Shigeaki Ono, Takumi Kikegawa, Naohisa Hiraio, and Kenji Mibe	High-Pressure Magnetic Transition in hcp-Fe	American Mineralogist, 95 (2010) 880-883	4	2010
161	SPring-8	BL10XU	Ohishi, Hiraio	Ikuya Yamada, Yuka Takahashi, Kenya Ohgushi, Norimasa Nishiyama, Ryoji Takahashi, Kohei Wada, Takehiro Kunimoto, Hiroaki Ohfuji, Yohei Kojima, Toru Inoue, and Tetsuo Irifune	CaCu ₃ Pt ₄ O ₁₂ : The First Perovskite with the B Site Fully Occupied by Pt ⁴⁺	Inorganic Chemistry, 49 (2010) 6778-6780	3	2010
162	SPring-8	BL10XU	Ohishi, Hiraio	Alexey Ganin, Yasuhiro Takabayashi, Peter Jeglic, Denis Arcon, Anton Potocnik, Peter Baker, Yasuo Ohishi, Martin McDonald, Manolis Tzirakis, Alec McLennan, George Darling, Masaki Takata, Matthew Rosseinsky, and Kosmas Prassides	Polymorphism Control of Superconductivity and Magnetism in Cs ₃ C ₆₀ Close to the Mott Transition	Nature, 466 (2010) 221-225	5	2010
163	SPring-8	BL10XU	Ohishi, Hiraio	Tetsu Watanuki, Taku Sato, and An-Pang Tsai	Structural Stability of an Icosahedral Cd-Yb Quasicrystal and Its Crystalline Approximant under High Pressure	Journal of Physics: Conference Series, 215 (2010) 012019	4	2010
164	SPring-8	BL10XU	Ohishi, Hiraio	Kei Hirose	Deep Mantle Properties	Science, 327 (2010) 151-152	3	2010

165	SPring-8	BL10XU	Ohishi, Hirao	Kei Hirose	The Earth's Missing Ingredient	Scientific American, 302 (2010) 76-83	8	2010
166	SPring-8	BL10XU	Ohishi, Hirao	Nagayoshi Sata, Kei Hirose, GuoYin Shen, Yoichi Nakajima, Yasuo Ohishi, and Naohisa Hirao	Compression of FeSi, Fe ₃ C, Fe _{0.95} O, and FeS under the Core Pressures and Implication for Light Element in the Earth's Core	Journal of Geophysical Research, 115 (2010) B09204	13	2010
167	SPring-8	BL10XU	Ohishi, Hirao	Tetsuya Komabayashi, Kei Hirose, Yukio Nagaya, Emiko Sugimura, and Yasuo Ohishi	High-temperature Compression of Ferroperricite and the Effect of Temperature on Iron Spin Transition	Earth and Planetary Science Letters, 297 (2010) 691-699	9	2010
168	SPring-8	BL10XU	Ohishi, Hirao	Shigehiko Tateno, Kei Hirose, Yasuo Ohishi, and Yoshiyuki Tatsumi	The Structure of Iron in Earth's Inner Core	Science, 330 (2010) 359-361	3	2010
169	SPring-8	BL10XU	Ohishi, Hirao	Shigehiko Tateno, Kei Hirose, Nagayoshi Sata, and Yasuo Ohishi	Structural Distortion of CaSnO ₃ Perovskite under Pressure and the Quenchable Post-Perovskite Phase as a Low-Pressure Analogue to MgSiO ₃	Physics of the Earth and Planetary Interiors, 181 (2010) 54-59	6	2010
170	SPring-8	BL10XU	Ohishi, Hirao	Hiroki Ogusu, Nao Takeshita, Koichi Izawa, Junichi Yamaura, Yasuo Ohishi, Satoshi Tsutsui, Yoshihiko Okamoto, and Zenji Hiroi	Superconducting and Structural Transitions in the β -Pyrochlore Oxide KOs ₂ O ₆ under High Pressure	Journal of the Physical Society of Japan, 79 (2010) 114710	6	2010
171	SPring-8	BL10XU	Ohishi, Hirao	Yuki Asahara, Kei Hirose, Yasuo Ohishi, Naohisa Hirao, and Motohiko Murakami	Thermoelastic Properties of Ice VII and Its High-pressure Polymorphs: Implications for Dynamics of Cold Slab Subduction in the Lower Mantle	Earth and Planetary Science Letters, 299 (2010) 474-482	9	2010
172	SPring-8	BL10XU	Ohishi, Hirao	Kenji Ohta, Kei Hirose, Katsuya Shimizu, and Yasuo Ohishi	High-Pressure Experimental Evidence for Metal FeO with Normal NiAs-type Structure	Physical Review B, 82 (2010) 174120		2010
173	SPring-8	BL10XU	Ohishi, Hirao	Emiko Sugimura, Tetsuya Komabayashi, Kei Hirose, Nagayoshi Sata, Yasuo Ohishi, and Leonid Dubrovinsky	Simultaneous High-Pressure and High-Temperature Volume Measurements of Ice VII and Its Thermal Equation of State	Physical Review B, 82 (2010) 134103		2010
174	SPring-8	BL10XU	Ohishi, Hirao	Daisuke Hamane, Takehiko Yagi, Masahiro Ohshiro, Ken Niwa, Taku Okada, and Yusuke Seto	Decomposition of Perovskite FeTiO ₃ into Wüstite Fe _{1-x} Ti _{0.5x} O and Orthorhombic FeTi ₃ O ₇ at High Pressure	Physical Review B, 82 (2010) 092103		2010
175	SPring-8	BL10XU	Ohishi, Hirao	Yuichi Akahama, Manabu Nishimura, Haruki Kawamura, Yasuo Ohishi, Naohisa Hirao, and Kenichi Takemura	Evidence from X-ray Diffraction of Orientational Ordering in Phase III of Solid Hydrogen at Pressures up to 183 GPa	Physical Review B, 82 (2010) 060101 (R)		2010
176	SPring-8	BL10XU	Ohishi, Hirao	Yuichi Akahama, Haruki Kawamura, Yasuo Ohishi, Naohisa Hirao, and Kenichi Takemura	Raman Scattering and X-ray Diffraction Experiments for Phase III of Solid Hydrogen	Journal of Physics: Conference Series, 215 (2010) 012056	4	2010
177	SPring-8	BL10XU	Ohishi, Hirao	Yuichi Akahama, and Haruki Kawamura	Pressure Calibration of Diamond Anvil Raman Gauge to 410 GPa	Journal of Physics: Conference Series, 215 (2010) 012195	5	2010
178	SPring-8	BL10XU	Ohishi, Hirao	Takeshi Sakai, Eiji Ohtani, Hidenori Terasaki, Masaaki Miyahara, Masahiko Nishijima, Naohisa Hirao, Yasuo Ohishi, and Nagayoshi Sata	Fe-Mg Partitioning between Post-Perovskite and Ferroperricite in the Lowermost Mantle	Physics and Chemistry of Minerals, 37 (2010) 487-496	8	2010

179	SPring-8	BL10XU	Ohishi, Hirao	Seiji Kamada, Hidenori Terasaki, Eiji Ohtani, Takeshi Sakai, Takumi Kikegawa, Yasuo Ohishi, Naohisa Hirao	Phase Relationship of the Fe-FeS System in Conditions up to the Earth's Outer Core	Earth and Planetary Science Letters, 294 (2010) 94-100	7	2010
180	SPring-8	BL10XU	Ohishi, Hirao	Ryuichi Nomura, Kei Hirose, Nagayoshi Sata, and Yasuo Ohishi	Precise Determination of Post-stishovite Phase Transition Boundary and Implications for Seismic Heterogeneities in the Mid-lower Mantle	Physics of the Earth and Planetary Interiors, 183 (2010) 104-109	6	2010
181	SPring-8	BL10XU	Ohishi, Hirao	Kei Hirose, Yukio Nagaya, Sebastien Merkel, and Yasuo Ohishi	Deformation of MnGeO ₃ Post-perovskite at Lower Mantle Pressure and Temperature	Geophysical Research Letters, 37 (2010) L20302		2010
182	SPring-8	BL10XU	Ohishi, Hirao	Nagayoshi Sata, Kei Hirose, Masanori Matsui, and Naohisa Hirao	Comparison of Room-Temperature Pressure Scale Using Simultaneous Volume Measurements with Laser Annealing Technique	The Review of High Pressure Science and Technology, 20 (2010) 240-243	4	2010
10	SPring-8	BL13XU	Sakata	S. Yasui, O. Sakata, M. Nakajima, S. Utsugi, K. Yazawa, T. Yamada, and H. Funakubo	Piezoelectric properties of {100}-oriented epitaxial BiCoO ₃ -BiFeO ₃ films measured using synchrotron x-ray diffraction	Jpn. J. Appl. Phys. 48, 09KD06	4	2009
183	SPring-8	BL10XU	Ohishi, Hirao	Motohiko Murakami, Yasuo Ohishi, Naohisa Hirao, and Kei Hirose	Elasticity of MgO to 130 GPa: Implications for Lower Mantle Mineralogy	Earth and Planetary Science Letters, 277 (2009) 123-129	7	2009
184	SPring-8	BL10XU	Ohishi, Hirao	Shigehiko Tateno, Kei Hirose, Nagayoshi Sata, and Yasuo Ohishi	Determination of Post-perovskite Phase Transition Boundary up to 4400 K and Implications for Thermal Structure in D'' layer	Earth and Planetary Science Letters, 277 (2009) 130-136	7	2009
185	SPring-8	BL10XU	Ohishi, Hirao	Yoshinori Tange, Eiichi Takahashi, Yu Nishihara, Kenichi Funakoshi, and Nagayoshi Sata	Phase Relations in the System MgO-FeO-SiO ₂ to 50 GPa and 2000°C: An Application of Experimental Techniques using Multianvil Apparatus with Sintered Diamond Anvils	Journal of Geophysical Research, 114 (2009) B02214	12	2009
186	SPring-8	BL10XU	Ohishi, Hirao	Tetsuji Kume, Hiroyasu Shimizu, Ryusuke Oe, Satoshi Oono, Shigeo Sasaki, Kengo Kishimoto, Tsuyoshi Koyanagi, and Yasuo Ohishi	Raman and X-ray Diffraction Studies of Cationic Type-I Clathrate I ₈ Sb ₈ Ge ₃₈ : Pressure-Induced Phase Transitions and Amorphization	Journal of Applied Physics, 105 (2009) 043522	6	2009
187	SPring-8	BL10XU	Ohishi, Hirao	Takahiro Matsuoka, and Katsuya Shimizu	Direct Observation of a Pressure-Induced Metal-to-Semiconductor Transition in Lithium	Nature, 458 (2009) 186-189	4	2009
188	SPring-8	BL10XU	Ohishi, Hirao	Junichi Yamaura, Zenji Hiroi, Kenji Tsuda, Koichi Izawa, Yasuo Ohishi, and Satoshi Tsutsui	Re-examination of the Crystal Structure of the β -pyrochlore Oxide Superconductor KO ₂ O ₆ by X-ray and Convergent-Beam Electron Diffraction Analyses	Solid State Communications, 149 (2009) 31-34	4	2009
189	SPring-8	BL10XU	Ohishi, Hirao	Masafumi Takesue, Kenji Shimoyama, Kazuaki Shibuki, Atsuko Suino, Yukiya Hakuta, Hiromichi Hayashi, Yasuo Ohishi, and Richard Lee Smith	Formation of Zinc Silicate in Supercritical Water Followed with <i>in situ</i> Synchrotron Radiation X-ray Diffraction	The Journal of Supercritical Fluids, 49 (2009) 351-355	6	2009

190	SPring-8	BL10XU	Ohishi, Hirao	Yasuhiro Kuwayama, Toshimitsu Sawai, Kei Hirose, Nagayoshi Sata, and Yasuo Ohishi	Phase Relations of Iron–Silicon Alloys at High Pressure and High Temperature	Physics and Chemistry of Minerals, 36 (2009) 511-518	8	2009
191	SPring-8	BL10XU	Ohishi, Hirao	Daisuke Hamane, and Takehiko Yagi	Equation of State for Postperovskite Phases in the MgSiO ₃ -FeSiO ₃ -FeAlO ₃ System	Physics of the Earth and Planetary Interiors, 175 (2009) 145-150	6	2009
192	SPring-8	BL10XU	Ohishi, Hirao	Haruka Ozawa, Kei Hirose, Masanori Mitome, Yoshio Bando, Nagayoshi Sata, and Yasuo Ohishi	Experimental Study of Reaction between Perovskite and Molten Iron to 146 GPa and Implications for Chemically Distinct Buoyant Layer at the Top of the Core	Physics and Chemistry of Minerals, 36 (2009) 355-363	9	2009
193	SPring-8	BL10XU	Ohishi, Hirao	Motohiko Murakami, Yuki Asahara, Yasuo Ohishi, Naohisa Hirao, and Kei Hirose	Development of <i>in situ</i> Brillouin Spectroscopy at High Pressure and High Temperature with Synchrotron Radiation and Infrared Laser Heating System: Application to the Earth's Deep Interior	Physics of the Earth and Planetary Interiors, 174 (2009) 282-291	10	2009
194	SPring-8	BL10XU	Ohishi, Hirao	Hitoshi Yusa, Taku Tsuchiya, Nagayoshi Sata, and Yasuo Ohishi	High-Pressure Phase Transition to the Gd ₂ S ₃ Structure in Sc ₂ O ₃ : A New Trend in Dense Structures in Sesquioxides	Inorganic Chemistry, 48 (2009) 7537-7543	7	2009
195	SPring-8	BL10XU	Ohishi, Hirao	Serena Margadonna, Yasuhiro Takabayashi, Yasuo Ohishi, Yoshikazu Mizuguchi, Yoshihiko Takano, Tomoko Kagayama, Takeshi Nakagawa, Masaki Takata, and Kosmas Prassides	Pressure Evolution of the Low-Temperature Crystal Structure and Bonding of the Superconductor FeSe ($T_c=37$ K)	Physical Review B, 80 (2009) 064506	4	2009
196	SPring-8	BL10XU	Ohishi, Hirao	Yasuhiro Takabayashi, Alexey Ganin, Peter Jeglic, Denis Arcon, Takumi Takano, Yoshihiro Iwasa, Yasuo Ohishi, Masaki Takata, Nao Takeshita, Kosmas Prassides, and Rosseinsky Matthew	The Disorder-Free Non-BCS Superconductor Cs ₃ C ₆₀ Emerges from an Antiferromagnetic Insulator Parent State	Science, 323 (2009) 1585-1590	6	2009
197	SPring-8	BL10XU	Ohishi, Hirao	Jesse Smith, Serge Desgreniers, John Tse, Jian Sun, Dennis Klug, and Yasuo Ohishi	High-Pressure Structures and Vibrational Spectra of Barium Fluoride: Results Obtained under Nearly Hydrostatic Conditions	Physical Review B, 79 (2009) 134104		2009
198	SPring-8	BL10XU	Ohishi, Hirao	Takeshi Sakai, Eiji Ohtani, Hidenori Terasaki, Naoki Sawada, Yusuke Kobayashi, Masaaki Miyahara, Masahiko Nishijima, Naohisa Hirao, Yasuo Ohishi, and Takumi Kikegawa	Fe-Mg Partitioning between Perovskite and Ferropiclsie in the Lower Mantle	American Mineralogist, 94 (2009) 921-925	5	2009
199	SPring-8	BL10XU	Ohishi, Hirao	Nathalie C. Gresty, Yasuhiro Takabayashi, Alexey Ganin, Martin T. McDonald, John B. Claridge, Duong Giap, Yoshikazu Mizuguchi, Yoshihiko Takano, Tomoko Kageyama, Yasuo Ohishi, Masaki Takata, Matthew J. Rosseinsky, Serena Margadonna, and Kosmas Prassides	Structural Phase Transitions and Superconductivity in Fe _{1.46} Se _{0.57} Te _{0.43} at Ambient and Elevated Pressures	Journal of the American Chemical Society, 131 (2009) 16944-16952	9	2009
200	SPring-8	BL10XU	Ohishi, Hirao	Hitoshi Yusa, Alexei Belik, Eiji Takayama-Muromachi, Naohisa Hirao, and Yasuo Ohishi	High-Pressure Phase Transitions in BiM O ₃ (M = Al, Ga, and In): <i>In situ</i> X-ray Diffraction and Raman Scattering Experiments	Physical Review B, 80 (2009) 214103		2009

201	SPring-8	BL10XU	Ohishi, Hirao	Masaki Mito, Yuki Komorida, Hideki Tsuruda, John Tse, Serge Desgreniers, Yasuo Ohishi, Alicea Leitch, Kristina Cvrkalj, Craig Robertson, and Richard Oaklay	Heavy Atom Ferromagnets under Pressure: Structural Changes and Magnetic Response	Journal of the American Chemical Society, 131 (2009) 16012-16013	2	2009
202	SPring-8	BL10XU	Ohishi, Hirao	Yasuo Izumi	Effective Removal of Low Concentrations of Arsenic and Lead and the Monitoring of Molecular Removal Mechanism at Surface	Environmental Research Journal, 3 (2009) 205-217	13	2009
203	SPring-8	BL10XU	Ohishi, Hirao	Lowell Miyagi, Sébastien Merkel, Takehiko Yagi, Nagayoshi Sata, Yasuo Ohishi, and Hans-Rudolf Wenk	Diamond Anvil Cell Deformation of CaSiO ₃ Perovskite up to 49 GPa	Physics of the Earth and Planetary Interiors, 174 (2009) 159-164	6	2009
204	SPring-8	BL10XU	Ohishi, Hirao	Yuki Asahara, Motohiko Murakami, Yasuo Ohishi, Naohisa Hirao, Nagayoshi Sata, and Kei Hirose	Sound Velocity Measurements in Water at High Pressures: Application to Water at Lower Mantle Conditions	Geochimica et Cosmochimica Acta, 73 (2009) A57		2009
205	SPring-8	BL10XU	Ohishi, Hirao	Tomoyuki Matsuda, Xiaojun Liu, Takayuki Shibata, Taisuke Kamioka, Yasuo Ohishi, and Yutaka Moritomo	Pressure-Induced Phase Transition in Zn-Fe Prussian Blue Lattice	Journal of the Physical Society of Japan, 78 (2009) 105002		2009
206	SPring-8	BL10XU	Ohishi, Hirao	Eiji Ohtani, Denis Andrault, Paul Asimow, Lars Stixrude, and Yanbin Wang	Advances in High-pressure Mineral Physics: From the Deep Mantle to the Core	Physics of the Earth and Planetary Interiors, 174 (2009) 1-2	2	2009
207	SPring-8	BL10XU	Ohishi, Hirao	Eiji Ohtani, Hidetoshi Asanuma, Takeshi Sakai, and Naohisa Hirao	Phase Relations and Compression of FeSi and FeNiSi Alloys: Implications for Silicon Content of the Core	Geochimica et Cosmochimica Acta, 73 (2009) A967		2009
208	SPring-8	BL10XU	Ohishi, Hirao	Hidenori Terasaki, Eiji Ohtani, Takeshi Sakai, Seiji Kamada, Yuuki Shibazaki, Hidetoshi Asanuma, Naohisa Hirao, Yasuo Ohishi, Nagayoshi Sata, Tatsuya Sakamaki, Akio Suzuki, and Kenichi Funakoshi	Hydrogen Incorporation to the Earth's Core	Geochimica et Cosmochimica Acta, 73 (2009) A1321		2009
11	SPring-8	BL13XU	Sakata	S. Nakashima, O. Sakata, Y. Nakamura, T. Kanashima, H. Funakubo, and M. Okuyama	X-ray diffraction study of polycrystalline BiFeO ₃ thin film under electric field	Appl. Phys. Lett. 93, 042907	3	2008
209	SPring-8	BL10XU	Ohishi, Hirao	Nagayoshi Sata, Hiroaki Ohfuji, Kei Hirose, Hisao Kobayashi, Yasuo Ohishi, and Naohisa Hirao	New High-Pressure B2 Phase of FeS above 180 GPa	American Mineralogist, 93 (2008) 492-494	3	2008
210	SPring-8	BL10XU	Ohishi, Hirao	Kenji Ohta, Kei Hirose, Thorne Lay, Nagayoshi Sata, and Yasuo Ohishi	Phase Transitions in Pyrolite and MORB at Lowermost Mantle Conditions: Implications for a MORB-rich Pile above the Core-mantle Boundary	Earth and Planetary Science Letters, 267 (2008) 107-117	11	2008
211	SPring-8	BL10XU	Ohishi, Hirao	Kenji Ohta, Suzue Onoda, Kei Hirose, Ryouyusuke Sinmyou, Katsuya Shimizu, Nagayoshi Sata, Yasuo Ohishi, and Akira Yasuhara	The Electrical Conductivity of Post-Perovskite in Earth's D" Layer	Science, 320 (2008) 89-91	3	2008
212	SPring-8	BL10XU	Ohishi, Hirao	Yusuke Seto, Daisuke Hamane, Takaya Nagai, and Kiyoshi Fujino	Fate of Carbonates within Oceanic Plate Subducted to the Lower Mantle and a Possible Mechanism of Diamond Formation	Physics and Chemistry of Minerals, 35 (2008) 223-229	7	2008
213	SPring-8	BL10XU	Ohishi, Hirao	Kazufusa Ishibashi, Kei Hirose, Nagayoshi Sata, and Yasuo Ohishi	Dissociation of CAS Phase in the Uppermost Lower Mantle	Physics and Chemistry of Minerals, 35 (2008) 197-200	4	2008

214	SPring-8	BL10XU	Ohishi, Hirao	Kei Hirose, and Thorne Lay	Discovery of Post-perovskite and New Views on the Core-mantle Boundary Region	Elements, 4 (2008) 183-189	7	2008
215	SPring-8	BL10XU	Ohishi, Hirao	Emiko Sugimura, Toshiaki Iitaka, Kei Hirose, Katsuyuki Kawamura, Nagayoshi Sata, and Yasuo Ohishi	Compression of H ₂ O Ice to 126 GPa and Implications for Hydrogen-bond Symmetrization: Synchrotron X-ray Diffraction Measurements and Density-Functional Calculations	Physical Review B, 77 (2008) 214103		2008
216	SPring-8	BL10XU	Ohishi, Hirao	Hitoshi Yusa, Taku Tsuchiya, Jun Tsuchiya, Nagayoshi Sata, and Yasuo Ohishi	α -Gd ₂ S ₃ -type Structure in In ₂ O ₃ : Experiments and Theoretical Confirmation of a High-Pressure Polymorph in Sesquioxide	Physical Review B, 78 (2008) 092107		2008
217	SPring-8	BL10XU	Ohishi, Hirao	Takahiro Matsuoka, Suzue Onoda, Masahiro Kaneshige, Yuki Nakamoto, Katsuya Shimizu, Tomoko Kagayama, and Yasuo Ohishi	Superconductivity and Crystal Structure of Lithium under High Pressure	Journal of Physics: Conference Series, 121 (2008) 052003	4	2008
218	SPring-8	BL10XU	Ohishi, Hirao	Yasuo Ohishi, Naohisa Hirao, Nagayoshi Sata, Kei Hirose, and Masaki Takata	Highly Intense Monochromatic X-ray Diffraction Facility for High-Pressure Research at SPring-8	High Pressure Research, 28 (2008) 163-173	11	2008
219	SPring-8	BL10XU	Ohishi, Hirao	Ryosuke Sinmyo, Kei Hirose, Daisuke Nishio-Hamane, Yusuke Seto, Kiyoshi Fujino, Nagayoshi Sata, and Yasuo Ohishi	Partitioning of Iron between Perovskite/Postperovskite and Ferropericlasite in the Lower Mantle	Journal of Geophysical Research, 113 (2008) B11204	11	2008
220	SPring-8	BL10XU	Ohishi, Hirao	Ryosuke Sinmyo, Haruka Ozawa, Kei Hirose, Akira Yasuhara, Noriaki Endo, Nagayoshi Sata, and Yasuo Ohishi	Ferric Iron Content in (Mg,Fe)SiO ₃ Perovskite and Post-perovskite at Deep Lower Mantle Conditions	American Mineralogist, 93 (2008) 1899-1902	4	2008
221	SPring-8	BL10XU	Ohishi, Hirao	Mathew Debessai, Takahiro Matsuoka, James Hamlin, Anup Gangopadhyay, James Schilling, Katsuya Shimizu, and Yasuo Ohishi	Superconductivity under High Pressure in the Binary Compound CaLi ₂	Physical Review B, 78 (2008) 214517		2008
222	SPring-8	BL10XU	Ohishi, Hirao	Hidetoshi Asanuma, Eiji Ohtani, Takeshi Sakai, Hidenori Terasaki, Seiji Kamada, Naohisa Hirao, Nagayoshi Sata, and Yasuo Ohishi	Phase Relations of Fe-Si Alloy up to Core Conditions: Implications for the Earth Inner Core	Geophysical Research Letters, 35 (2008) L12307		2008
223	SPring-8	BL10XU	Ohishi, Hirao	Taku Okada, Takehiko Yagi, and Ken Niwa	Plastic Deformations and Lattice Preferred Orientations in Post-Perovskite-type MgGeO ₃ Using a Diamond Anvil Cell	The Review of High Pressure Science and Technology, 18 (2008) 244-253	10	2008
224	SPring-8	BL10XU	Ohishi, Hirao	Jun Tsuchiya, Taku Tsuchiya, Asami Sano, and Eiji Ohtani	First Principles Prediction of New High-Pressure Phase of InOOH	Journal of Mineralogical and Petrological Sciences, 103 (2008) 116-120	5	2008
225	SPring-8	BL10XU	Ohishi, Hirao	Anil K. Singh, Hanns-Peter Liermann, Yuichi Akahama, Surendra K. Saxena, and Eduardo Menendez-Proupin	Strength of Polycrystalline Coarse-Grained Platinum to 330 GPa and of Nanocrystalline Platinum to 70 GPa from High-Pressure X-Ray Diffraction Data	Journal of Applied Physics, 103 (2008) 063524	8	2008
226	SPring-8	BL10XU	Ohishi, Hirao	Motohiko Murakami, Sinogeikin Stanislav, Jay Bass, Nagayoshi Sata, Yasuo Ohishi, and Kei Hirose	Sound Velocity of MgSiO ₃ Post-Perovskite Phase: A Constraint on the D'' Discontinuity	Earth and Planetary Science Letters, 259 (2007) 18-23	6	2007

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