SACLA

2019B Performed Proposals

1Shift =12Hours

S/N	Proposal No.	Performed Proposal Title	Project Leader	Affiliation	Country	Type of Proposal	Beamline	Performed Shift
1	2019B8001	Charge density wave in the clean limit: exploring the intrinsic high-field CDW in YBa2Cu4O8	Jun-Sik Lee	SLAC National Accelerator Laboratory	USA	SACLA General Proposal (Non-proprietary)	BL2	5
2	2019B8004	Dislocation dynamics and carbon diffusion in steels using femto－second X-ray diffraction	Mitsuharu Yonemura	Nippon Steel Corporation	Japan	SACLA General Proposal (Non-proprietary)	BL3	3
3	2019B8005 2)	Time-resolved crystallography of ultrafast light driven DNA repair by photolyases	Yoshitaka Bessho	Academia Sinica	Taiwan, ROC	SACLA General Proposal (Non-proprietary)	BL2	3.5
4	2019B8007	Study of redox state in metal protein crystal by simultaneous measurements of X-ray spectroscopy and SFX	Yasufumi Umena	Okayama University	Japan	SACLA General Proposal (Non-proprietary)	BL2	5
5	2019B8008	Triplet energy transfer induced disulfide cleavage of a photosensitizer protein captured by XFEL	Jiangyun Wang	Institute of Biophysics	China	SACLA General Proposal (Non-proprietary)	BL2	2
6	2019B8009	Visualization of metalloenzyme-catalyzed reactions using photosensitive caged oxygen molecule	Takehiko Tosha	RIKEN	Japan	SACLA General Proposal (Non-proprietary)	BL2	5
7	2019B8010	Ultrafast magnetization dynamics of XFEL-induced spin-polarized states (II)	Motohiro Suzuki	Japan Synchrotron Radiation Research Institute	Japan	SACLA General Proposal (Non-proprietary)	BL3	5
8	2019B8011	Q-dependent dynamics of aqueous salt solution using split-and-delay X-ray speckle visibility spectroscopy	Yuya Shinohara	Oak Ridge National Laboratory	USA	SACLA General Proposal (Non-proprietary)	BL3	6.917
9	2019B8012	Generation and control of attosecond XFEL pulses via saturable absorption	Ichiro Inoue	RIKEN	Japan	SACLA General Proposal (Non-proprietary)	BL3	5
10	2019B8015	Ultrafast band dynamics of GaAs induced by XFEL excitation studied by near-infrared transient-absorption/reflection spectroscopy	Yoshihito Tanaka	University of Hyogo	Japan	SACLA General Proposal (Non-proprietary)	BL3	5
11	2019B8016 1)	Single Particle Imaging with 100-nm Focused XFEL by Pulsed Coherent X-Ray Solution Scattering	Yoshinori Nishino	Hokkaido University	Japan	SACLA General Proposal (Non-proprietary)	BL2	7
12	2019B8017	XFEL-XRD observations of highly shock-compressed diamond at TPa pressures	Norimasa Ozaki	Osaka University	Japan	SACLA General Proposal (Non-proprietary)	BL3	5
13	2019B8019	Ultrafast pathways to “hidden” lattice orders created by a single-shot light pulse	Haidan Wen	Argonne National Lab	USA	SACLA General Proposal (Non-proprietary)	BL3	5
14	2019B8020 1)	High-resolution structure of photosystem II in the intermediate state of the oxygen-evolving and water-splitting reaction using fixed-target protein crystallography	Michihiro Suga	Okayama University	Japan	SACLA General Proposal (Non-proprietary)	BL2	5
15	2019B8021	Multi-pulse optical control of structural dynamics using TR-SFX	Jasper vanThor	Imperial College London	UK	SACLA General Proposal (Non-proprietary)	BL3	3
16	2019B8022	Exploring Photoinduced Directional Charge Transfer Pathways in a Bimetallic Cu-Os Complex By Ultrafast X-ray Absorption Spectroscopy	Michael Mara	Northwestern University	USA	SACLA General Proposal (Non-proprietary)	BL3	5
17	2019B8023	The evolution of Neel order in transition metal oxides thin film upon transient photodoping	Jiarui Li	Massachusetts Institute of Technology	USA	SACLA General Proposal (Non-proprietary)	BL3	5
18	2019B8025	Femtosecond time-resolved and high-resolution X-ray solution scattering study for understanding solvent reorganization processes during photo-induced electron transfer reaction	Shin-ichi Adachi	High Energy Accelerator Research Organization	Japan	SACLA General Proposal (Non-proprietary)	BL3	5
19	2019B8026 1)	Time-resolved Crystallography of Photosynthetic reactions by use of the XFEL at SACLA	Raimund Fromme	Arizona State University	USA	SACLA General Proposal (Non-proprietary)	BL2	5
20	2019B8028 1)	Structural analysis of intermediate states of the photosystem II water-splitting reaction by time-resolved structural analysis using pump-probe serial femtosecond crystallography	Jian-Ren Shen	Okayama University	Japan	SACLA General Proposal (Non-proprietary)	BL2	5
21	2019B8029	Rapid structure determination system for drug-target proteins using the X-ray free electron laser	So Iwata	RIKEN	Japan	SACLA General Proposal (Non-proprietary)	BL2	3
22	2019B8032 1)	Properties of shock-generated magmas at extreme conditions as a function of time	Takuo Okuchi	Okayama University	Japan	SACLA General Proposal (Non-proprietary)	BL3	2
23	2019B8033	Research on high-quality direct manufacturing by extremely high density EUV pulse	Kazuyuki Sakaue	The University of Tokyo	Japan	SACLA General Proposal (Non-proprietary)	BL1	7
24	2019B8034	Nonlinear absorption spectroscopy in K-shell core-hole state	Kenji Tamasaku	RIKEN	Japan	SACLA General Proposal (Non-proprietary)	BL3	5
25	2019B8035	Filming electronic and structural dynamics in molecules containing heavy elements by site-selective X-ray absorption and time-resolved ion momentum multiple coincidence spectroscopy	Hironobu Fukuzawa	Tohoku University	Japan	SACLA General Proposal (Non-proprietary)	BL3	5
26	2019B8036	Thermal description of the magnetization dynamics in RE-TM metal alloys.	Souliman El Moussaoui	The University of Tokyo	Japan	SACLA General Proposal (Non-proprietary)	BL1	5
27	2019B8038	The atomic structure of size and shape controlled catalytic Pt nanocrystals – developing an XFEL crystallography of small unit cell structures	Bo Iversen	University of Aarhus	Denmark	SACLA General Proposal (Non-proprietary)	BL3	5
28	2019B8039	Time-resolved pump-probe serial crystallography of visual rhodopsin	Thomas Grant	University at Buffalo	USA	SACLA General Proposal (Non-proprietary)	BL3	5
29	2019B8040	Time-resolved Serial Femtoseconds Crystallography (TR-SFX) of non-canonical rhodopsins	Osamu Nureki	The University of Tokyo	Japan	SACLA General Proposal (Non-proprietary)	BL2	2
30	2019B8043	Development of versatile methods for protein structural dynamics analysis using X-ray free electron lasers	Eriko Nango	Kyoto University	Japan	SACLA General Proposal (Non-proprietary)	BL2	3
31	2019B8044	Chemical bond activation by high-valent intermediates in metalloenzymes: Combined XES and XRD at room temperature targeting intermediate Q in methane monooxygenase	Jan Kern	Lawrence Berkeley National Laboratory	USA	SACLA General Proposal (Non-proprietary)	BL2	5
32	2019B8045	Investigation of the Mott insulator-to-metal transition under high electric field THz pulses	Yuya Kubota	Japan Synchrotron Radiation Research Institute	Japan	SACLA General Proposal (Non-proprietary)	BL3	5
33	2019B8046	Observation of nonlinear atomic ionization processes with inner-shell electrons	Mizuho Fushitani	Nagoya University	Japan	SACLA General Proposal (Non-proprietary)	BL1	7
34	2019B8048	Structural evaluation of Tetrabutylammonium bromide (TBAB) supercooled aqueous solution	Hironobu Machida	Panasonic Corporation	Japan	SACLA General Proposal (Non-proprietary)	BL3	3
35	2019B8049	Time-resolved serial femtosecond crystallography to reveal dynamical properties of oncogene product H-Ras protein using light protecting group, caged GTP	Fumi Shima	Kobe University	Japan	SACLA General Proposal (Non-proprietary)	BL2	2
36	2019B8050	Coherent diffraction imaging of reacting nanoparticles in solution using a 100-nm-focused femtosecond XFEL pulse.	Takashi Kimura	The University of Tokyo	Japan	SACLA General Proposal (Non-proprietary)	BL2	5
37	2019B8051	Development of precisely controlled hard x-ray laser with resonant Bragg diffraction condition	Hitoki Yoneda	The University of Electro-Communications	Japan	SACLA General Proposal (Non-proprietary)	BL3	5
38	2019B8053	Real-time observation of the mechanism of chemical reactions promoted within the designed protein crystals by serial femtosecond crystallography.	Takafumi Ueno	Tokyo Institute of Technology	Japan	SACLA General Proposal (Non-proprietary)	BL2	3
39	2019B8054	Time-resolved Coulomb explosion imaging following core-level photoionization in disubstituted methane molecules	Kiyoshi Ueda	Tohoku University	Japan	SACLA General Proposal (Non-proprietary)	BL1	5
40	2019B8057	Investigations of phase transitions in tantalum	Bruno Albertazzi	LULI, Ecole Polytechnique	France	SACLA General Proposal (Non-proprietary)	BL3	2
41	2019B8058	Momentum resolved CDW decoupling in photoexcited high Tc superconductors	Daniel Gabriel Mazzone	Brookhaven National Laboratory	USA	SACLA General Proposal (Non-proprietary)	BL3	5
42	2019B8059	Magnetization dynamics of Co/Pt probed by time-resolved x-ray magneto-optical Kerr effect measurement	Kohei Yamamoto	National Institutes of Natural Sciences	Japan	SACLA General Proposal (Non-proprietary)	BL1	7
43	2019B8060	Dynamics of photo-induced magnetization in ferromagnetic iron oxide thin films	Masaki Kobayashi	The University of Tokyo	Japan	SACLA General Proposal (Non-proprietary)	BL1	7
44	2019B8062	Higher-Order X-ray - Optical Wave Mixing	Matthias Fuchs	University of Nebraska Lincoln	USA	SACLA General Proposal (Non-proprietary)	BL3	5
45	2019B8063	Time resolved Coulomb explosion imaging of multi-channel non-adiabatic photodissociation dynamics in iodomethane and iodobenzene	Ruaridh Forbes	Stanford Linear Accelerator Centre	USA	SACLA General Proposal (Non-proprietary)	BL1	7
46	2019B8064	Impact of Electron Phonon Coupling on SnTe Lattice Instability	David Reis	Stanford University/SLAC National Accelerator Laboratory	USA	SACLA General Proposal (Non-proprietary)	BL3	5
47	2019B8065	Split-pulse Femtosecond X-ray Fourier Transform Holography imaging	Wojciech Roseker	Deutsches Elektronen-Synchrotron	Germany	SACLA General Proposal (Non-proprietary)	BL3	5
48	2019B8066	Comparison of the Bulk and Surface Structure of Solid State Electrolyte Materials at the Lithium K-edge with Soft X-ray Second Harmonic Generation	Craig Schwartz	UC Berkeley	USA	SACLA General Proposal (Non-proprietary)	BL1	9
49	2019B8067	Time-Resolved X-ray Spectroscopy Combined with Crystallography of Photosystems I and II at Room Temperature	Junko Yano	Lawrence Berkeley National Laboratory	USA	SACLA General Proposal (Non-proprietary)	BL2	5
50	2019B8070	Characterization of the Non-Thermal Graphitization of Diamond with Two-color X-ray Pulses	Philip Heimann	SLAC National Accelerator Laboratory	USA	SACLA General Proposal (Non-proprietary)	BL3	5
51	2019B8071	Exploring Laser Astrophysics with coherent x-ray: Basic experiment for the realization of collisionless Weibel shock generation and particle acceleration (II)	Youichi Sakawa	Osaka University	Japan	SACLA General Proposal (Non-proprietary)	BL2	5
52	2019B8072	Demonstration of incoherent X-ray fluorescence imaging with high spatial resolution	Taisia Gorkhover	SLAC National Accelerator Laboratory	USA	SACLA General Proposal (Non-proprietary)	BL3	5
53	2019B8073	Seeded Two-Color Stimulated X-ray Emission Spectroscopy on Mn Solutions	Uwe Bergmann	SLAC National Accelerator Laboratory	USA	SACLA General Proposal (Non-proprietary)	BL3	4
54	2019B8075	Ultrafast Control of lattice entropy in a photo-induced phase transition	Mariano Trigo	SLAC National Accelerator Laboratory	USA	SACLA General Proposal (Non-proprietary)	BL3	5
55	2019B8076	High-resolution characterization of high-intensity laser-irradiated dense-plasmas using time-resolved grazing-incidence small-angle x-ray scattering (TR-GISAXS)	Motoaki Nakatsutsumi	European XFEL, GmbH	Germany	SACLA General Proposal (Non-proprietary)	BL2	2.333
56	2019B8077 1)	Real-space molecular reorientation dynamics for the state-of-the-art scenario of colossal barocaloric effects	Yanna Chen	Northwestern University	USA	SACLA General Proposal (Non-proprietary)	BL3	5

[1] SACLA Research Proposals for Complementary Use with SPring-8, J-PARC/MLF or Supercomputers (public computational resource of HPCI including the K computer).

[2] Including the feasibility check beamtime (FCBT) of 0.5 shifts in performed shift.