

S/N	Proposal No.	Proposal Title	Project Leader	Affiliation	Country	Type of Proposal	Beamline	Performed Shift
1	2020A8001	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
2	2020A8002	Understanding instabilities in supernovae remnants in the laboratory with ultra-high resolution X-ray diagnostics.	Michel Koenig	Centre National de la Recherche Scientifique	France	SACLA General Proposal (Non-proprietary)	BL3	4
3	2020A8003 <sup>1)</sup>	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	6
4	2020A8004	XFEL-XDI experiment for non-crystalline particles after treatment to increase nominal scattering cross-sections for efficient phase-retrieval analyses	Masayoshi Nakasako	Keio University	Japan	SACLA General Proposal (Non-proprietary)	BL2	4
5	2020A8005	Study of redox state in metal protein crystal by simultaneous measurements of X-ray spectroscopy and SFX	Yasufumi Umena	Jichi Medical University	Japan	SACLA General Proposal (Non-proprietary)	BL2	6
6	2020A8012	Fate of a charge density wave (CDW) in the clean limit: exploring the intrinsic high-field CDW in YBa <sub>2</sub> Cu <sub>4</sub> O <sub>8</sub> (YBCO-248)	Jun-Sik Lee	SLAC National Accelerator Laboratory	USA	SACLA General Proposal (Non-proprietary)	BL2	5
7	2020A8013 <sup>1,2)</sup>	Time-resolved SFX analysis of structural changes in the copper amine oxidase reaction	Takehiko Murakawa	Osaka Medical College	Japan	SACLA General Proposal (Non-proprietary)	BL2	2.5
8	2020A8014	Ultrafast magnetization dynamics of XFEL-induced spin-polarized states (III)	Motohiro Suzuki	Japan Synchrotron Radiation Research Institute	Japan	SACLA General Proposal (Non-proprietary)	BL3	5
9	2020A8015	Femtosecond time-resolved XAFS study on photo-induced electron transfer dynamics of Ru-Re supramolecular complex photocatalyst	Shin-ichi Adachi	High Energy Accelerator Research Organization	Japan	SACLA General Proposal (Non-proprietary)	BL3	5
10	2020A8016	Study on electronic state of nickel compounds using resonant two-photon absorption spectroscopy	Kenji Tamasaku	RIKEN	Japan	SACLA General Proposal (Non-proprietary)	BL3	7
11	2020A8017	Study of interaction between XFEL and plasma produced by intense laser	Yuichi Inubushi	Japan Synchrotron Radiation Research Institute	Japan	SACLA General Proposal (Non-proprietary)	BL2	7
12	2020A8018	Excited state dynamics of fluorescent proteins by engaging X-ray free electron laser	Hideaki Mizuno	KU Leuven	Belgium	SACLA General Proposal (Non-proprietary)	BL3	3
13	2020A8019	Tracing the elemental magnetization dynamics of TbFe, TbCo rare earth-transition metal alloys with time resolved resonant MOKE	Souhman El Moussaoui	The University of Tokyo	Japan	SACLA General Proposal (Non-proprietary)	BL1	8
14	2020A8020	Nobel spectroscopy development of laser assisted inner-shell photoelectron using two photons including SX-FEL	Tatsuo Gejo	University of Hyogo	Japan	SACLA General Proposal (Non-proprietary)	BL1	7
15	2020A8021	Shortening XFEL duration through saturable absorption	Ichiro Inoue	RIKEN	Japan	SACLA General Proposal (Non-proprietary)	BL3	5
16	2020A8022	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
17	2020A8024	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	8
18	2020A8025	Study on atomic scale fluctuation in matter via duration-controlled X-ray photon correlation spectroscopy	Taito Osaka	RIKEN	Japan	SACLA General Proposal (Non-proprietary)	BL3	5
19	2020A8026	Development of versatile methods for protein structural dynamics analysis using X-ray free electron lasers	Eriko Nango	Tohoku University	Japan	SACLA General Proposal (Non-proprietary)	BL2	3
20	2020A8028 <sup>1)</sup>	Exciton-Lattice Coupling in Lead Halide Perovskite Nanocrystals	Nuri Yazdani	ETH Zurich	Switzerland	SACLA General Proposal (Non-proprietary)	BL3	5
21	2020A8030	Structural analysis of reaction intermediate in metalloenzyme-catalyzed reaction using photo-sensitive caged oxygen	Takehiko Tосha	RIKEN	Japan	SACLA General Proposal (Non-proprietary)	BL2	5
22	2020A8033	XFEL-XRD observations of diamond under multiple shock compression to tera-Pascal pressures	Norimasa Ozaki	Osaka University	Japan	SACLA General Proposal (Non-proprietary)	BL3	7
23	2020A8034	Observation of chemical reaction by time-resolved serial crystallography	Takafumi Ueno	Tokyo Institute of Technology	Japan	SACLA General Proposal (Non-proprietary)	BL2	3
24	2020A8036	Development of new type of hard x-ray laser with XFEL pumping	Hitoki Yoneda	The University of Electro-Communications	Japan	SACLA General Proposal (Non-proprietary)	BL3	5
25	2020A8039 <sup>2)</sup>	Signal generation in Bacteriophytochromes studied by Serial Femtosecond Crystallography	Sebastian Westenhoff	University of Gothenburg	Sweden	SACLA General Proposal (Non-proprietary)	BL3	0.5
26	2020A8040	Unraveling the nature and the formation time of excitons and polarons in photoexcited lead-free halide perovskite nanocrystals with femtosecond X-ray absorption spectroscopy and scattering	Sophie Canton	ELI-ALPS	Hungary	SACLA General Proposal (Non-proprietary)	BL3	5
27	2020A8043	Observation of ultrafast dynamics of charge density wave order in LaAgSb <sub>2</sub>	Yoshikazu Tanaka	RIKEN	Japan	SACLA General Proposal (Non-proprietary)	BL3	5
28	2020A8044	Coherent diffraction imaging of reacting nanoparticles in solution using a femtosecond 100-nm focused XFEL pulse.	Takashi Kimura	The University of Tokyo	Japan	SACLA General Proposal (Non-proprietary)	BL2	7
29	2020A8045 <sup>1)</sup>	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	8
30	2020A8046	Ultrafast solvation dynamics probed by femtosecond X-ray absorption (fs-XAS), X-ray emission (fs-XES) and X-ray diffuse scattering (fs-XDS) experiments.	Majed Chergui	Ecole Polytechnique Fédérale de Lausanne	Switzerland	SACLA General Proposal (Non-proprietary)	BL3	7
31	2020A8047	Structural investigation of liquid silicates over 100 GPa using high power lasers combined with SACLA FEL	Guillaume Morard	ISTerre, CNRS, University Grenoble Alpes	France	SACLA General Proposal (Non-proprietary)	BL3	4
32	2020A8048 <sup>1)</sup>	Properties of shock-generated magmas at extreme conditions as a function of time II	Takuo Okuchi	Kyoto University	Japan	SACLA General Proposal (Non-proprietary)	BL3	5
33	2020A8049	Electron-ion coincidence spectroscopy of molecular double-core-hole decay processes	Mizuho Fushitani	Nagoya University	Japan	SACLA General Proposal (Non-proprietary)	BL1	7
34	2020A8055 <sup>2)</sup>	Time-resolved crystallography of ultrafast light driven DNA repair by photolyases	Yoshitaka Bessho	Academia Sinica	Taiwan, ROC	SACLA General Proposal (Non-proprietary)	BL2	5.5
35	2020A8056	Investigation of the photo-induced superconductivity by phonon excitation	Yuya Kubota	RIKEN	Japan	SACLA General Proposal (Non-proprietary)	BL3	5
36	2020A8058	Time-resolved Serial Femtosecond Crystallography (TR-SFX) of non-canonical rhodopsins	Osamu Nureki	The University of Tokyo	Japan	SACLA General Proposal (Non-proprietary)	BL2	3
37	2020A8059 <sup>1)</sup>	Structural analysis of intermediate states of the photosystem II water-splitting reaction by time-resolved structural analysis	Jian-Ren Shen	Okayama University	Japan	SACLA General Proposal (Non-proprietary)	BL2	5
38	2020A8060	Optical control of a superconducting oxide heterostructure	Rohit Prasankumar	Los Alamos National Laboratory	USA	SACLA General Proposal (Non-proprietary)	BL3	5
39	2020A8062	Understanding structural distortions in the formation of self-trapped excitons in white-light emitting halide perovskites via UV pump-XFEL probe spectroscopy	Nicholas Weadock	SLAC National Accelerator Laboratory	USA	SACLA General Proposal (Non-proprietary)	BL3	5
40	2020A8063	Ultra-high-speed magnetic response of tri-layer quantum well structure using ferromagnetic semiconductor	Masaki Kobayashi	The University of Tokyo	Japan	SACLA General Proposal (Non-proprietary)	BL1	8
41	2020A8064 <sup>2)</sup>	Dynamic structure changes in the excited state of a photosensitizer protein captured by XFEL	Jiangyun Wang	Chinese Academy of Sciences	China	SACLA General Proposal (Non-proprietary)	BL2	5.5
42	2020A8105	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
43	2020A8106 <sup>1)</sup>	Damage-free nano-level imaging of fuel cell catalyst layer materials	Hideto Imai	NISSAN ARC, LTD.	Japan	SACLA General Proposal (Non-proprietary)	BL2	3
44	2020A8111	Development of wavelength-scale focusing system for soft x-ray free-electron laser pulses	Hiroto Motoyama	The University of Tokyo	Japan	SACLA General Proposal (Non-proprietary)	BL1	7
45	2020A8112	Time-resolved Serial Femtosecond Crystallography (TR-SFX) of non-canonical rhodopsins	Osamu Nureki	The University of Tokyo	Japan	SACLA General Proposal (Non-proprietary)	BL2	5
46	2020A8114	Soft X-ray transmission imaging with ultrashort pulse illumination using high-precision Wollmer mirrors	Satoru Egawa	RIKEN	Japan	SACLA General Proposal (Non-proprietary)	BL1	9
47	2020A8116	Observation of OH radical in water by soft x-ray absorption spectroscopy in transmission mode	Hiroshi Iwayama	National Institutes of Natural Sciences	Japan	SACLA General Proposal (Non-proprietary)	BL1	7
48	2020A8117	Ultrafast X-ray photon correlation spectroscopy	Wojciech Roseker	Deutsches Elektronen-Synchrotron	Germany	SACLA General Proposal (Non-proprietary)	BL3	5
49	2020A8120	Data collection from sub-micron protein crystals with self-seeded XFEL	Kunio Hirata	RIKEN	Japan	SACLA General Proposal (Non-proprietary)	BL3	5
50	2020A8122	Photo-induced magnetization dynamics of Co/PI 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	5
51	2020A8124	Single Particle Imaging of ribosomes using 100-nm Focused XFEL	Yoshinori Nishino	Hokkaido University	Japan	SACLA General Proposal (Non-proprietary)	BL2	3
52	2020A8128	Structural analysis on the reaction intermediate of monooxygenase using caged compound	Takehiko Tосha	RIKEN	Japan	SACLA General Proposal (Non-proprietary)	BL2	3
53	2020A8131	Development of sub-10 nm XFEL focusing system based on novel imaging mirror optics	Kazuto Yamauchi	Osaka University	Japan	SACLA General Proposal (Non-proprietary)	BL3	5
54	2020A8135	Technical development of heterodyne detections for soft X-ray nonlinear spectroscopy	Iwao Matsuda	The University of Tokyo	Japan	SACLA General Proposal (Non-proprietary)	BL1	4

<sup>1)</sup> SACLA Research Proposals for Complementary Use with Spring-8, J-PARC/MLF or HPCI including the K computer / the supercomputer Fugaku.

<sup>2)</sup> Including the feasibility check beamtime (FCBT) of 0.5 shifts in performed shift.