

105 projects were adopted.

(Specified CRP:5 • General A:1 • General B:57 • General C:27 • International A:2 • International B:9 • International Workshop:2 • WoI

Adoption No.	Research Category	Research Subject	Project Leader	Name of Institute	MSL Researcher
1	General B	Development of oxides eutectic EBC for carbides	Shunkichi UENO	College of Engineering, Nihon University	T. Akatsu
2	General B	Development of Characterization Technique of Thermal Shock Fracture Mechanism in Ceramics	Shuichi WAKAYAMA	Graduate School of Science and Engineering, Tokyo Metropolitan University	T. Akatsu
3	General B	Development of bulky carbon-alumina nanocomposite with high conductivity and mechanical durability	Yasuto HOSHIKAWA	Institute of Multidisciplinary Research for Advanced Materials (IMRAM), Tohoku University	T. Akatsu
4	General B	Preparation and properties of magnetized porous ceramics by using magnetic fluid	Kazumasa NAKAMURA	Faculty of Symbiotic System Science Fukushima University	T. Akatsu
5	General C	Carbonization behavior of metal ion dispersed cellulose derivatives	Naoya MIYAJIMA	Center for Instrumental Analysis University of Yamanashi	T. Akatsu
6	General C	Structure and magnetism of nanographene grown on nanodiamond particle	Kazuyuki TAKAI	Hosei University Faculty of Bioscience and Applied Chemistry	T. Akatsu
7	Int'l B	Further exploration for new multiferroic material under high pressure	Youwen LONG	Institute of Physics Chinese Academy of Sciences	M. Azuma
8	General B	Higher-order structures and their functionalities in functional materials	Shigeo MORI	Osaka Prefecture University	M. Azuma
9	General B	Detailed structural analysis and huge ferroelectric response of B-site substituted BiFeO ₃ multiferroics prepared at ambient pressure and low temperature	Manabu GOMI	Nagoya Institute of Technology Graduate School of Engineering	M. Azuma
10	General B	Fabrication of thermal expansion adjustable composites filled with giant negative thermal expansion materials	Koshi TAKENAKA	Faculty of Engineering Nagoya University	M. Azuma
12	General B	Control of thermal expansion in transition metal oxides containing unusual high valence ions	Ikuya YAMADA	Nanoscience and Nanotechnology Research Center Research Institutes for the Twenty-First Century, Osaka Prefecture University	M. Azuma
13	Int'l WS	International Workshop on the Dynamic Response of Materials against the Hyper Velocity Impact and Explosion Phenomena.	Masahide KATAYAMA	ITOCHU Techno-Solutions Corporation Science & Engineering, Systems Division	T. Ato
14	Int'l B	Shock wave processing of type 3 chondrites	Eric QUIRICO	University Grenoble 1 (France)	T. Ato
15	General B	A study of transformation from carbon materials to amorphous diamond under shock-compression	Keisuke NIWASE	Hyogo University of Teacher Education	T. Ato
15.1	General C	Shock compression of graphite in cast iron	Tomotaka HOMAE	Toyama National College of Technology Center for International Education and Research	T. Ato
16	General B	Structure change of amino acid and amino acid - silica gel complex by shock and static compression experiments and its applications	Masayuki OKUNO	College of Science and Technology Kanazawa University	T. Ato
16.1	General C	Isotopic and elemental fractionation of noble gases during impact degassing of Earth's potential precursors: Implication on the origin of terrestrial atmosphere	Hikaru YABUTA	Osaka University	T. Ato
17	General C	Effect of shock impact on the Fe-based intermetallic compound	Tetsuji SAITO	Chiba Institute of Technology	T. Ato
18	General C	Development of solid particle accelerator over 10km/s	Masahito TAGAWA	Graduate School of Engineering Kobe University	T. Ato
19	General C	Research on Electronic Phases of Covalent Crystal using Extreme Environment	Yoichi KAMIHARA	Faculty of Science and Technology Keio University	T. Ato
20	General B	Nonlinear optical spectroscopy in oxide ceramics without inversion symmetry	Yoichi OKIMOTO	Graduate School of Science and Engineering Tokyo Institute of Technology	M. Itoh
21	General B	Study on the Pb(Mg _{1/3} Nb _{2/3})TiO ₃ -PbTiO ₃ relaxor ferroelectrics	Desheng FU	Department of Electronics and Materials Science Shizuoka University	M. Itoh
22	General C	Preparation of perovskite phosphor thin films with atomically flat surface	Hiroshi TAKASHIMA	Electronics and Photonics Research Institute National Institute of Advanced Industrial Science and Technology	M. Itoh
23	General C	Quantum Properties and Emergent Functions in Transition Metal Complex Compounds	Masanori MATOBA	Faculty of Science and Technology Keio University	M. Itoh
24	General B	Precise structure analyses of PbTiO ₃ and ferroelectric-dielectric phase transition	Akira YOSHIASA	Graduate School of Science and Technology Kumamoto University	M.Okube
25	General B	Precise crystal structure and interatomic interaction in garnet fluorides by single crystal X-ray diffraction	Akihiko NAKATSUKA	Graduate School of Science and Engineering Yamaguchi University	M.Okube
26	General C	Creating Titanate, Niobate and Tantalate, used as precursors aqueous phase synthesized nanosheets	Daisuke YOSHIOKA	Kawasaki Medical School	K. Katsumata
27	General C	Preparation of zeolite composites with high environmental purification properties	Hirota MAEDA	Center for Fostering Young and Innovative Researchers, Nagoya Institute of Technology	K. Katsumata

28	General C	Studies on the photocatalytic properties of layered double hydroxide	Ryo SASAI	Interdisciplinary Graduate School of Science and Engineering, Shimane University	K. Katsumata
29	General C	Study on catalytic performance over metal-supported solid catalyst with various polymers	Shun NISHIMURA	Japan Advanced Institute of Science and Technology, School of Materials Science	K. Kamata
30	General C	Application of 3D-ordered porous Mo-oxides as acid catalysts	Masahiro SADAKANE	Graduate School of Engineering Hiroshima University	K. Kamata
31	General C	Functionalization of metal nanoparticles by coating with thin metal oxide films	Yukina TAKAHASHI	Faculty of Engineering Kyushu University	K. Kamata
32	Int'l WS	The Eighth International Conference on the Science and Technology for Advanced Ceramics (STAC8)	Koichi KAJIHARA	Department of Applied Chemistry Graduate School of Urban Environmental Sciences, Tokyo Metropolitan University	T. Kamiya
33	WS	Workshop on ceramics processing for excellent function development	Naoki WAKIYA	Graduate School of Engineering Shizuoka University	T. Kamiya
34	General C	Electrical Characteristic Analysis and New Application Proposal of Amorphous Oxide Thin-Film Transistors	Mutsumi KIMURA	Ryukoku University Department of Electronics and Informatics	T. Kamiya
35	Specified	Development of unusual atomic structures in inorganic materials and related new functionalities	Toshio KAMIYA	Materials and Structures Laboratory Tokyo Institute of Technology	T. Kamiya
36	General C	Investigation of rare earth ions doped in perovskite phosphor using SQUID	Tatsuya SHIRAKAMI	Faculty of Science and Technology RYUKOKU University	H. Kawaji
37	General C	High-Temperature X-ray Diffraction Study of K-Substituted CaWO ₄	Shigeomi TAKAI	Graduate School of Energy Science Kyoto University	H. Kawaji
38	Int'l B	Experimental observation and manipulation of exotic quantum matters.	Yulin CHEN	Oxford University	T. Sasagawa
39	Int'l B	Study of collective behavior of electrons in the vicinity of quantum phase transitions	Christos PANAGOPOULOS	University of Crete and Nanyang Technological University	T. Sasagawa
40	General B	Cyclotron resonance study of Dirac cone electrons in a candidate substance Bi ₂ Se ₃ for topological insulator	Susumu OKUBO	Molecular Photoscience Research Center Kobe University	T. Sasagawa
41	General B	Study of pressure-induced topological phase transition in layered Rashba materials BiTeX (X = Cl, Br, I)	Ayako OHMURA	Center for Transdisciplinary Research	T. Sasagawa
42	General B	Structural refinements of mantle minerals under high-temperature and/or high-pressure conditions using single crystal X-ray diffraction methods.	Takahiro KURIBAYASHI	Graduate School of Science Tohoku University	S. Sasaki
43	General B	Fabrication of tetragonal zirconia nanoceramics by colloidal processing	Michiyuki YOSHIDA	Department of Materials Science and Technology Faculty of Engineering, Gifu University	Y. Shinoda
44	General C	Analysis of microstructure formation mechanism of pseudobrookite-type oxides	Yoshikazu SUZUKI	Faculty of Pure and Applied Sciences University of Tsukuba	Y. Shinoda
45	Int'l B	Functional interfaces at strongly polar oxides, nitrides and oxide/metal systems	K. Vlado LAZAROV	Department of Physics University of York	T. Susaki
46	Int'l A	Electric field controlled magnetic domain wall motion	Sebastiaan van DIJKEN	Department of Applied Physics Aalto University	T. Taniyama
47	General B	Effect of stresses on magnetic properties of magnetic materials.	Takayuki ISHIBASHI	Nagaoka University of Technology School of Engineering	T. Taniyama
48	General B	Study on self-assembled semiconductor quantum dot for semiconductor nanospintronics devices	Minoru YONETA	Okayama University of Science	T. Taniyama
49	Specified	Emerging functions in nanostructured materials for spin, electronic, and photonic devices	Tomoyasu TANIYAMA	Materials and Structures Laboratory Tokyo Institute of Technology	T. Taniyama
50	General B	Elucidation of formation mechanism of superacid sites formed on molecular metal oxide clusters supported on metal oxides	Yuichi KAMIYA	Research Faculty of Environmental Science Hokkaido University	K. Nakajima
51	General C	Study on characterization of Nb-containing mesoporous material	Masataka OGASAWARA	Department of Applied Chemistry Graduate School of Engineering and Resource Science Akita University	K. Nakajima
52	General B	Preparation of nanoparticle colloids of carbon materials and their physicochemical properties.	Tsuyoshi ASAH	Graduate School of Science and Engineering Department of Material Science and Biotechnology	K. Nakamura
53	General C	Picosecond time-resolved conductivity measurement in semiconductor using photo-switch method	Kazuhiro OHKAWA	Tokyo University of Science department of Applied Physics	K. Nakamura
54	General C	Preparation of inorganic nanoparticles by laser ablation in liquid	Hiroyuki WADA	Tokyo Institute of Technology Department of Innovative Engineering Materials	K. Nakamura
55	Specified	Studies of the Correlation between the Structure and Properties of Functional Materials	Kazutaka NAKAMURA	Materials and Structures Laboratory Tokyo Institute of Technology	K. Nakamura
55.1	General C	Synthesis and Characterization of Nevel Tin Oxides Under High Pressure	Nobuhiro KUMADA	University of Yamanashi Department of Research Interdisciplinary Graduate School of Medicine and Engineering	M. Azuma
56	General B	Surface structure analysis of metal complexes combined with metal oxides	Takashi AKITSU	Faculty of Science Tokyo University of Science	M. Hara

57	General B	Improvement of performance of oxynitride photocatalysts by new synthesis methods	Hideki KATO	Institute of Multidisciplinary Research for Advanced Materials Tohoku University	M. Hara
58	General B	Origin of the acidity on the mesoporous oxide and the fixation of nanocluster	Nobuyuki ICHIKUNI	Applied Chemistry & Biotechnology Graduate School of Engineering, Chiba University	M. Hara
59	General C	Study of hydrogenation and acid properties of hybrid catalyst consisting of metal and metal oxide	Hiroyuki IMAI	The University of Kitakyushu Faculty of Environmental Engineering	M. Hara
60	General B	Observation of the electronic structure of the SnS metastable phase	Hiroshi YANAGI	Interdisciplinary Graduate School of Medicine & Engineering, University of Yamanashi	H. Hiramatsu
61	General B	Optical- and thermoelectric-property modulation of VO ₂ thin film by electric field & hydrogenation	Takayoshi KATASE	Research Institute for Electronic Science Hokkaido University	H. Hiramatsu
62	General B	Evaluation of defect processes in high-purity amorphous and crystalline silica	Koichi KAJIHARA	Department of Applied Chemistry Graduate School of Urban Environmental Sciences, Tokyo Metropolitan University	H. Hiramatsu
63	General B	Physical properties evaluation of high-k dielectric thin film grown by mist CVD	Toshiyuki KAWAHARAMURA	Institute for Nanotechnology Kochi University of Technology	H. Hojo
64	General C	Multiferroic behavior in periodic nanostructured thin films	Seisuke NAKASHIMA	Graduate School of Engineering Yokohama National University	H. Hojo
65	General B	Analysis of Photoluminescence centers in Si-O-C(-H) amorphous with low carbon contents by electron spin resonance spectra	Masaki NARISAWA	Graduate School of Engineering Osaka Prefecture University	H. Hosono
66	Specified	Development of New Functionalities in Abundant Element Materials	Hideo HOSONO	Materials and Structures Laboratory Tokyo Institute of Technology	H. Hosono
67	Int'l A	Controlling the oxide formation on nickel surfaces for their potential application in nano-electronics	Bustamante Domínguez, Anguel Guillermo	Universidad Nacional Mayor de San Marcos	Y. Majima
68	General B	Analysis of charging mechanisms of isolated molecules and operating mechanisms of molecular-doped single-electron devices	Yutaka NOGUCHI	School of Science and Technology Meiji University	Y. Majima
69	General B	Molecular Devices Composed of Precisely Arrayed Metal Complexes	Kentaro TANAKA	Graduate School of Science Nagoya University	Y. Majima
70	General B	Fabrication of solid CO ₂ absorbent with self-heating function, and Optimization for its CO ₂ absorption ability	Katsuyoshi OH-ISHI	Graduate School of Science and Engineering Chuo University	Y. Majima
71	General B	Development of Nanoparticle Memory Devices	Toshiharu TERANISHI	Institute for Chemical Research Kyoto University	Y. Majima
72	General B	Fabrication of nano-gap electrodes for molecular electronics by nanoimprint lithography	Masaru NAKAGAWA	Institute of Multidisciplinary Research for Advanced Materials, Tohoku University	Y. Majima
73	General B	Research and development of novel metal/metal oxide catalysts synthesized from precursors based on layered materials	Yoshikazu KAMESHIMA	Okayama University Graduate School of Environmental and Life Science	N. Matsushita
74	General B	Property of the Chemical Bond in Ceramics through Ultra-violet Laser Raman Spectroscopy at High Temperature	Hirofumi FUJIMORI	Graduate School of Science and Engineering Yamaguchi University	N. Matsushita
75	General C	酸化グラフェンの官能基制御とデバイス応用	Takaaki TANIGUCHI	Graduate School of Science and Technology Kumamoto University	N. Matsushita
76	General C	Synthesis of Functional Ceramic Particles from Mixed Solution with Organic Matter	Kiminori USHIDA	Graduate School of Science Kitasato University	N. Matsushita
76.1	General C	Fabrication of functional metal oxide crystals and crystal layers by environmentally-friendly solution processes and analyses of their structures	Hajime WAGATA	Faculty of Engineering Shinshu University	N. Matsushita
76.2	General C	Solution synthesis processes and precise characterization for energy conversion materials	Koji TOMITA	Tokai University School of Science	K. Katsumata
77	General B	In situ Raman study of ionic liquid gated oxide thin films	Shingo MARUYAMA	Graduate School of Engineering Tohoku University,	S. Yasui
78	General B	Development of Novel Ferroelectric Materials in Framework Oxides	Hiroki TANIGUCHI	Department of Physics Nagoya University	S. Yasui
79	WS	Workshop on Next Generation Fine Ceramics based on Secure Material Concept	Kouichi YASUDA	Graduate School of Science and Engineering Tokyo Institute of Technology	F. Wakai
80	General B	Analysis of sintering force acting between powder particles	Kazunari SHINAGAWA	Faculty of Engineering Kagawa University	F. Wakai
81	General B	Study on sintering of bulk ceramics based on observation of internal structure	Satoshi TANAKA	Nagaoka University of Technology	F. Wakai
201	Int'l B	System and Damage Identification of a Full-Scale Steel Moment-Resisting Frame Structure using Ambient and Hysteretic Vibration Data	Ertugrul Taciroglu	Civil & Environmental Engineering Department University of California, Los Angeles	K. Kasai
202	Int'l B	Study on seismic performance of high-rise buildings based on earthquake records	Wuchuan PU	School of Architecture and Civil Engineering Wuhan University of Technology, China	K. Kasai
203	General A	A Study on True Energy Dissipation Effect of the Commonest Steel Damper and Reflection to Design Guideline	Hiroyuki TAMAI	Nagasaki University School of Engineering Structural Engineering Program	K. Kasai

204	General B	Study on Applicability of High Strength Steel to Beams	Hirofumi KANEKO	Department of Architecture Shinshu University	K. Kasai
205	General B	Design Method for Steel Frames of Passively Control Structures	Yoshihiro KIMURA	Tohoku University New Industry Creation Hatchery Center	K. Kasai
206	General B	The proposal of the seismic performance evaluation indexes which extended the seismic structural capacity index (Is-index) for retrofitted existing buildings	Tadamichi YAMASHITA	Dynamic Control Design Office Yamashita Structural Design Office	K. Kasai
207	General B	A study on design method & plastic deformesion capability of beam on pssive control steel structure	Teruaki YAMANISHI	Graduate School of Engineering Hiroshima University	K. Kasai
208	General B	Analytical Modeling of Reinforced Concrete Structural Walls with Openings for Simulating Flexural and Shear Behavior	Masanobu SAKASHITA	Department of Architecture and Architectural Engineering Kyoto University	S. Kono
209	General C	Feasibility study on establishment of experimental database of reinforced concrete members for seismic damage assessment	Masanori TANI	Building Research Institute International Institute of Seismology and Earthquake Engineering	S. Kono
210	Specified	Development of seismic damage controlling structural systems for quick recovery	Susumu KONO	Materials and Structures Laboratory Tokyo Institute of Technology	S. Kono
210.1	General C	Evaluation of residual seismic performance and residual deformation angle in stricken steel buildings	Yuko SHIMADA	Graduate School of Engineering Chiba University	S. Yamada
210.2	General C	Evaluation of Plastic Deformation Capacity of Steel Beams under Random Loading Histories	Jiao YU	Tokyo University of Science	S. Yamada
211	General B	A Study on Residual Deformation and Recovery Performance of the Isolation Device under Strong Ground Motions or Strong Winds	Atsuko SHIRAYAMA	College of Environmental Engineering and Architecture, Kanazawa Institute of Technology	D. Sato
212	General C	Proporsal of The New Seismic Performance Evaluation Index for Isolated Buildings.	Tetsushi INUBUSHI	Dept. of Architecture and Building Engineering Kanagawa University	D. Sato
213	General B	Development of Technologies for Enhanced Reliability of Resin-type Post-Installed Anchor Bolt System Focusing on Bond Fracture in Concrete	Kanji YAMADA	Faculty of Systems Science and Technology Akita Prefectural University	Y. Shinohara
214	General B	Hysteretic characteristics of unbonded post-tensioned precast concrete beams with beam-end dampers	Takeaki KOSHIKAWA	Faculty of Engineering Hokkaido University	Y. Shinohara
215	General B	Study on bond properties of reinforced concrete using Fly Ash and Blast-furnace Slag containing corroded reinforcing bar	Masayuki TSUKAGOSHI	Department of Civil and Environmental Engineering, The University of Tokushima	Y. Shinohara
216	General C	Wind resistance for solar panels	Saori ISHIHARA	Faculty of Engineering Chiba Institute of Technology	Y. Shinohara
217	General B	A Study on Design Code for Wooden Houses using Seismic Dampers	Koji YAMADA	Dept. of Architecture Toyota national College of Technology	K. Matsuda
218	General B	Strength properties of joints with tensile bolts on CLT structures	Kenji KOBAYASHI	Graduate School of Agriculture Shizuoka University	K. Matsuda
219	Int'l B	Passive controlled RC building structures with novel configurations of buckling restrained braces	Zhe QU	Institute of Engineearing Mechanics China Eearthquake Administration	D.Sato
220	General B	Study on Design for Development of Longitudinal bar in Reinforced Concrete Members Subjected to Shear Force	Koshiro NISHIMURA	Faculty of Engineering Hokkaido University	D.Sato
221	Int'l B	Seismic Design of Steel Gusset Plate Connection	Cui YAO	Dalian University of Technology Faculty of Infrastructure Engineering, School of Civil Engineering, Institute of	S. Yamada
222	General B	Composite beam elements for use in nonlinear dynamic analysis	Taichiro OKAZAKI	Graduate School of Engineering, Hokkaido University	S. Yamada
223	General B	Seismic performances of beam-column-brace connections in low-rise steel braced frames	Shoichi KISHIKI	Faculty of Engineering Osaka Institute of Technology	S. Yamada
224	General B	Re-evaluation and Improvement of damage classification for buildings damaged due to earthquakes	Masaki MAEDA	Tohoku University Graduate School of Engineering	S. Yamada

49.1	Flexble General B	Single crystal growth of lead-free tungstenbronze type ferroelectric oxides	Yutaka IWAI	Department of Materials Engineering Nagaoka National College of Technology	T. Sasagawa
210.3	FLexble General C	Effect of longitudinal rebar corrosion act on bond split strength in concrete	Tetsuya OHMURA	Faculty of Engineering Tokyo City University	Y. Shinohara
210.4	FLexble General C	Study on deformation capacity of welded-flange-bolted-web connection of steel beam	Yuka MATSUMOTO	Institute of Urban Innovation Yokohama National University	S. Yamada
210.5	FLexble Int'l B	Studies of the Crack Development of Corroded Reinforced Concrete Members	Aryanto ARIS	Structural Engineering Laboratory Institut Teknologi Bandung (ITB), Indonesia	Y. Shinohara