	A	B	C	D	E
1	**Abstract ID**	**Abstract title**	**Presenter**	**Presentation type**	**Categories**
2	157	The Role of Plastic Deformation in Martensitic Transformation of Low Carbon Steel	Hesham Salama	Oral	19) Coupling of Martensitic Transformation with Plastic Deformation
3	158	Investigation of TiNi Shape Memory Alloy, Polymer and TiNb Ni -free High Elastic Alloys by using Digital Image Correlation, Infrared and Acoustic Emission Techniques	Elżbieta Pieczyska	Oral	14) Advanced Characterization Methods for Martensitic Materials
4	159	EBSD and TKD Study of Microstructure Evolution in NiTi Alloys	Junfeng Xiao	Oral	18) Deformation Mechanisms in Martensitic Materials
5	160	Mechanical properties of heterogeneous-structured 18Ni300 maraging steel manufactured by directed energy deposition	Jung Gi Kim	Oral	13) Additive Manufacturing of Martensitic Materials
6	161	The weak twins in martensite	Cyril Cayron	Oral	1) Theory of Martensitic Transformation and Fundamental Phenomena
7	162	Beyond Martensitic Transformations: Intrinsic Orientation Relationships via Generalized Lattice Correspondences	WENZHENG ZHANG	Oral	1) Theory of Martensitic Transformation and Fundamental Phenomena
8	163	Recovery stress and tensile behavior under recovery stress of cold-drawn superelastic SMA wires	Eunsoo Choi	Oral	21) Engineering Applications of Martensitic Materials
9	164	Superelastic Ti-Nb-Sn porous alloys prepared by material extrusion additive manufacturing	Tae-hyun Nam	Oral	13) Additive Manufacturing of Martensitic Materials
10	165	The Martensitic Transformation in In-Tl Alloys Revisited	Trevor Finlayson	Oral	1) Theory of Martensitic Transformation and Fundamental Phenomena
11	166	Revealing the Friction and Wear Behavior of Additively Manufactured NiTi Alloy Under Different Operating Temperature Levels	Sougata Roy	Oral	13) Additive Manufacturing of Martensitic Materials
12	167	Lattice Distortion - Atomic Shuffle Coupling of the R phase in NiTi	Yuxuan Chen	Poster	1) Theory of Martensitic Transformation and Fundamental Phenomena
13	169	Crystallographic and morphological changes during successive stress-induced martensitic transformations in single crystal Cu-Al-Mn shape memory alloys	Hiroshi Akamine	Oral	19) Coupling of Martensitic Transformation with Plastic Deformation
14	170	Anisotropic cleavage fracture caused by transformation-induced internalstress in an as-quenched martensite	Nobuo Nakada	Oral	9) Advancements in Martensitic Steels
15	171	Detwinning Elasticity of NiTi	Yinong Liu	Oral	18) Deformation Mechanisms in Martensitic Materials
16	172	Antwerp outreach activity for children	Dominique Schryvers	Oral	2) Design of Martensitic Materials
17	173	Reorientation Behavior of Martensitic Variants and Mechanical Response in Aged Ti–Mo–Al Shape Memory Alloys	Naoki Nohira	Oral	18) Deformation Mechanisms in Martensitic Materials
18	174	Hydrogen Cation-Induced Martensitic Transformation During Electrochemical Hydrogen Charging in Metastable Austenitic Stainless Steel	Heung Nam Han	Oral	1) Theory of Martensitic Transformation and Fundamental Phenomena
19	175	A novel observation of hcp martensite layer formed at bcc martensite lath boundaries in medium-Mn steel during quenching	Haiwen Luo	Oral	4) Martensitic microstructures – Experiments and Modelling
20	176	Variant selection in deformation-induced martensite transformation	MANABU TAKAHASHI	Oral	19) Coupling of Martensitic Transformation with Plastic Deformation

	A	B	C	D	E
21	177	Effect of microstructure on hole expansion ratio of advanced high strength steel	Jin Sung Hong	Oral	2) Design of Martensitic Materials
22	178	Development of Cold-rolled Martensitic Steels with excellent flatness and resistance to hydrogen delayed fracture	Min-Ho Jang	Oral	9) Advancements in Martensitic Steels
23	179	Strain accommodation in microstructure development of lath-shaped martensite and bainite	Tadashi Furuhara	Oral	4) Martensitic microstructures – Experiments and Modelling
24	180	Phase-field modeling of martensitic transformation in ferrous shape memory alloy exhibiting superelasticity	Miyu Takagi	Poster	4) Martensitic microstructures – Experiments and Modelling
25	181	Effect of Hf on the martensitic transformation behavior and self-accommodation in Ti-Ni-Hf and Ti-Pd-Hf alloys	Mitsuhiro Matsuda	Oral	4) Martensitic microstructures – Experiments and Modelling
26	182	On the origin of functional fatigue of nanocrystalline NiTi wires	Petr Šittner	Oral	19) Coupling of Martensitic Transformation with Plastic Deformation
27	183	Influence of two-step aging treatment on precipitation behavior of as-built 18Ni-maraging steel fabricated by laser powder bed fusion	Sung Hwan Hong	Poster	13) Additive Manufacturing of Martensitic Materials
28	184	A polymer-like ultrahigh-strength metal alloy	Yuanchao Ji	Oral	6) Novel Shape Memory Alloys
29	185	Characterization of Ti50Ni50-XMoX (X=2; 6) alloy produced by high-energy ball milling	Tomasz Goryczka	Poster	12) Advanced Fabrication and Processing of Martensitic Materials
30	186	Novel sub-grain structures in B2 of a cold-rolled TiNi shape memory alloy with unique property	Qianglong Liang	Oral	19) Coupling of Martensitic Transformation with Plastic Deformation
31	187	Microstructure refinement of 0.1C – 4Mn martensitic steel utilizing heterogeneous Mn distribution	Ji Hoon Kim	Oral	2) Design of Martensitic Materials
32	188	R-Phase transformation in Ti-Ni-Co alloys	Jaeil Kim	Poster	11) Novel Functional Behaviors
33	189	Deformation microstructure developed via anisotropic slip behaviour in lath martensite blocks of ultra-low carbon steel	Shohei Ueki	Oral	18) Deformation Mechanisms in Martensitic Materials
34	190	Investigation on the electronic structure of modulated martensite phase of magnetic shape memory alloy Ni2MnGa via quasi-particle self-consistent GW approach	Masao Obata	Oral	3) First Principle Calculations and Atomistic Modelling of Martensitic Materials
35	191	A lightweight yet strong Ti-Al-based superelastic alloy operating across a wide temperature range	Sheng Xu	Oral	6) Novel Shape Memory Alloys
36	192	Energies of type II twin boundaries and martensite plates in NiTi	Meron Doar	Oral	4) Martensitic microstructures – Experiments and Modelling
37	193	NiMnGa-based multicaloric alloys: functional thermo-mechanical investigation under magnetic field	Elena Villa	Oral	17) Elastocaloric and Multicaloric Phenomena
38	194	Elastocaloric investigation of NiTi 3D lattice structures fabricated via laser powder bed fusion under coupled mechanical deformation	Emanuele Bestetti	Oral	17) Elastocaloric and Multicaloric Phenomena
39	195	Enhancement of Shear-Band Formation During Bending through Tempering and Its Influence on Crack Suppression in Low-Carbon Martensitic Steel	Naoki Maruyama	Oral	18) Deformation Mechanisms in Martensitic Materials
40	196	Transformation behaviors and microstructur aspects in hydrogen-charged Ti-Ni alloys	Minoru Nishida	Oral	4) Martensitic microstructures – Experiments and Modelling
41	197	Additively manufactured elastocaloric materials and the strain glass transition	Huilong Hou	Oral	17) Elastocaloric and Multicaloric Phenomena

	A	B	C	D	E
42	198	Martensitic Transformation-Dominated Lüders Deformation in Ultrafine-Grained 304 Steel at 77K	Stefanus Harjo	Oral	18) Deformation Mechanisms in Martensitic Materials
43	199	In-situ crystallographic analysis of habit plane in stress-induced martensitic transformation of Ti-Ni alloy single crystals	Kosei Ono	Poster	1) Theory of Martensitic Transformation and Fundamental Phenomena
44	200	Composition dependence of the distribution and hysteresis width of Martensite phases in the Au50-xCu25+xAl25 pseudobinary system	Yuki Matsuoka	Oral	1) Theory of Martensitic Transformation and Fundamental Phenomena
45	201	Effect of Powder Characteristics on the Printability of NiTi Alloys in Laser Powder Bed Fusion	Kadri C. Atli	Oral	13) Additive Manufacturing of Martensitic Materials
46	202	Interlocking Metasurfaces: A New Paradigm for Adaptive and Reconfigurable Joining	Abdelrahman Elsayed	Oral	11) Novel Functional Behaviors
47	203	Voxel-Level Design of Functionally Graded NiTi and NiTiHf Shape Memory Alloys via Laser Powder Bed Fusion for Multi-Stage Actuation	Ibrahim Karaman	Oral	13) Additive Manufacturing of Martensitic Materials
48	204	Suppression of transformation-induced dislocations in supercompatible martensite microstructure satisfying the triplet condition in Ti-Ni based alloys	Tomonari Inamura	Oral	4) Martensitic microstructures – Experiments and Modelling
49	205	Additive Manufacturing of SMA Ni-Ti using Sinter-Based Methods	Eilon Faran	Oral	13) Additive Manufacturing of Martensitic Materials
50	206	Disclination-mediated twin-twin reactions in martensitic transformation of titanium	Yipeng Gao	Oral	1) Theory of Martensitic Transformation and Fundamental Phenomena
51	207	Austenite-Martensite interface propagation in Ni-Mn-Ga single crystal	Xingke Gao	Oral	1) Theory of Martensitic Transformation and Fundamental Phenomena
52	208	In-situ 3D characterization of deformation-induced martensitic transformation in metastable austenitic alloy by synchrotron X-ray micro- and nano-tomography	Tatsuya Iwano	Oral	14) Advanced Characterization Methods for Martensitic Materials
53	209	Tensile deformation of cold rolled Fe-Ni-C metastable austenitic steel investigated by in-situ synchrotron XRD	Naoki HARADA	Poster	18) Deformation Mechanisms in Martensitic Materials
54	210	Microstructure and bending fatigue behavior of martensite steel with 0.4%C subjected to different heat treatments	Jiaqiang Dang	Oral	20) Fatigue and Fracture of Martensitic Materials
55	211	Phase-field simulation of internal stress distribution during martensitic transformation in low-carbon steel	Yuhki Tsukada	Oral	4) Martensitic microstructures – Experiments and Modelling
56	212	On designing Aging of Stress-Induced Martensite in Order to Produce High Temperature Shape Memory Alloys	Asmaa A. Azim	Oral	2) Design of Martensitic Materials
57	213	Standard and repetitive load-unload nanoindentation studies on superelastic and shape memory NiTi	Sneha Samal	Oral	11) Novel Functional Behaviors
58	214	The origin of the β-relaxation phenomenon in strain glass: a phase field modeling	Chuanxin Liang	Oral	4) Martensitic microstructures – Experiments and Modelling
59	215	High-Rate Actuation of Shape Memory Alloys	Doron Shilo	Oral	21) Engineering Applications of Martensitic Materials
60	216	Phase-field simulation of martensitic transformation during continuous cooling in polycrystalline low-carbon steel	Takumi Okamoto	Poster	4) Martensitic microstructures – Experiments and Modelling
61	217	Latent thermal energy storage driven by martensitic transformation in shape memory materials	Žiga Ahčin	Oral	23) Applications: Calorics and Energy Harvesting

	A	B	C	D	E
62	218	Effect of excess Ti solutes on the martensitic transformation behavior and microstructure of Ti-rich Ti50+xNi (x = 0, 0.5, 1, 1.5, 2) shape memory alloys via rapid solidification	Nian-Hu Lu	Poster	2) Design of Martensitic Materials
63	219	Development of elastocaloric device	Jaka Tusek	Oral	23) Applications: Calorics and Energy Harvesting
64	220	Realization of tensile plasticity and shape memory effect in NiMnGa shape memory alloys by constructing a unique dual-phase configuration	Jiaxi Meng	Oral	19) Coupling of Martensitic Transformation with Plastic Deformation
65	221	Accelerated functional fatigue leading to hysteresis widening in Ti44Ni47Nb9 shape memory alloy with multi-scale Nb-rich particles	Jian Zhang	Oral	1) Theory of Martensitic Transformation and Fundamental Phenomena
66	222	In situ neutron diffraction examination of anomalous hysteresis behavior in Co-Cr-Al-Si superelastic alloys	Xiao Xu	Oral	6) Novel Shape Memory Alloys
67	223	Effect of Carbon Content on Microstructures of Low-Carbon Lath Martensite	Shigekazu Morito	Poster	4) Martensitic microstructures – Experiments and Modelling
68	224	PLENARY: Probing theory of martensite by epitaxial films	Sebastian Fähler	Plenary	1) Theory of Martensitic Transformation and Fundamental Phenomena
69	225	An Implantable Device Based on Shape Memory Alloys	Israel Alexandron	Oral	22) Applications: Medical Devices, Actuators, and Vibration Damping
70	226	Proof-of-concept of superelastic active mechanical metamaterials using Cu-Al-Ni shape memory alloys.	Ander Abadín	Oral	11) Novel Functional Behaviors
71	227	Ab initio study of long-period commensurate structures of Ni2MnGa modulated martensite	Martin Zelený	Oral	16) Magnetic Shape Memory Phenomena
72	228	Crystal structure and superelasticity in novel Fe-Mn-Al-Si alloy	Toshihiro Omori	Oral	6) Novel Shape Memory Alloys
73	229	Sharp Atomic Structure of Highly Mobile Type I and Type II Twin Boundaries in Ni-Mn-Ga Magnetic Shape Memory Single Crystal	Marek Vronka	Oral	16) Magnetic Shape Memory Phenomena
74	230	Specific heat and entropy change during martensitic transformation in Ni50Mn50-xTix alloys	Tomoya Miyakawa	Oral	17) Elastocaloric and Multicaloric Phenomena
75	231	Grain boundary network-induced martensitic transformations in polycrystals at finite strains: Multiphase-field approach and scale-effect	Newton .	Oral	5) Continuum-level Modelling of Mechanics of Martensitic Materials
76	232	Mechanism of Hysteresis Widening in NiTi-Nb: Beyond the β-Nb Phase	Oliver Reed	Oral	1) Theory of Martensitic Transformation and Fundamental Phenomena
77	233	Elastocaloric Cooling: Advancements from Miniature to Macro Scale	Jingyuan Xu	Oral	23) Applications: Calorics and Energy Harvesting
78	234	Exploration of CuZnAl for elasto-caloric applications	Oneil Goisot	Oral	17) Elastocaloric and Multicaloric Phenomena
79	235	Development of Film-Based Elastocaloric Cooling Using Shape Memory Alloy Actuators	Yi-Ting Hsiau	Oral	23) Applications: Calorics and Energy Harvesting
80	236	Tensile properties and deformation-induced martensitic transformation in Fe-Ni-C steel	Ryoya OISHI	Poster	9) Advancements in Martensitic Steels
81	237	Phase transformation and texture evolution in a metastable medium entropy alloy	Ibrahim Ondicho	Poster	8) High Entropy Alloys with Martensitic Transformation

	A	B	C	D	E
82	238	Substructures and crystallographic features of as-quenched lath martensite in medium-carbon steel	Akinobu Shibata	Oral	4) Martensitic microstructures – Experiments and Modelling
83	239	Analysis on hydrogen embrittlement of SUS304 and SUS316 steels by In-situ X-ray diffraction using Synchrotron radiation during low temperature and high pressure H2 gas tensile testing with 0.3mm thin wall hollow specimen	Shiro Torizuka	Oral	4) Martensitic microstructures – Experiments and Modelling
84	240	Microstructural Studies of Fe-Pd Martensitic Crystals using Elastic and Inelastic Neutron Scattering	Trevor Finlayson	Oral	4) Martensitic microstructures – Experiments and Modelling
85	241	Introduction to 3D in-situ characterization technique for deformation-induced martensitic transformation using synchrotron X-ray	Osamu Takakuwa	Oral	14) Advanced Characterization Methods for Martensitic Materials
86	242	Martensitic transformation in Ni2FeGa Glass-Coated Microwires	Rastislav Varga	Oral	12) Advanced Fabrication and Processing of Martensitic Materials
87	243	Phase-field study on austenite-martensite interface formation in Shape Memory Alloys	Bingqian WANG	Poster	4) Martensitic microstructures – Experiments and Modelling
88	244	Elastocaloric effect covering wide temperature range in a Ti-Al-Cr shape memory alloy	Yuxin Song	Oral	17) Elastocaloric and Multicaloric Phenomena
89	245	Effect of Composition on the Degree of B2 Ordering in Ti-Al-Cu Shape Memory Alloys	Hirobumi Tobe	Oral	6) Novel Shape Memory Alloys
90	246	Elastic properties of Ni-Mn-Ga-1%Fe 10M martensite with incommensurate lattice modulation	Alexei Sozinov	Poster	16) Magnetic Shape Memory Phenomena
91	247	Sustaining the TRIP Effect in High-Strength Steels for Enhanced Mechanical Performance	Xuejun Jin	Oral	9) Advancements in Martensitic Steels
92	248	Effect of microstructure on mechanical properties of 1.0G TRIP steels produced by quenching and partitioning process	Wontae Cho	Oral	2) Design of Martensitic Materials
93	249	Flexocaloric effect in shape-memory alloys	Antoni Planes	Oral	17) Elastocaloric and Multicaloric Phenomena
94	250	Magnetic-field-induced martensitic transformation with small hysteresis in Mn3Ga alloys	Daisuke Imatomi	Oral	16) Magnetic Shape Memory Phenomena
95	251	Hydrogen-Induced Modifications in Nickel-Titanium Alloys: Correlating Electronic Transport and Phase Transformations	Torben Tappe	Poster	4) Martensitic microstructures – Experiments and Modelling
96	252	Third element diffusion induced amorphization of NiTi	Hong Yang	Oral	4) Martensitic microstructures – Experiments and Modelling
97	253	Functional properties comparison for high entropy and conventional shape memory alloys: few application perspectives	Vira Filatova	Poster	8) High Entropy Alloys with Martensitic Transformation
98	254	Ordering and Martensitic Transformation in Fe-Mn-Al-Ga Alloys	Ji Xia	Oral	6) Novel Shape Memory Alloys
99	255	Acoustic Emission Characteristics of Martensitic Transformation in Superelastic NiTinol	Rami Carmi	Oral	14) Advanced Characterization Methods for Martensitic Materials
100	256	Plastic Deformation Mechanism of Low-Carbon Steel Lath Martensite by Multiscale Deformation Analysis	Shuang Gong	Oral	18) Deformation Mechanisms in Martensitic Materials
101	257	Structure formation in high entropy shape memory alloys	Georgiy Firstov	Oral	8) High Entropy Alloys with Martensitic Transformation

	A	B	C	D	E
102	258	Fatigue performance of low-temperature aged NiTi filaments	Ondřej Tyc	Oral	20) Fatigue and Fracture of Martensitic Materials
103	259	Elastocaloric effect in polycrystalline NiMnGa produced through hot-rolling powder consolidation	Francesca Villa	Poster	17) Elastocaloric and Multicaloric Phenomena
104	260	Application of full-field measurement techniques for the thermomechanical analysis of Ti-26Nb, Ti-25Nb-0.3O and Ti-25Nb-0.3N shape memory alloys under tension	Karol Golasiński	Oral	14) Advanced Characterization Methods for Martensitic Materials
105	261	A novel quench cracking characterisation method for induction-hardened steels with different thermal histories	AYSEL AYSU CATAL ISIK	Oral	14) Advanced Characterization Methods for Martensitic Materials
106	262	An EBSD Study of Crystallographic Correspondences and Variant Selection in Zirconia-Based Shape Memory Ceramics	Alejandra Slagter	Oral	10) Martensitic Transformations in Non-Metallic Materials
107	263	Fatigue crack growth in metastable austenitic stainless steels related to martensitic transformation-induced hydrogen embrittlement	Yuhei Ogawa	Oral	20) Fatigue and Fracture of Martensitic Materials
108	264	Laser focal length influence in H13 Tool Steel Deposition Through L-DED	ANDERSAN PAULA	Poster	13) Additive Manufacturing of Martensitic Materials
109	265	Correlation of Crystallographic and Magnetic Domain Structures in Fe-61.8at%Pd Alloy	Yuto Tomita	Oral	16) Magnetic Shape Memory Phenomena
110	266	The relationship between degree of order and martensitic transformation behavior in 68Cu–16Al–16Zn	Megumi Takayama	Poster	1) Theory of Martensitic Transformation and Fundamental Phenomena
111	267	Crystallographic analysis of stress-induced martensite in β titanium alloy by combined in-situ measurements	Masaki TAHARA	Oral	1) Theory of Martensitic Transformation and Fundamental Phenomena
112	268	Variant selection in deformation-induced martensitic transformation during tensile deformation of ultrafine grained metastable austenitic steel	Yuanhong LIU	Oral	18) Deformation Mechanisms in Martensitic Materials
113	269	Tunable High Contrast Changes in Transport Properties of Metamagnetic Phase Change Materials	Serdar Torun	Oral	11) Novel Functional Behaviors
114	270	Reversible domain switching induced by gradient precipitation with high dissipative superelasticity at low temperature	Dong Wang	Oral	4) Martensitic microstructures – Experiments and Modelling
115	271	Surface Microstructures Formed by Shot-Peening of Fe-33mass%Ni Alloy	Marie Kondo	Poster	19) Coupling of Martensitic Transformation with Plastic Deformation
116	272	Change in Reverse Transformation Start Temperatures of Fe-33%Ni and Fe-28%Ni-20%Co Alloys by Shot-Peening	Hisashi Sato	Oral	19) Coupling of Martensitic Transformation with Plastic Deformation
117	273	In-situ Observation of the Formation of Lath Martensite Microstructurein Fe-Ni-Cr-C Alloy	Wataru Aoki	Poster	9) Advancements in Martensitic Steels
118	274	Improving the ductility of ultrahigh-strength high-carbon martensite by prior bainitic transformation	Sien Liu	Oral	2) Design of Martensitic Materials
119	275	In situ neutron diffraction study on the development of martensitic transformation in hydrogen-charged Type 316L steel at low temperature	Tatsuya Ito	Oral	19) Coupling of Martensitic Transformation with Plastic Deformation
120	276	Characterization of permanent lattice defects and strain generated by forward or reverse martensitic transformation in NiTi wire	Orsolya Molnárová	Poster	14) Advanced Characterization Methods for Martensitic Materials

	A	B	C	D	E
121	277	Observation of strain-spin dual-glass state in all-d-metal Heusler alloy Ni2MnTi	Qiusa Ren	Oral	16) Magnetic Shape Memory Phenomena
122	278	Analysis of Fatigue Behavior of Martensitic Steel Using Digital Holographic Microscope	Yusuke Matsui	Poster	4) Martensitic microstructures – Experiments and Modelling
123	279	Additive Manufacturing processing of Superelastic Cu–Al–Ni Shape Memory Alloys	Mikel Pérez-Cerrato	Oral	13) Additive Manufacturing of Martensitic Materials
124	280	Cyclic Transformation Strengthening in Fine-Grained Fe-24Ni-0.3C Metastable Austenitic Steel Studied by In-Situ Synchrotron XRD	Mayu DONO	Oral	18) Deformation Mechanisms in Martensitic Materials
125	281	Mechanical splicing of superelastic Cu-Al-Mn alloy bars with rolled threads	Sumio Kise	Oral	12) Advanced Fabrication and Processing of Martensitic Materials
126	282	Changes of martensitic transformation temperature by adding Mn into 68Cu-16Al-16Zn alloys	Ayaka Ibato	Poster	1) Theory of Martensitic Transformation and Fundamental Phenomena
127	283	Elastocaloric effect of NiTi alloy under multiaxial stress states	Andrej Žerovnik	Oral	17) Elastocaloric and Multicaloric Phenomena
128	284	Effects of Au addition on the internal friction of Cu-Al-Mn shape memory alloys	Wei-Jhen Hsu	Poster	22) Applications: Medical Devices, Actuators, and Vibration Damping
129	285	Analysis of the elastocaloric effect in CuAlNi shape memory alloys through nano-compression experiments	Jose F. Gómez-Cortés	Oral	17) Elastocaloric and Multicaloric Phenomena
130	286	Electrical Resistivity Changes during Successive Transformations in Ti-Ni Alloy under Stress Loading	Yohei Soejima	Poster	11) Novel Functional Behaviors
131	287	4D Printing of NiTi Shape Memory Alloys	Chao Yang	Oral	13) Additive Manufacturing of Martensitic Materials
132	288	Large recoverable strains with high recovery rates via cooperative regulation of texture and precipitation in additive manufactured NiTi alloy	Weisi Cai	Oral	13) Additive Manufacturing of Martensitic Materials
133	289	Dynamic characterisation of NiTi during martensite–austenite transformation	Carolina Guerra	Oral	14) Advanced Characterization Methods for Martensitic Materials
134	290	Design and characterization of a new quaternary Cu-Al-Ni-Ga shape memory alloy	Maria L. Nó	Oral	6) Novel Shape Memory Alloys
135	291	Fe-based near HEA with shape memory effect: microstructure and quantitative characterization of the martensitic transformation	Lucia Del-Río	Oral	8) High Entropy Alloys with Martensitic Transformation
136	292	Acoustic emission measurements during plastic deformation of FeMn(Cr) TWIP steel.	Lajos Daróczi	Poster	19) Coupling of Martensitic Transformation with Plastic Deformation
137	293	Prospects and challenges in Fe-based shape memory alloys	Thomas Niendorf	Oral	6) Novel Shape Memory Alloys
138	294	Functional behaviour of shape memory alloys at the nanoscale:::. An overview.	Jose M. San Juan	Oral	11) Novel Functional Behaviors
139	295	Damping characteristics of Cu-13.5Al-4Ni-xTi shape memory alloys	KAI-MIN HUANG	Poster	22) Applications: Medical Devices, Actuators, and Vibration Damping
140	296	Enhanced Mechanical Properties by FCC-HCP Martensitic Transformation in Co-Cr-Mo-Ni Medium Entropy Alloys	Koichi Tsuchiya	Oral	8) High Entropy Alloys with Martensitic Transformation
141	297	PLENARY: Development and challenges of Ni-free Ti-based biomedical superelastic alloys	Hideki Hosoda	Plenary	6) Novel Shape Memory Alloys

	A	B	C	D	E
142	298	Shell-based finite element modelling for predicting buckling stability of superelastic SMA tubes	Adam Plantarič	Oral	5) Continuum-level Modelling of Mechanics of Martensitic Materials
143	299	Laser powder bed fusion vs. single track laser remelting of α'' Ti-Nb	Matthias Bönisch	Oral	13) Additive Manufacturing of Martensitic Materials
144	300	The change of the martensitic transformation temperature on each composition by aging treatment in Cu-Al-Mn alloys	Kotaro Tomioka	Oral	1) Theory of Martensitic Transformation and Fundamental Phenomena
145	301	Texture Evolution in Transforming and Twinning Materials: A Comparison of Neutron Diffraction and MTEX-Based Simulations	RNDr. Čapek	Oral	4) Martensitic microstructures – Experiments and Modelling
146	302	Mechanical Testing at Elevated and Cryogenic Temperatures with Concurrent Acoustic Emission and Electrical Resistivity Monitoring	RNDr. Čapek	Poster	18) Deformation Mechanisms in Martensitic Materials
147	303	Magnetostructural behaviour of Ni35Co13Mn35-xFexTi17 melt spun-ribbons	Mariana Ríos Naranjo	Oral	16) Magnetic Shape Memory Phenomena
148	304	Origami-Inspired Reprogrammable Shape Memory Alloy Microactuator System	Vincent Gottwald	Oral	22) Applications: Medical Devices, Actuators, and Vibration Damping
149	305	Variant Selection in Polycrystalline CuAlNi and NiTi Shape Memory Alloys Investigated with In-Situ X-ray Topotomography	Janice Moya	Oral	14) Advanced Characterization Methods for Martensitic Materials
150	306	AI-Guided Accelerated Discovery of Multi-Principal Element High Temperature Shape Memory Alloys	John Broucek	Oral	7) High Temperature Shape Memory Alloys
151	307	Analysis of complex microstructures in Ti76Nb22Al2	John Ball	Oral	4) Martensitic microstructures – Experiments and Modelling
152	308	Strain glass boundary in TiNiCu alloys showing enhancement of superelasticity over a wide temperature range	Yang Yang	Oral	2) Design of Martensitic Materials
153	309	Martensitic transformation behaviors and damping properties of Cu-Al-Fe-Co high-temperature shape memory alloys	威廷 郭	Poster	22) Applications: Medical Devices, Actuators, and Vibration Damping
154	310	Temperature and stress induced structural transformations in Ni50Mn27Ga22Fe1 alloy	Mariia Vinogradova	Oral	1) Theory of Martensitic Transformation and Fundamental Phenomena
155	311	Effect of the manufacturing method and heat treatment on martensite formation in maraging 250 steel	Andersan dos Santos Paula	Oral	13) Additive Manufacturing of Martensitic Materials
156	312	Analysis of Variant Pair Formation on Σ3 Boundaries in Lenticular Martensite Microstructures	Yuri Shinohara	Oral	9) Advancements in Martensitic Steels
157	313	Thermomechanical Characterization of very thin Ni50Fe27Ga23 Shape Memory Microwire	Limpat Nulandaya	Poster	15) Low-dimensional Structures: Thin Films and Wires, Nanoparticles
158	314	Acoustic emission - a promising tool to study the functional stability of superelasticity of shape memory alloys	Anja Weidner	Oral	14) Advanced Characterization Methods for Martensitic Materials
159	315	In situ studies on the functional stability of a polycrystalline highly textured Fe-Ni-Co-Al-Ti-B shape memory alloy using synchrotron X-ray diffraction and acoustic emission measurements	Anja Weidner	Oral	14) Advanced Characterization Methods for Martensitic Materials
160	316	Hybrid Modeling Framework for Shape Memory Alloys	Dimitris C Lagoudas	Oral	5) Continuum-level Modelling of Mechanics of Martensitic Materials
161	317	Complex Thermomechanical Loading Paths for High Temperature Shape Memory Alloys	Dimitris C Lagoudas	Oral	7) High Temperature Shape Memory Alloys
162	318	Recycling of NiTi shape memory alloys - effects of melting methods and processing conditions	Sakia Noorzayee	Oral	12) Advanced Fabrication and Processing of Martensitic Materials

	A	B	C	D	E
163	319	Hydrogen Outgassing from FCC Metal Surfaces under Thermal Treatment	Avadh Saxena	Oral	3) First Principle Calculations and Atomistic Modelling of Martensitic Materials
164	320	Beyond Fatigue: Million-Cycle Reversibility in Martensitic Phase Transformations	Xian Chen	Oral	1) Theory of Martensitic Transformation and Fundamental Phenomena
165	321	On interaction between deformation twins and LPSO phases in Mg alloys	Andrej Ostapovec	Poster	1) Theory of Martensitic Transformation and Fundamental Phenomena
166	322	Magnetic Manipulation of Spatially Confined Multiferroic Heuslers by Martensitic Microstructure Engineering	Milad Takhsha	Oral	15) Low-dimensional Structures: Thin Films and Wires, Nanoparticles
167	323	Shape memory behavior of additively manufactured Ti-Ta high-temperature shape memory alloy lattice structures	Christian Lauhoff	Oral	7) High Temperature Shape Memory Alloys
168	324	Revisiting γ-ε martensitic transformation: sluggish plate growth and significant TRIP effect.	Kaneaki Tsuzaki	Oral	9) Advancements in Martensitic Steels
169	325	Characterization and influence of Ni3Ti precipitates on functional properties of All-d-Metal Ni-Mn-Ti Magnetic Shape Memory Alloys	Rubén Santamarta	Oral	6) Novel Shape Memory Alloys
170	326	Automated Classification of Martensitic Microstructures in Ti6Al4V via Transfer Learning: A Metallographic and Literature-Based Approach	Edilvando Eufrazio	Poster	4) Martensitic microstructures – Experiments and Modelling
171	327	Microstructural Aspects Ti6Al4V Alloy Processed by LBPF Investigated by EBSD Technique	Fábio Oliveira	Poster	14) Advanced Characterization Methods for Martensitic Materials
172	328	Effect of solidification rate on martensitic transformation behavior of Cu-doped Ni-Mn-Ga metamagnetic shape memory ribbons	Natalia A. Río-López	Oral	16) Magnetic Shape Memory Phenomena
173	329	Microstructure Evolution of Ni-Ti-Hf Shape Memory Alloys Manufactured via Additive Manufacturing Processes	Philipp Krooss	Oral	7) High Temperature Shape Memory Alloys
174	330	Growth kinetics and property tuning in magnetic shape memory alloys prepared by optical floating zone growth	Denys Musiienko	Oral	12) Advanced Fabrication and Processing of Martensitic Materials
175	331	Unraveling the precipitation-controlled martensite self-accommodation and shape memory effect in NiTi alloy across atomic scale and microscale	Shanshan Cao	Oral	4) Martensitic microstructures – Experiments and Modelling
176	332	Structure and Microstructure-based Elastic Property study on a Co41Ni32Al27 Ferromagnetic Shape Memory Alloy Melt-spun ribbon	RAJINI KANTH BHOGOJU	Oral	6) Novel Shape Memory Alloys
177	333	Effects of Cryogenic Rolling and Metallographic Preparation on Martensitic Transformation and Residual Stress in 304L TRIP Steel	Andersan dos Santos Paula	Oral	19) Coupling of Martensitic Transformation with Plastic Deformation
178	334	Actuation characteristics of spring-biased NiTi shape memory alloy wires under pulsed current stimulation	Xiao Ma	Poster	15) Low-dimensional Structures: Thin Films and Wires, Nanoparticles
179	335	Superelasticity over a wide temperature range in a NiTiCu shape memory alloy via laser powder bed fusion	Haizhou Lu	Oral	2) Design of Martensitic Materials
180	336	High tensile stress actuation with NiTiHf high-temperature shape memory alloys additively manufactured via laser powder bed fusion	Hongwei Ma	Oral	7) High Temperature Shape Memory Alloys
181	337	Low melting point composites based on metamagnetic Ni-Co-Mn-In-Cu alloy for magnetic refrigeration	Vicente Sánchez-Alarcos	Poster	24) Shape Memory Composites and Heterostructures
182	338	Acoustic emission from displacive phase transitions: comparison of martensitic and ferroelectric model materials	Uwe Klemradt	Poster	14) Advanced Characterization Methods for Martensitic Materials

	A	B	C	D	E
183	339	Long-period Commensurate States in Ni-Mn-Ga Modulated Martensite	Ladislav Straka	Oral	4) Martensitic microstructures – Experiments and Modelling
184	340	Regular Twinning in Epitaxial Rh2MnSb Thin Films	Artem Shamardin	Poster	4) Martensitic microstructures – Experiments and Modelling
185	341	Development of Cu-doped Ni-Mn-Ga metamagnetic shape memory alloy powders	Daniel Salas	Oral	12) Advanced Fabrication and Processing of Martensitic Materials
186	342	Bridging Fundamental Crystallography and Magnetic Shape Memory: Minor Diffraction Features Reveal Anharmonic Incommensurate Modulation in Ni-Mn-Ga Single Crystals	Petr Veřtát	Oral	16) Magnetic Shape Memory Phenomena
187	343	How to transform martensite in NiTi within picoseconds	Klara Lünser	Oral	14) Advanced Characterization Methods for Martensitic Materials
188	344	Probing martensitic transformation in Ni-Mn-Ga via high-frequency ferromagnetic resonance	Sviatoslav Vovk	Poster	16) Magnetic Shape Memory Phenomena
189	345	Predictions of modulation and structural stability of Ni-Mn-X (X = Al, Ga, In) from first-principles	Jakub Luštinec	Oral	3) First Principle Calculations and Atomistic Modelling of Martensitic Materials
190	346	Resonant Ultrasound Spectroscopy: An efficient tool for high throughput characterization of additively manufactured biomedical Ti-Nb-Zr-O alloys	Michaela Janovska	Oral	14) Advanced Characterization Methods for Martensitic Materials
191	347	Development of neural network interatomic potentials for molecular dynamics: Application for martensitic nickel titanium	Petr Jaroš	Oral	3) First Principle Calculations and Atomistic Modelling of Martensitic Materials
192	348	Magnetic anomalies in Ni-Mn-Ga-x austenite and premartensite	Alexej Perevertov	Oral	4) Martensitic microstructures – Experiments and Modelling
193	349	A Synchrotron Diffraction Study of the Total Stress Approach to Martensitic Transformations in Metastable β-Ti alloys	Nicole Church	Oral	1) Theory of Martensitic Transformation and Fundamental Phenomena
194	350	The formation, evolution and deformation of stress induced martensite in Ti-Nb based alloys	Nick Jones	Oral	1) Theory of Martensitic Transformation and Fundamental Phenomena
195	351	In-situ Measurement of Elasticity During Thermally Induced Phase Changes Using Dove Prism-Enhanced Transient Grating Spectroscopy	Pavla Stoklasová	Poster	14) Advanced Characterization Methods for Martensitic Materials
196	352	Isothermal behavior of reverse ε → γ martensitic transformation in Fe-Mn-Si functional alloys with shape memory effect	Boris Kustov	Oral	1) Theory of Martensitic Transformation and Fundamental Phenomena
197	353	Angular dependence in magnetically induced reorientation	David Hruška	Poster	16) Magnetic Shape Memory Phenomena
198	354	Nanotwinning and magnetoelastic coupling in Ni-Mn-based Heusler compounds from first principles	Markus Gruner	Oral	3) First Principle Calculations and Atomistic Modelling of Martensitic Materials
199	355	Microstructural aspects of bcc-hcp-fcc displacive transformations in annealed HEA melt spun ribbons	Wojciech Maziarz	Poster	8) High Entropy Alloys with Martensitic Transformation
200	356	Optimizing NiTi Interatomic Potentials Through Atomic Cluster Expansion	Petr Šesták	Poster	3) First Principle Calculations and Atomistic Modelling of Martensitic Materials
201	357	Effects of Chemistry and Annealing Treatments on HTSMA Ni-Ti-Hf-Nb Alloys	Alberto Coda	Oral	7) High Temperature Shape Memory Alloys
202	358	Shear and shuffle-based mechanisms in modulated NiMnGa alloys	Robert Chulist	Oral	1) Theory of Martensitic Transformation and Fundamental Phenomena

	A	B	C	D	E
203	359	In-situ DMA studies during thermomechanical loading of NiTi wires	Elizaveta Iaparova	Oral	18) Deformation Mechanisms in Martensitic Materials
204	360	Influence of Particle Size and Microstructure on the First-Order Magnetostructural Phase Transition in Ni-Mn-Sn Heusler Alloy	Johannes Puy	Poster	23) Applications: Calorics and Energy Harvesting
205	361	Search for criterion for martensitic transformation in ferromagnetic Heusler alloys	Michal Rameš	Poster	16) Magnetic Shape Memory Phenomena
206	362	Micro crack growth in NiTi based shape memory alloys	Jan Frenzel	Oral	20) Fatigue and Fracture of Martensitic Materials
207	363	New generation of Shape Memory Alloys (SMAs) for elastocaloric solid-state heat pumps	Jan Pilch	Oral	17) Elastocaloric and Multicaloric Phenomena
208	364	Additive Manufacturing Meets Multicalorics: Microstructure Design of Heusler Alloys for Multi-Stimuli Cycling	Franziska Scheibel	Oral	17) Elastocaloric and Multicaloric Phenomena
209	365	Influence of Sputtering Parameters on Functional and Mechanical Behavior of Ni-Rich NiTi Films	Andersan dos Santos Paula	Poster	15) Low-dimensional Structures: Thin Films and Wires, Nanoparticles
210	366	Supercompatibility and nucleation in martensite	Mohd Tahseen	Oral	4) Martensitic microstructures – Experiments and Modelling
211	367	A numerical tool to predict the dynamical behavior and the damping effect of Shape Memory Alloys: Application for design of NiTi based passive dampers.	Frédéric THIEBAUD	Oral	22) Applications: Medical Devices, Actuators, and Vibration Damping
212	368	Advances in Powder Sintering-Based Binder Jet Additive Manufacturing of NiTi-Cu Shape Memory Alloys: Opportunities and Challenges	Mohammad Elahinia	Oral	13) Additive Manufacturing of Martensitic Materials
213	369	Effect of Fast Laser Shape Setting on Functional Performances of Thin NiTiHf based Shape Memory Alloy for High Temperature Applications	Carlo Alberto Biffi	Oral	7) High Temperature Shape Memory Alloys
214	370	Elastic instabilities in NiTi shape memory alloy	Petr Sedlak	Oral	1) Theory of Martensitic Transformation and Fundamental Phenomena
215	371	NiTi-Hf Shape Memory Alloys via Binder Jet Printing: Materials Insights and Process Strategies	Mohammad Elahinia	Oral	7) High Temperature Shape Memory Alloys
216	372	Martensitic phase transformations in a compositionally graded thin film	Ole Martin Løvvik	Oral	15) Low-dimensional Structures: Thin Films and Wires, Nanoparticles
217	373	Martensite Textures and Recoverable Strain Limits of NiTi: Taylor Model vs. Experiment	Luděk Heller	Oral	4) Martensitic microstructures – Experiments and Modelling
218	374	Demagnetization tensor for a parallelepiped with a mirror symmetry in the xy plane and its use for magnetically induced reorientation in Ni-Mn-Ga crystal sample.	David Vokoun	Oral	16) Magnetic Shape Memory Phenomena
219	375	Simulating the early stages of martensite band formation in pseudoelastic wires	Maximilian Hinze	Oral	1) Theory of Martensitic Transformation and Fundamental Phenomena
220	376	Huge Adiabatic Temperature Change Induced by Stress in a High-Toughness All-d-metal Heusler Alloy	Zhiyang Wei	Oral	11) Novel Functional Behaviors
221	377	Martensitic transformation in Heusler alloy nanostructures	Michal Varga	Poster	15) Low-dimensional Structures: Thin Films and Wires, Nanoparticles

	A	B	C	D	E
222	378	Additive manufacturing of metamagnetic shape memory alloys: heat exchangers for magnetic refrigeration	Daniel Salazar	Oral	23) Applications: Calorics and Energy Harvesting
223	379	Is there a single-variant martensite → austenite strain-compatible pathway in NiTi?	Hanuš Seiner	Oral	1) Theory of Martensitic Transformation and Fundamental Phenomena
224	380	Crystallographically compatible ceramic shape memory materials	Eckhard Quandt	Oral	2) Design of Martensitic Materials
225	381	Competing effects of grain refinement and Cr23C6 carbide precipitation on martensitic transformation behavior in low-Ni austenitic stainless steel	Yeonggeun Cho	Oral	18) Deformation Mechanisms in Martensitic Materials
226	382	Modulated structures & Elasticity: On the road towards understanding the supermobility in Ni-Mn-Ga	Tomáš Grabec	Oral	1) Theory of Martensitic Transformation and Fundamental Phenomena
227	383	Structural-functional integrated TiBw/Ti–V–Al lightweight shape memoryalloy composites	Xianglong Meng	Oral	6) Novel Shape Memory Alloys
228	384	Microstructure and Elastocaloric Effect of a Ti-Ni-Zr-Sn Shape Memory Alloy	Zhiyong Gao	Oral	17) Elastocaloric and Multicaloric Phenomena
229	385	Scanning twin boundary mobility in 10M martensite of Ni-Mn-Ga alloy from subatomic to macroscopic scale	Sergey Kustov	Oral	16) Magnetic Shape Memory Phenomena
230	386	3D Characterization of Austenite-Martensite Microstructures During Mechanical Loading Using In Situ Dark-Field X-Ray Microscopy and X-Ray Topotomography	Ashley Bucsek	Oral	14) Advanced Characterization Methods for Martensitic Materials
231	387	Precipitation-controlled transformational and mechanical characteristics on all-d-metal Ni-Co-Mn-Ti Metamagnetic Shape Memory Alloys	Joan Miquel Vaquero-Crespí	Oral	6) Novel Shape Memory Alloys
232	388	Substrate-induced martensitic transformation in thin epitaxial Ni-Mn-Ga films	Matěj Makeš	Poster	16) Magnetic Shape Memory Phenomena
233	389	High-resolution strain-field mapping during nucleation and propagation of martensite bands in pseudoelastic NiTi	Martin Wagner	Oral	5) Continuum-level Modelling of Mechanics of Martensitic Materials
234	390	Elastic moduli measurements in 10M martensite of Ni-Mn-Ga-based alloys with commensurate and incommensurate lattice modulation	Andrey Saren	Oral	16) Magnetic Shape Memory Phenomena
235	391	Exploring Crack Dynamics and Actuation Fatigue in NiTiHf High-Temperature Shape Memory Alloys with High Hf Content	BENAT KOCKAR	Oral	7) High Temperature Shape Memory Alloys
236	392	Modulation of NI2MnGa described by generalized susceptibility based on Wannier functions.	Dominik Váňa	Poster	18) Deformation Mechanisms in Martensitic Materials
237	393	Influence of Ni-content and Precipitates on the Mechanical and Actuation Fatigue Crack Growth of NiTiHf High-Temperature Shape Memory Alloys	Kadri Atli	Oral	20) Fatigue and Fracture of Martensitic Materials
238	394	A Fast-Track Approach to Ti–20Nb–6Ta Alloy via PBF-LB for Biomedical Applications	João Felipe Queiroz Rodrigues	Poster	13) Additive Manufacturing of Martensitic Materials
239	395	Elastic and Thermal Properties of NiTi investigated by Transient Grating Spectroscopy	Jakub Kušnír	Oral	14) Advanced Characterization Methods for Martensitic Materials
240	396	Constitutive modeling of martensite plasticity and TRIP in polycrystalline shape memory alloys	Miroslav Frost	Oral	5) Continuum-level Modelling of Mechanics of Martensitic Materials

	A	B	C	D	E
241	397	Antiphase boundaries in Ni2MnGa: an atomistic perspective	Jan Zemen	Oral	3) First Principle Calculations and Atomistic Modelling of Martensitic Materials
242	398	Microstructural features of NiMnGa polycrystalline alloys manufactured by rapid solidification methods	Anna Wojcik	Oral	13) Additive Manufacturing of Martensitic Materials