



11th INTERNATIONAL SYMPOSIUM ON HIGH-TEMPERATURE CORROSION AND PROTECTION OF MATERIALS

Helios Hotel - Les EMBIEZ (Var) France – June 9-14, 2024

POSTER SESSIONS

MONDAY JUNE 10

SESSION A – FUNDAMENTALS

121	Effect of Additive Elements on Microstructure of Inner Oxide Scale Formed on Fe-Ni Alloy Harashima, Aya (Nippon Steel Corporation, Japan)
134	Kinetic Study Of Nitrogen During Oxidation Of Commercially Pure Titanium and TiXT Alloy In Air At 650°C Pacorel, Victor (ICB, Université de Bourgogne, France)
135	Influence Of The Surface Condition On The High Temperature Oxidation Behavior of Commercially Pure Titanium In Air Pacorel, Victor (ICB, Université de Bourgogne, France)
140	Effects of Brazing on the Oxidation Behavior of Honeycomb Seal Material Haynes 214 Vogler, Jonas (University of Bayreuth, Germany)
142	Interaction of Cr ₉ Si ₈ with Ceramic Systems considered for Casting Molds and Thermal Barrier Coatings at Temperatures beyond 1150°C Pelchen, Lucas (University of Bayreuth, Germany)
155	Insights into the Oxidation Mechanism in Binary Metallic Alloys Via Sequential Isotopic Oxidation Tests and SIMS Analysis: Unraveling the Formation of Duplex Oxide Scales at High Temperatures in Oxidizing Environments Diez Mayo, Sergio (Université Paris-Saclay/CEA, France)
163	High Temperature Breakaway Corrosion of Stainless Steels under N ₂ /(4.2-8.4)O ₂ +20H ₂ O Gases Abro, Muhammad Ali (Institut de la Corrosion, France)
189	Perspectives on heat transfer fluids in CSP: The effect of nanomaterials on corrosivity Pineda, Fabiola (Universidad Mayor, Chile)
195	Role of diffusion-induced grain boundary migration in the oxidation response of Ni-30Cr Marquis, Emmanuelle (University of Michigan, United States of America)

210	Surface Analysis and Corrosion Resistance of a CuNiAl +NPs CeO ₂ On Carbonate Molten Martinez Ugalde, Carola (Universidad de La Frontera, Chile)
215	Geometry Related Depletion Processes in Ferritic Stainless Steels during High Temperature Oxidation Vakhrameev, Daniil (Forschungszentrum Jülich GmbH, Germany)
222	High-Temperature Corrosion On Nickel-Based Alloy In Molten Carbonates For Concentrated Solar Power Applications Pérez Trujillo, Francisco Javier (Complutense University, Spain)
230	High Temperature Intergranular Oxidation of Nickel Based Superalloy Inconel 718 Madhusudan, Sudhanva (CIRIMAT, Institut National Polytechnique Toulouse , France)
233	Microstructure Development of Oxide Scale Formed on Fe-9Cr Alloy during Initial Oxidation in Dry CO ₂ Ueda, Mitsutoshi (Tokyo Institute of Technology, Japan)
235	High Temperature Oxidation Behavior of Nickel-based alloys in flowing air at 800°C Kumar, Sharvan (CIRIMAT, Institut National Polytechnique Toulouse , France)
238	Experimental Insights and Kinetic Modeling of the Thermal Decomposition of Boron Phosphide at high temperature Tahan, Yves (IRCER, France)
267	Very Long Transient Oxidation of a Nickel-based Single Crystal Superalloy at 850-900°C Batiste, Martin (CIRIMAT, Institut National Polytechnique Toulouse , France)
281	Investigation of the corrosion induced by fission products on the steel fuel cladding in SFR Reactors Oulfarsi, Mostafa (Université Paris-Saclay, CEA, France)
294	Growth of a single MnCr ₂ O ₄ spinel on Ni-25Cr-1.5Mn alloy by the Rhines pack method and photoelectrochemical and Raman signatures of MnCr ₂ O ₄ spinel Perez, Thomas (Université de Lorraine, Institut Jean Lamour, France)

SESSION B – MOLTEN SALT AND DEPOSIT INDUCED CORROSION

117	Hot corrosion of platinum-containing model γ , γ' and real TROPEA superalloy Hunault, Louis (Université de La Rochelle. LaSIE, France)
138	HOT CORROSION BEHAVIOR OF AD730 AT 650°C Diomande, Djénéba (Université de Lorraine, Institut Jean Lamour, France)
145	Low Temperature Hot Corrosion Behavior of DS200+Hf Nickel-Based Superalloy Dufour, Grégoire (Université de Lorraine, Institut Jean Lamour, France)
164	Breakdown Behavior of a Protective Cr-rich Oxide Scale Formed on Heat-Resistant Steels in Corrosive Gases Atmosphere with Alkali Salt Vapor Furugaki, Takashi (TAKUMA CO., LTD, Japan)
166	Screening of materials in molten chloride : a comparative study Malacarne, Romain (CEA, France)
175	High Temperature Corrosion of a FeCrNi Alloy by Alkali Salts under Complex Atmosphere Menet, Claire (Veolia Recherche et Innovation (VERI), France)
177	Accelerated discovery of materials resistant to molten salt corrosion Vernouillet, Annabelle (Université Paris-Saclay, CEA, France)
178	Corrosion behavior of Ni-based alloys in a ternary NaCl–CaCl ₂ –BaCl ₂ molten salt Zhao, Qingqing (Institute of Metal Research, Chinese Academy of Sciences, China)
188	Kinetic Evaluation of the Sulfation reaction of NiO and CoO transient oxides in air + SO ₂ at 650°C Peruse, Elise (Université de Lorraine, Institut Jean Lamour, France)

196	Temperature Gradient Study on High Temperature Corrosion of Inconel625 Exposed to Lithium Fluoride Nikbakht, Aida (Chalmers University of Technology, Sweden)
203	Hot Corrosion of Al-, AlSi- Slurry Coated and Ni20Cr HVOF Coated Ferritic Martensitic 92 Grade Steel in Cl-rich Biomass Model Environment Boissonnet, Germain (La Rochelle Université, France)
217	The impact of HCl on alkali-induced corrosion of stainless steels and FeCrAl alloys at 600°C: The story after breakaway Ssentenza, Vicent (Chalmers University of Technology, Sweden)
225	High temperature oxidation and corrosion behavior of nickel-based alloys at 900°C – comparison of pack and slurry chromizing Kerbstadt, Michael (Dechema-Forschungsinstitut, Germany)
239	Comparison Of Performance of NiCr ₂ O ₄ and Cr ₂ O ₃ Formed on the Ni-based Alloy RR1000 Under Corrosive Conditions Taylor, Mary Patricia (University Of Birmingham, United Kingdom)
301	Chemical degradation of the ternary Al ₂ O ₃ -YAG-ZrO ₂ eutectic ceramic by molten CMAS Portebois, Léo (Université de Lorraine, Institut Jean Lamour, France)

SESSION C – MODELING, PREDICTION, SIMULATION

118	Computational Design And Experimental Characterization Of Complex Concentrated Alloys For Nuclear Applications Riahi, Koutheir (Ecole des Mines de Saint-Etienne, France)
170	Segmentation and Metallographic Evaluation of Slurry Coatings Using Machine Learning Techniques Juez Lorenzo, Maria del Mar (Fraunhofer Institut Chemische Technologie, Germany)
192	Mechanics of oxidation of zirconium alloys: deformation, interface undulation, and cracking Barberis, Pierre (Framatome - CRC UGINE, France)
211	Nonlinear reactive diffusion during the formation of the amorphous Ni silicide at the nanoscale Mangelinck, Dominique (IM2NP-CNRS-AMU, France)
252	Pt effect on the bond-coating/superalloy interdiffusion: Case of a NiCoCrAlYTa coating Vande Put, Aurélie (CIRIMAT, Institut National Polytechnique Toulouse , France)
253	Simulation of Grain Boundary Diffusion during Internal High Temperature Corrosion with the Cellular Automata Approach Seregin, Aleksei (RWTH Aachen, Germany)
279	Influence of Ni on the high temperature nitriding of high alloyed steels – Mechanistic study using Calphad- and experimental methods Olivas, Andrea (Swerim AB, Sweden)
293	Stepwise Multi-Temperature Thermogravimetric Analysis (SMT-TGA) for Rapid Alloy Development Enjalbert, Hugo (CIRIMAT, Institut National Polytechnique Toulouse , France)
302	Modeling The Growth Kinetics And Morphology Of Oxides On Chromium-Rich Steels Bellaich, Valentin (Université Paris-Saclay, ONERA, France=

TUESDAY JUNE 11

SESSION D – OXIDATION IN COMPLEX ATMOSPHERE

120	Chlorine-induced High-temperature Corrosion Behavior of Pt-modified Aluminide Coating in Marine Environment Baو, Zebin (Institute of Metal Research, Chinese Academy of Sciences, China)
122	High Temperature Degradation of Ferritic Stainless Steels Exposed to H ₂ O- and CO ₂ -containing Gas Mixtures: A Review Chandra-ambhorn, Somrerk (King Mongkut's University of Technology North Bangkok, Thailand)
127	Type-II hot corrosion behavior of a single-crystal nickel-based superalloy Piel, Damien (La Rochelle universit� (LaSIE), France)
167	Study of the Aging of Al-based Powder Used in Additive Manufacturing: Corrosion Kinetics and Surface Analysis Favergeon, Loic (Mines Saint-Etienne, France)
168	Comparison of steam oxidation behavior of Ni based alloy manufactured by Laser Power Bed Fusion at high temperature for 500 hours Dudziak, Tomasz, Pawel (Krakow Institute of Technology, Poland)
171	Corrosion behavior of TiAl-based alloys in water vapor conditions and protection by magnetron sputtered coatings Laska, Nadine (Deutsches Zentrum f�r Luft- und Raumfahrt, Germany)
187	Understanding Ferritic Stainless Steel Interconnect Degradation at Low pO ₂ and Low Temperature in Solid Oxide Cells Krogsgaard, Thorbj�rn (Chalmers University of Technology, Sweden)
202	About the measurement of the mass loss due to CrO ₂ (OH) ₂ volatilization during the oxidation of chromia-forming alloys in air + water vapor in hydrodynamic and static (TGA) conditions Jacquard, Bruno (Universit� de Lorraine, IJL, France)
204	Development of a new versatile burner test rig dedicated to high-temperature oxidation and corrosion Vilasi, Pauline (IRT-M2P, France)
213	Utilization of Alumina Scale Formation on Ni-base Alloys for High Temperature Oxidation and Corrosion Resistance in Harsh Environments Li, Bingtao (Haynes International, United States of America)
242	Exploring Fission-Fusion Synergies to Accelerate Compatibility Understanding Pint, Bruce (Oak Ridge National Laboratory, United States of America)
249	Effect of Cr content on the hydrothermal corrosion behavior of FeCrAl alloys Bell, Samuel Bernat Walker (Oak Ridge National Laboratory, United States of America)
257	High-Temperature Corrosion Behavior of Various Alloys in Ar-10H ₂ O Containing Ammonia at 800�C Yoneda, Suzue (Hokkaido University, Japan)
270	Selective Oxidation of FeAlMn Ferritic Alloys During Continuous Annealing Robert, Ludivine (ArcelorMittal Maizi�res Research, France)
276	Comparison of Pre-Oxidation Simulations on Advanced High Strength Steels by Hot and Cold Wall Techniques Rom�, Mathilde (Universit� Paris-Saclay, France)

SESSION E – MECHANICAL ASPECTS OF HIGH TEMPERATURE CORROSION

104	Water Vapor Influence on a Nickel-based Alloy NY600 Oxidation – Residual Stress Determination Buscail, Henri (Université Clermont Auvergne, France)
106	Micro-nanogauge Design and Fabrication for Mechanical State Monitoring of Metallic Materials during High Temperature Oxidation up to 1000°C Kheir Al Din, Malak (Université de Technologie de Troyes, LASMIS, France)
128	High-energy X-rays diffraction in transmission mode to get the in-depth stress distribution in NiCr alloys oxidized at high temperatures Panicaud, Benoit (LASMIS, UTT, France)
148	Friction stir process pretreatment to improve oxidation resistant of Ti6242S alloys at high temperature in air Lavisse, Luc (ICB, Université de Bourgogne, France)
159	The Influence of Rotary Shot-Peening on the Adhesion of the Thermal Oxide Scales of Pure Titanium and Ti6242 Titanium Alloy Optasanu, Virgil (ICB, Université de Bourgogne, France)
231	High Temperature Oxidation-Erosion Behavior of Candidate Materials for Concentrated Solar Power Plants with Ceramic Particle Receivers Lebendig, Florian André (Forschungszentrum Jülich GmbH, Germany)
243	Effect of Dissolved Oxygen on Stress Corrosion Cracking of 316L Stainless Steel in Nuclear Primary Environment Fayolle, Charles (Université Paris-Saclay, CEA, France)
248	Oxidation and a Novel Zirconium Diffusion Coating to Improve the Tribological Properties of Titanium alloys Öztürk, Beyza (DECHEMA Research Institute, Germany)
251	Structural materials for nuclear reactors cooled with liquid Pb or Pb-Bi: their behavior in the presence of liquid metal and under mechanical stress Proriol Serre, Ingrid (Unité Matériaux et Transformations, France)
256	Impact Of Oxygen Concentration On Active Deformation Systems In Pure Titanium Bernard, Jérémy (Institut Clément Ader, France)
258	A combined experimental-numerical approach for determining mechanical properties of oxidized CP titanium subject to nanoindentation Dziri, Ayyoub (Institut Clément Ader, France)
273	Use of In Situ SEM Multiple Cracking Test to Correlate Crack Propagation Mode in Thermal Oxide Scales with Acoustic Emission Signals Favergeon, Jérôme (Laboratoire Roberval, Université de Technologie de Compiègne, France)
274	Influence of Oxidation Temperature on the Tensile Behavior of a 2.5 D Needled Carbon/Carbon Composite for Aircraft Brakes Zubiaurre, Théo (Laboratoire Roberval, Université de Technologie de Compiègne, France)
283	Investigation of calcium-magnesium-alumina-silicate (CMAS) impact in thermal barrier coating (TBC) interfacial crack propagation through LASER Shock for DAMAGE Monitoring (LASDAM) method Billard, Capucine (Mines Paris PSL University, France)
300	Study of TBCs in Water Vapor Environment using the LASER Shock for DAMAGE Monitoring (LASDAM) methodology Degouilles, Elliott (MinesParis - PSL, France)
303	Oxidation behavior of two ferritic stainless steels (Fe-21.8Cr-3.1Si and Fe-22.8Cr-0.4Mn) Menoun, Ouardia (Laboratoire Roberval, Université de Technologie de Compiègne, France)

SESSION F – COATINGS (PART I)

108	Oxidation resistance and hardness evolution of flame sprayed coatings on C45 steel based on 304L and 316L/Z100 wastes in steam at 700°C for 500 hours Kateusz, Filip (Krakow Institute of Technology, Poland)
116	High Temperature performance of coated and uncoated ferritic stainless steel interconnects for Solid Oxide Electrolyzer Cell application Bouvier, Mathilde (Université Paris-Saclay, CEA, France)
126	Effect Of Oxidation With Aluminum Coating On The NY600 Carburization At 900°C Issartel, Christophe (LVEEM, France)
132	Development of Ni-based alloy containing high Fe for heat exchanger tubes installed in fluidized bed boiler Murasue, So (Ebara Environmental Plant Co., Ltd., Japan)
137	Isothermal and Cyclic Oxidation Behaviour of Overlay Coatings with Stainless-Steel Recycled Powders Kepa, Thomas (Université de La Rochelle, France)
160	Pt-modified Aluminide Coatings Obtained by Novel Pt Chemical Deposition Method: Manufacturing and Comparison with Standard Pt-aluminides Pedrizzetti, Giulia (Sapienza University of Rome, Italy)
161	Understanding Corrosion of CoNiCrAlY Metallic Coatings Under Thermal Cycling Conditions with Simultaneous Deposit Injection Chikhalikar, Atharva Shashank (University of Minnesota, USA)
172	The co-electrodeposition of Ni/Co-W and Cu/Co-W alloy on type 445 stainless steel for application in SOFC interconnects Thublaor, Thammaporn (King Mongkut's University of Technology North Bangkok, Thailand)
179	Aluminizing of Electroless Ni Coatings for Corrosion Protection in Concentrated Solar Power (CSP) Plants Operating with Molten Salts Genova, Virgilio (Sapienza University of Rome, Italy)
181	Improved Corrosion Resistance of Slurry Coated Austenitic Steel in Molten Carbonates Doped with Nanoparticles for Thermal Energy Storage Technologies Audigié, Pauline (Instituto Nacional de Técnica Aeroespacial INTA, Spain)
193	Influence of Coating Deposition Process Parameters on Sustainability of Slurry Aluminide Coatings Exposed in Molten Nitrate and Carbonate Salts at High Temperature Oger, Loïc (Instituto Nacional de Técnica Aeroespacial (INTA), Spain)
214	Long Term High Temperature Oxidation Experiments of Slurry Aluminized DADI: Focus on Microstructural Aspects Tsursumia, Olga (Complutense University of Madrid, Spain)
234	Synthesis of Cobalt Oxide Coating On ferritic stainless steel by DLI-MOCVD to improve interconnect performance in SOEC Chanson, Romain (CEA Saclay, France)
236	Protective Slurry Coatings Against Liquid Metal Corrosion Portebois, Léo (Université de Lorraine, Institut Jean Lamour, France)
240	Influence of a Thin Cr Deposit on the Reactivity of Stainless Steels: a Chemical, Microstructural and Mechanical Study Parry, Valerie (Université Grenoble Alpes, Grenoble-INP, SIMaP, France)
247	High-Temperature Corrosion Of Intermetallics In Contact With Molten Glass Hartbauer, Michelle (University of Bayreuth, Germany)

THURSDAY JUNE 13

SESSION F – COATINGS (PART II)

133	Oxidation Behavior of a Mo-Si-B-Ti Alloy Perepezko, John H (University of Wisconsin-Madison, United States of America)
149	Study Of The Glass Seal - Interconnector Interactions In Solid Oxide Electrolysis Cells For Green Dihydrogen Production Germain, André (Université Paris-Saclay, CEA, France)
154	Corrosion of silicate-based environmental barriers by molten sands at 1400°C: protection of SiC/SiC composites for aircraft engines Rebillat, Francis (University of Bordeaux, France)
162	Lifetime Assessment and Modeling of Environmental Barrier Coatings (EBC) for SiC/SiC Ceramic Matrix Composites in High-Temperature Aircraft Engine Environments Quemeras, Lallie (ThermoStructural Composites Laboratory, France)
184	Microstructural evolution of a CMSX4 Plus coated γ - γ' system during thermal cycling Radi, Niama (MINES Paris, Université PSL, France)
185	Oxidation behavior of additively manufactured Ni-based alloy protected by Al and Al/Si diffusion coatings Duval, Antoine (LaSIE, France)
199	Research on Thermal Cycling and Interfacial Failure Mechanism of EB-PVD Thermal Barrier Coating with Pt-modified γ' Bond Coats Li, Shuai (Institute of Metal Research Chinese Academy of Sciences, China)
209	Atmospheric PECVD for the surface treatment of energy components: Dense complex oxide coatings deposition Mallmann, João Gustavo (CEA, France)
224	Effect of Bond Coating Surface Morphology on the TBC System Lifetime Monceau, Daniel (CIRIMAT, Institut National Polytechnique Toulouse , France)
227	Innovative cobalt-oxide based coatings prepared by Atomic Layer Deposition (ALD) and Direct-Liquid Injection Chemical Vapor Deposition (DLI-CVD) for Solid Oxide Electrolyzer Cells (SOEC) interconnects Delbreuve, Juliette (Université Paris-Saclay, CEA, France)
228	Understanding And Modeling CMAS And Thermal Barrier Coating Interactions Under Thermal Gradients Brunet, Thomas (ONERA, Université Paris-Saclay, France)
284	Damage Evolution in Thermal Barrier Coating Under Thermal Gradient Mechanical Fatigue (TGMF) Loading Ben Romdhane, Emna (MINES Paris - PSL, France)
292	Influence of CaO Coatings on Oxidation of Nickel and Cobalt polycrystals Halem, Zohra (University Bouira, Algeria)
295	Oxidation Behavior of an Organic Silicone Coating in Moist Air at 600°C Xin, Li (Institute of Metal Research, Chinese Academy of Sciences, China)
298	Influence of the magnesia content on the stability of rare-earth silicates in CMAS-type molten silicates Saint-Jean, Louis (Université de Lorraine, France)

SESSION G – CERAMICS AND NOVEL MATERIALS

136	Synthesis of Ultra High Temperature Ceramics by Spark Plasma Sintering: non-reactive and reactive routes Menard, Timothé (Thermostuctural composite laboratory (LCTS), France)
139	The Influence of Si on the High Temperature Oxidation of Near-alpha Titanium Alloys Optasanu, Virgil (ICB, Université de Bourgogne, France)
152	The Effect of Y and Si on the Oxidation of FeAlCrNiV0.5 Complex Concentrated Alloy Jača, Eliška (Charles University, Prague, Czechia)
176	High-temperature oxidation of Cr ₂ AlC MAX phase: towards a better understanding of the relationship between synthesis process, microstructure and oxidation mechanism Gauthier-Brunet, Véronique (Institut PPRIME, France)
180	Characterization of new Compositionally Complex Alloys (CCAs) for Molten Salt Reactors Nasser, Mounzer (Mines Saint-Etienne, France)
182	Investigation of Multicomponent Equimolar Rare-Earth Zirconates Pflug, Jonas Johannes (Justus-Liebig-Universität Gießen, Germany)
206	Influence of Oxygen Content on the Corrosion Behavior of MoSiTi and AlCrTiMoTa Alloys in Liquid Lead at 650°C Martini, Florian Joshua (Karlsruhe Institute of Technology, Germany)
212	Synthesis of MAX phase coatings by magnetron sputter deposition: investigation of the oxidation behavior Anton, Ronja (German Aerospace Center (DLR), Germany)
226	Microstructure and oxidation behavior of silicide-based coating on Refractory High Entropy Alloy Pasini, Willian (Krakow Institute of Technology, Poland)
261	High temperature oxidation behavior of novel Cr alloys White, Emma Marie Hamilton (DECHEMA Forschungsinstitut, Germany)
269	Selection of High Temperature Resistant Alloys for a New Monitoring Technology Sensor Moerlen, Déborah (Université Grenoble Alpes, Grenoble-INP, SIMaP, France)
285	Advancements in Oxide Dispersion Strengthened High Entropy Superalloys Pavel, Michael J. (University of Alabama, United States of America)
296	Effect of Substitution of Molybdenum by Silicon on the Microstructure and Oxidation Behavior of Novel Fe-Ni-Cr-Co-Cu-Si-Mo Steels De Sousa Malafaia, Artur Mariano (Federal University of São João del-Rei, Brazil)
299	High-temperature oxidation behavior of TaNbCrTiAl(Si) refractory high entropy alloys De Sousa Malafaia, Artur Mariano (Federal University of São João del-Rei, Brazil)

SESSION H – INFLUENCE OF ADDITIVE MANUFACTURING

115	Influence of oxidizing atmosphere on oxidation of Ni-based superalloy Rene 65 Huguet, Martin (La Rochelle Université, France)
201	Oxidation Behaviour of Additively Manufactured Ti-added FeCrAl Alloys Fedorova, Irina (Kanthal AB, Sweden)
221	Corrosion Study of Additive-Manufactured Alloys in Molten Nitrates for Concentrated Solar Power Applications García Martín, Gustavo (Complutense University, Madrid, Spain)
237	Corrosion behavior of 316L stainless steel produced by wire-feed additive manufacturing processes in primary water of PWR

	Goland, Micaela (Université Paris-Saclay, CEA, France)
264	Tailoring Dispersoid-Strengthened Alloys by Additive Manufacturing for Applications at High Temperatures Jahns, Katrin (University of Applied Sciences Osnabrück, Germany)
297	High-temperature oxidation behavior of conventionally forged and DED additively manufactured Inconel 625 De Sousa Malafaia, Artur Mariano (Federal University of São João del-Rei, Brazil)

SESSION I – ADVANCED CHARACTERIZATION TECHNIQUES

111	Short Term Oxidation in SEM of the Pt-containing TROPEA Single Crystal Ni-based Superalloy from 680°C to 1000°C Mathieu, Stephane (Université de Lorraine, Institut Jean Lamour, France)
129	Influence of Pu content, temperature and pO ₂ on the oxidation of (U,Pu)O ₂ mixed oxides Berenguer-Besnard, Priscilla (CEA Marcoule, France)
143	Role of Chemical and Physical Conditions on Nitrogen Insertion During High-Temperature Oxidation of Metals in Air Lavisse, Luc (ICB, Université de Bourgogne, France)
144	Scanning Microwave Microscopy Characterization of Oxygen-Enriched Diffusion Layer in Metal: Chemical Composition and Elastic Modulus Optasanu, Virgil (ICB, Université de Bourgogne, France)
157	The Influence of Temperature on Nitrogen Insertion During the High Temperature Oxidation of Titanium in Air Optasanu, Virgil (ICB, Université de Bourgogne, France)
254	Ex-situ Measurement and Monitoring of Changes in the Optical Properties of a MCrAlY Coating During High-Temperature Oxidation Delpech, Joan (Institut Clément Ader (ICA), France)
259	Identifying the properties of brittle thin films and oxide scales by nanoindentation Braccini, Muriel (Université Grenoble Alpes, Grenoble-INP, SIMaP, France)
288	On the Use of Thermogravimetric Analysis to Measure very slow Oxidation Kinetics at low Oxygen Partial Pressure: a Study on Ni-30Cr Model Alloy Bosonnet, Sophie (Université Paris-Saclay, CEA, France)
304	Overcoming instrumental limitations in corrosion studies: case study of development of fast heating multi-balance thermogravimetric instrument Bernardeau, Fabien (KEP Technologies EMEA, France)