List of posters
(by topic and last name)

1 - Computational modeling, simulation and design of new materials and processes

2052
Micromechanically motivated damage modelling of ceramic matrix composites
FINDEISEN Claudio
Fraunhofer IWM

2317
Empirically Derived Model for Alloyed Silicon Carbide Microstructural Evolution
MARTINEZ Marco
Department of Materials Science and Engineering, Texas A&M University

2266
Research Framework for Microstructure Evolution of Silicon Carbide
MUñOZ Elias J.
Texas A&M University

2776
Ceramic Matrix Composites (CMCs): Manufacturing and Microstructural Effects on the Mechanical Properties using the Parametric HFGMC
YANNAY Omri
Tel-Aviv University & RAFAEL

2 - Fibers and preforms

1951
Fabrication of SiC fiber textiles via silicidation treatment of carbon fabrics with SiO gas
ISTOMINA Elena
Institute of Chemistry, Komi Science Centre of the Ural Branch of the Russian Academy of Sciences

2100
Evaluation of mechanical behavior of fiber fabrics with soft matrix by bending recovery test
KINUGASA Takahiko
Osaka Prefecture University

1940
The effects of weave bending angles on the integrity of Alumina fibres.
VALENZUELA Erin
University of Birmingham

3 - Interfaces and interphases

2111
Preparation of SiC/SiC minicomposite with ZrO2 interface and evaluation of interfacial mechanical properties
IKEDA Kenyu
Tokyo University of Science
Formation of BN interphase for SiCf/SiC composites using flaked BN suspension by electrophoretic deposition method

**KASAKURA Mayuko**
Tokyo Institute of Technology

Strengthening and toughening of dense ceramic matrix composites

**LIU Chidong**
*Science and Technology on Thermostructural Composite Materials Laboratory, Northwestern Polytechnical University, Xi’an*

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**4 - Innovative Design, Advanced Processing, and Manufacturing Technologies processing in composites : Oxid**

1989

Fibre-reinforced oxide ceramics with integrated CNT network produced by ceramic injection moulding

**BÖTTCHER Maike**
*Department of Lightweight Structures / Polymer Technology, Chemnitz University of Technology*

2073

Formulation of oxide suspensions for liquid processing of ceramic matrix composites

**BOUTENEL Florian**
*Institut Clément Ader, Université de Toulouse, CNRS, IMT Mines Albi, INSA, UPS, ISAE-SUPAERO*

2190

Evolution of the rheological behaviour of an aqueous suspension of geopolymeric precursors during maturation

**DUSSERRE Gilles**
*Université de Toulouse, CNRS, Mines Albi, UPS, INSA, ISAE-SUPAERO*

1864

Development of Ox/Ox composites for LPT components – mechanical properties

**FUKUSHIMA Akira**
*Mitsubishi Heavy Industries Aero Engine, Ltd.*

2374

Reaction assisted flash sintering of Al2O3-YAG ceramic composites with eutectic composition

**LIU Jinling**
*Southwest Jiaotong University*

2807

Solutions for CMC

**MARRA Livia**
*R&D BAIKOWSKI, France*

2035

Development of Ox/Ox composites for LPT components – Processing and Properties

**NISHIKAWA Kosuke**
*Mitsubishi Heavy Industries, Ltd.*

2102

Evaluation of mechanical properties of Al2O3/Al2O3 using fiber bundle composites

**YAMAMOTO Shohei**
*Tokyo University of Science*
5 - Innovative Design, Advanced Processing, and Manufacturing Technologies processing in non-oxide compo

2133
Effect of material composition and additives on the properties of C/C-SiC composites produced via the transfer/injection moulding and liquid silicon infiltration route
AHMAD Husam
Chemnitz University of Technology, Chair of Composites and Material Compounds, Germany

2140
High temperature dielectric characterization of SiC-based Ceramic Matrix Composites
CINTIO Andrea
Istituto per i Processi Chimico-Fisici, Consiglio Nazionale delle Ricerche

2866
Preparation of Core-Shell powders by a fluidized-bed CVD process for ceramic matrix manufacturing
EL MANSOURI A.
LCTS

2616
LIGHTWEIGHT CERAMIC MATRIX COMPOSITES OF B4C INFILTRATED BY AL-ALLOY
FARIA Mónica
Dept. Materials Eng. & Ceramic, CICECO

1856
Influence of the pyrolysis process parameters in the production of short fibre-reinforced C/C-SiC composites
NIER Natalia
Chemnitz University of Technology, Germany

1967
Factorial Design of Experiments for Electrophoretically Deposited Multi-Layered Fibre-Matrix Interphase Coatings
ROBERTSON Taylor
National Research Council of Canada

1949
Characterization of SiC slurry impregnated SiC/SiC composite fabricated by LSI process
SEONG Young-Hoon
Korea Institute of Energy Research

1987
Thermosetting injection moulding for shaping of C/C-SiC-ceramics: Influence of flow direction and weld lines
STILLER Jonas
Chemnitz University of Technology - Institute of Lightweight Structures

2225
Damage accumulative behavior of short carbon fiber reinforced silicon carbide under compression
TOBATA Yuta
Graduated University for Advanced Studies

1916
Fabrication of C/C-SiC composites by using high-char-yield resin
YANG Jinhua
AECC BIAM
6 - Additive manufacturing of CMCs: 3D printing, laser sintering, etc.

2055
Additive Manufacturing of Silicon Carbide parts
ARBORE Romain
CTTC

1906
Laser assisted direct consolidation of CMC
KUNZ Willy
Fraunhofer Institute for Ceramic Technologies and Systems IKTS

1726
The influence of sintering temperature on microstructure and properties of Al2O3 ceramic via 3D stereolithography printing technology
LI He
Northwestern Polytechnical University

2203
Directed Energy Deposition of eutectic oxide ceramics: from powder to near net shape parts
ODINOT Julie
DMAS, ONERA, Université Paris Saclay, F-92322, Châtillon, France

7 - Materials for Extreme Environments: Ultrahigh Temperature Ceramics (UHTCs) and Nano-laminated Terna

2051
Chemical modification of refractory carbides in a gas atmosphere of SiO
BELYAEV Ilya
Institute of Chemistry of Komi SC UB RAS

2089
The sand-wind erosion behavior of C/SiC and its effect on ablation resistance
CHENG Su
Northwestern Polytechnical University

2439
Fracture behaviour improvement of ceramic based matrix composites via microstructure architecture (FMs method)
GHASSEMI KAKROUDI Mahdi
University of Tabriz-Iran

2040
SHS/RMI process for the synthesis of Ti3SiC2/SiC ceramic matrix composites from macrosized non-powder forms of titanium metal
ISTOMIN Pavel
Institute of Chemistry, Komi Science Centre of the Ural Branch of the Russian Academy of Sciences

2125
Synthesis of High Purity Yttrium Diborocarbides Powder by High-Energy Ball-Milling and Reactive Spark Plasma
NGUYEN Van-Quyet
Powder & Ceramics Division, Engineering Ceramics Department, Korea Institute of Materials Science
Recent developments in ZrB2-based composites research in Iran

**SHAHEDI ASL Mahdi**
*University of Mohaghegh Ardabili*

### 8 - Advanced Thermal and Environmental Barrier Coatings: Processing, Properties, and Applications

**2130**
Development of Environmental Barrier Coatings on Ceramic Matric Composites assisted by LASAT

**GUIPONT Vincent**
*Mines ParisTech - PSL / Centre des Matériaux*

**1742**
Thermodynamic calculation of CVD Yttrium Silicate from Y2O3-CH3SiCl3-CO2-H2-Ar System

**HE Fang**
*Northwestern Polytechnical University*

**2070**
Self-healing behavior of Mullite-based ceramics for environmental barrier coatings

**LEE Kee Sung**
*Kookmin University*

**2310**
Processing of dense rare-earth silicates used as environmental barrier coating

**MOURET Thibault**
*Laboratoire des Composites ThermoStructuraux*

**2027**
Fabrication of Yb2Si2O7/SiC Composites for Self Healing EBC material

**NAKAYAMA Tadachika**
*Nagaoka Univ of Tech*

**2265**
Interplay between phase stability, segregation and local stresses in nanocrystalline entropy stabilized transition metal oxides

**NALLATHAMBI Varatharaja**
*Research Scholar*

**2606**
Investigation and Process Development of Electroplated NiCo-Al2O3 Alloy Composites

**SANPO Noppakun**
*SCG Chemicals Co., Ltd*

**2030**
Development of hafnia-based materials as potential environmental and thermal barrier for thruster application

**SéVIN Louise**
*ONERA/DMAS – University of Paris-Saclay, F-92322 Châtiton, France.*

### 9 - Polymer Derived Ceramics and Composites (incl. Reinforced foams)

**2227**
Dielectric property and interfacial polarization of polymer-derived amorphous silicon carbonitride

**CAO YEJIE**
*Northwestern Polytechnical University*
10 - Carbon/carbon composites

2255
Tensile strength and creep behavior of carbon-carbon composites at elevated temperature
GOTO Ken
Institute of Space and Astronautical Science, Japan Aerospace Exploration Agency

2132
Microstructural evolution of high texture and medium texture pyrolytic carbon at different temperatures
WANG Tiyuan
Northwestern Polytechnical University

2449
Effect of the deposition conditions on the microstructure of pyrolytic carbon and densification of C/C composites fabricated by ICVI
WANG Yalei
State Key Laboratory of Powder Metallurgy, Central South University, Changsha 410083, China

2446
Ablation behavior of carbon/carbon composite modified by novel solid solution boride-carbide
ZENG Yi
State Key Laboratory of Powder Metallurgy, Central South University, Changsha 410083, PR China

11 - Thermomechanical behavior and performance of Composites

2016
Thermomechanical characterization of 3D needdle Carbon/Carbon composites at very high temperature for space application.
BILLARD Capucine
LCTS

1832
Fatigue behavior and damage analysis of a LSI based 2.5D C/C-SiC composites
LI Yang
Powder Metallurgy Research Institute, Central South University, China

2632
Curved Beam Strength of Silicon Melt Infiltrated SiC/SiC Composites
TOMA Liviu
Fraunhofer ISC

2695
Building the silicon carbide nanowire network on the surface of carbon fibers: enhanced interfacial adhesion and high-performance wear resistance
YEWEI FU
Northwestern Polytechnical University, xi’an 710072, China

12 - Nondestructive Testing and Health Monitoring of Ceramic Composites

1947
Tensile testing Ceramic Matrix Composites with in-situ Computed Tomography and Acoustic Emissions for real time crack detection and imaging
BADRAN Aly
University of Colorado Boulder
Modeling nonlinear shear behaviors of 2D C/SiC z-pinned joint

CHEN Chao
Northwestern Polytechnical University

Determination of the stiffness matrix of ceramic matrix composites by ultrasonic time-of-flight measurements

FINDEISEN Claudio
Fraunhofer Intitute for the Mechanics of Materials Freiburg

Load distribution of 2D C/SiC z-pinned joints prepared by chemical vapour infiltration

LIU XIAOYING
Northwestern Polytechnical University

Electrical resistance methodologies for damage identification in CMCs

MORSCHER Gregory
University of Akron

Modeling shear failure mechanisms of 2D C/SiC composite under off-axis loadin

YI Zhang
Science and Technology on Thermostructural Composite Materials Lab., Northwestern Polytechnical University

Mechanical properties and failure mechanisms of 2D SiC/SiC composite with in-situ grown

ZHAO DONGLIN
Northwestern Polytechnical University

13 - Joining & integration

“RM-Wrap” joining technology for CMC

FERRARIS MONICA
POLITECNICO di Torino -Italy

Joining of SiC/SiC for nuclear energy production

FERRARIS MONICA
POLITECNICO di Torino -Italy

Experimental study on the feasibility of using liquid Si-Ti alloys for joining CMC via reactive infiltration process

GIURANNO Donatella
CNR-ICMATE, Genoa - Italy

Wetting behavior and reactivity of liquid Si-10Zr alloy in contact with glassy carbon and SiC

GIURANNO Donatella
CNR-ICMATE, Genoa - Italy

Functionally Graded energy recyclable ceramic-metal composites and its Applications

KWON Hansang
Pukyong National University
INTERFACIAL REACTION KINETICS AND MICROSTRUCTURAL EVOLUTION OF C/SiC COMPOSITES TO TITANIUM ALLOY JOINTS
TülBEZ Simge
Department of Metallurgical and Materials Engineering, Middle East Technical University, Roketsan Industries

14 - CMC Applications in Space Transportation

2049
Development of C/C-SiC regenerative combustor wall for scramjet engine with cooling channel
KIM Seyoung
Korea Institute of Energy Research

2077
Structural Analysis and Pressure Test for C/SiC Regenerative Cooled Hypersonic Combustor Panel
KIM Soo-Hyun
Korea Institute of Energy Research

15 - CMC Applications in Terrestrial Transportation and Industrial Systems

1834
Effect of powdered h-BN as addition on the microstructure and properties of C/C composites fabricated by chemical vapor infiltration
LI Yang
Powder Metallurgy Research Institute, Central South University

16 - CMC Application in aeronautic engines

1320
Micro-Mechanical Testing of the BN Interlayer in SiCf/SiC Composites for Aero-Propulsion
DE MEYERE Robin
University of Oxford

17 - Advanced materials for sustainable energy (incl. nuclear fission and fusion, industrial gas turbines)

1835
Thermal conductivity estimation of fully ceramic microencapsulated pellets with ZrO2 as simulated particles
DEWI Ariyani Kusuma
University of Fukui

1830
Direct Decomposition of Nitrous Oxide to Nitrogen and Oxygen Using C-type Ytterbium Oxide-Cobalt Oxide Catalysts
NUNOTANI Naoyoshi
Department of Applied Chemistry, Faculty of Engineering, Osaka University

2631
A new silicon carbide matrix for fully ceramic microencapsulated fuels
ROHIT Malik
Functional Ceramics Laboratory, Department of Materials Science and Engineering, The University of Seoul, Seoul 02504, Republic of Korea

2245
Fracture behavior of uncoated SiC woven fabric composites with SiC matrix incorporating BN particles
SHIMODA Kazuya
National Institute for Materials Science