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Carbon2018

The World Conference on Carbon

Madrid, SPAIN, July 1st-6th

Book of Abstracts

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Carbon 2018

The World Conference on Carbon

July 1st (Sun) - 6th (Fri), 2018

Madrid Marriott Auditorium Hotel & Conference Center
Madrid, Spain

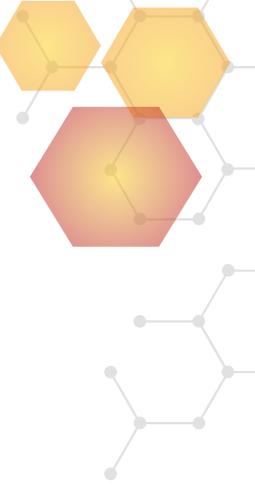
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WELCOME TO CARBON 2018, WELCOME TO SPAIN

The Spanish Carbon Group (GEC) has the pleasure to invite you to the World Conference on Carbon.

On behalf of the Spanish Carbon Group (GEC) and the European Carbon Association, I would like to cordially welcome you in Madrid for the World Conference on Carbon 2018 "Bonded by Carbon". The Spanish Carbon Group had the privilege of organising Carbon 1994 in Granada, Andalusia, and Carbon 2003 in Oviedo, Asturias. This year's Carbon Conference is in Madrid, the capital of Spain. Madrid is a vibrant and cosmopolitan city where you will feel at home. Its cultural and leisure opportunities will guarantee you a great stay during the conference.

The tradition of carbon meetings dates back to 1953, in Buffalo, USA, under the leadership of Professor Stach Mrozowski, when four papers were presented. The World Conference on Carbon has therefore come a long way and, in the present edition, more than 800 abstracts have been received, 49 of which will be presented as keynotes, 360 as oral presentations and more than 400 as posters. Additionally, five awards will be granted. In Carbon 2018, we have made a great effort to increase the number of oral presentations. In fact, we have arranged up to six parallel rooms for two days to give the floor to as many speakers as possible. Plenary lectures will be delivered by Prof. Diego Cazorla, Prof. Yuri Gogotsi, Prof. Rosa Menéndez, Prof. Maurizio Prato and Prof. Hui-Ming Cheng. Moreover, on the occasion of the conference celebration, three different satellite courses will be held. Besides, some of the communications presented may be published in one of the special issues of the journals Carbon, Electrochimica Acta and Nanomaterials.

We will receive more than 700 participants from 55 different countries of all continents, more than 200 being students. The conference provides a great opportunity for interaction between more experienced researchers and the younger generation entering the world of carbon.

The Conference would not have been possible without the effort of all the colleagues involved in the Organizing and the Scientific Committees, to whom special thanks are in order. Furthermore, we are grateful to our sponsors for the financial support.

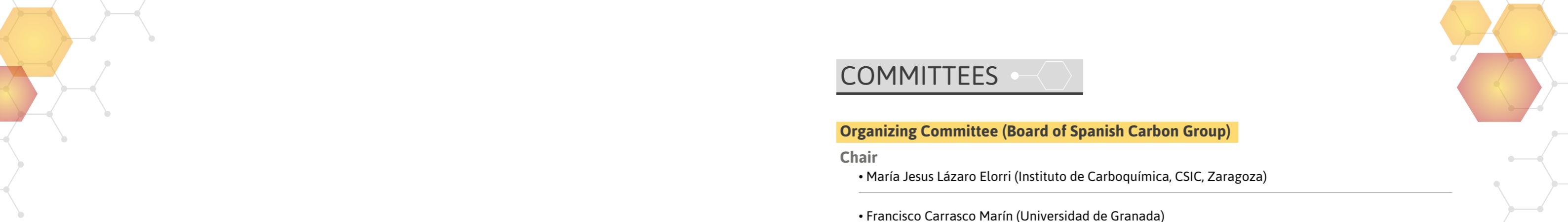
We wish all the participants an unforgettable week in Madrid and we hope you have time to discuss and interact with one another, as well as to visit the city.

Maria Jesús Lázaro

**President of the Spanish Carbon Group
Chair of the European Carbon Association**

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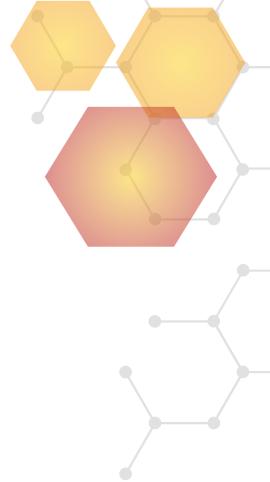
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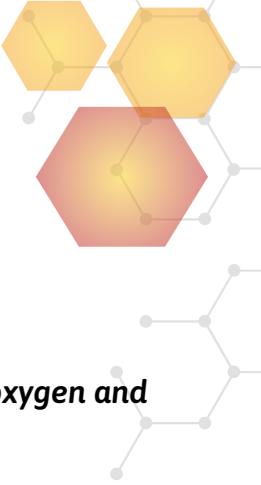
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Program



Plenary speakers



DIEGO CAZORLA AMORÓS, UNIVERSIDAD DE ALICANTE, SPAIN

"Surface (electro)chemistry of carbon materials. About the role of oxygen and nitrogen heteroatoms"

Dr. Diego Cazorla-Amorós is Professor in Inorganic Chemistry at the University of Alicante and Director of the Materials Institute of this university. He graduated in Chemistry from the University of Alicante in 1988 and obtained his PhD from this University in 1991. He spent pre- and postdoctoral stays at the Université Claude Bernard (France), Tohoku University (Japan) and Brown University (USA), among others. He became Associate Professor in 1994 at the University of Alicante and promoted as Full Professor in 2002. He is co-author of more than 230 papers and book chapters and 13 patents and has supervised 22 PhD students. His research interests include the design of a wide range of materials, including carbon materials, zeolites, mesoporous materials and metal-containing nanoparticles. He is especially interested in the synthesis, characterization and applications of different forms of carbon materials. He has made the most relevant contributions in the synthesis of high surface area porous carbons and in the modification of the surface chemistry in order to optimize their applications in the areas of environmental protection and energy storage and production.



YURY GOGOTSI, DREXEL UNIVERSITY, USA

"Transformative synthesis of carbon-based materials - from graphene to nanotubes and MXenes"

Dr. Yury Gogotsi is Charles T. and Ruth M. Bach Professor, Distinguished University Professor and Trustee Chair of Materials Science and Engineering at Drexel University. He also serves as Director of the A.J. Drexel Nanomaterials Institute. He received his MS (1984) and PhD (1986) from Kiev Polytechnic and a DSc degree from the Ukrainian Academy of Sciences in 1995. His research group works on nanostructured carbons, 2D carbynides and other nanomaterials for energy, water and biomedical applications. He has co-authored 2 books, 16 book chapters, more than 500 papers in peer-reviewed journals, edited 13 books, and obtained more than 50 patents. He was recognized as Highly Cited Researcher by Thomson-Reuters in 2014-2016 (h-index >100, Google Scholar).

He has received numerous awards for his research including the European Carbon Association Award, S. Somiya Award from the International Union of Materials Research Societies, International Nanotechnology Prize (RUSNANOPrize), R&D 100 Award from R&D Magazine (twice) and two Nano 50 Awards from NASA Nanotech Briefs. He has been elected a Fellow of the American Association for Advancement of Science (AAAS), Materials Research Society, American Ceramic Society, the Electrochemical Society, Royal Society of Chemistry, NanoSMAT Society, as well as Academician of the World Academy of Ceramics and Full Member of the International Institute for the Science of Sintering. He also serves on the MRS Board of Directors.



ROSA MENÉNDEZ, INSTITUTO NACIONAL DEL CARBÓN (CSIC), SPAIN

"State of the art and future perspectives of traditional carbon materials and new carbon forms"

Graduate and PhD in Chemistry. Full research professor at the Department of Chemistry of Materials, Instituto Nacional del Carbón (INCAR), CSIC in Oviedo, Spain. She has supervised 20 PhD theses and 22 MSc in the fields of Materials, Chemistry and Energy. She has published more than 200 papers in recognized journals and 9 patents. Main researcher in 28 projects, 10 of which belonged to European Research Programs, coordinator of 5. Awarded with recognitions such as: Schunk Carbon Award, XIX Science DuPont Award and the Spanish Materials Society to the best scientific career, among others. On parallel, she has occupied several leading positions such as director of INCAR and Vicepresident of CSIC. Active in National and International Committees, coordinator and member of several evaluation panels.



HUI-MING CHENG SHENYANG

NATIONAL LABORATORY FOR MATERIALS SCIENCE (CAS), CHINA

"Graphene Materials: Fabrication and Use in Electrochemical Energy Storage"

Dr. Hui-Ming Cheng is Professor and Director of both Advanced Carbon Research Division of Shenyang National Laboratory for Materials Science, Institute of Metal Research, the Chinese Academy of Sciences, and the Low-Dimensional Material and Device Laboratory of the Tsinghua-Berkeley Shenzhen Institute, Tsinghua University. His research activities focus on carbon nanotubes, graphene, other low-dimensional materials, energy storage materials, photocatalytic semiconducting materials, and bulk carbon materials. He has published over 500 papers with >50,000 citations and is recognized as a Highly Cited Researcher in both materials science and chemistry fields by Thomson Reuters. He used to be the Editor of Carbon and Editor-in-Chief of New Carbon Materials, and is now the founding Editor-in-Chief of Energy Storage Materials and Associate Editor of Science China Materials. He was elected as a member of Chinese Academy of Sciences and a fellow of TWAS.



MAURIZIO PRATO, UNIVERSITÀ DI TRIESTE, ITALY

"Synthesis, Properties and Applications of Functionalized Carbon Nanoforms"

Maurizio Prato graduated in Padova, where he was appointed Assistant Professor in 1983. He moved to Trieste in 1992 as an Associate Professor to become Full Professor in 2000. From 2015, he is also Ikerbasque Research Professor at CIC BiomaGUNE, Spain. He spent sabbatical terms at Yale University with Sam Danishefsky (1986-7) and at the University of California, Santa Barbara with Fred Wudl (1991-2). He was Visiting Professor at the École Normale Supérieure de Paris (2001), at the University of Namur, Belgium (2010) and the University of Strasbourg (2014). He was the recipient of an ERC Advanced Research Grant, European Research Council, in 2008 and became a Member of the National Academy of Sciences (Accademia Nazionale dei Lincei) in 2010.

His research focuses on the synthesis and applications of new functional materials, for the study of their optical and electrochemical properties. Especially, he has worked on the functionalization of carbon nanostructures, including fullerenes, carbon nanotubes and graphene. He developed a series of organic reactions that make these materials more biocompatible, less or even non toxic, amenable to further functionalization, and easier to manipulate. Presently, he is interested in transferring the properties of these materials into applications, which include the possibility of spinal cord repair, the splitting of water, and the reduction of carbon dioxide into useful chemicals.



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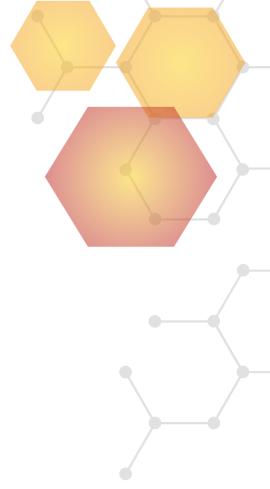
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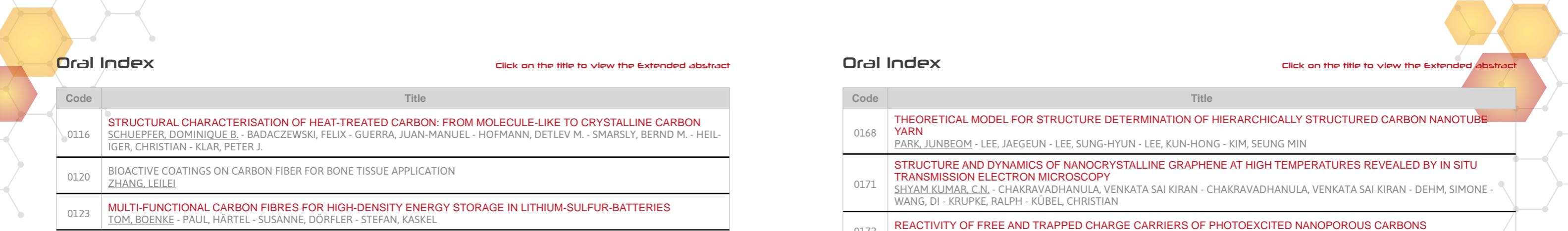
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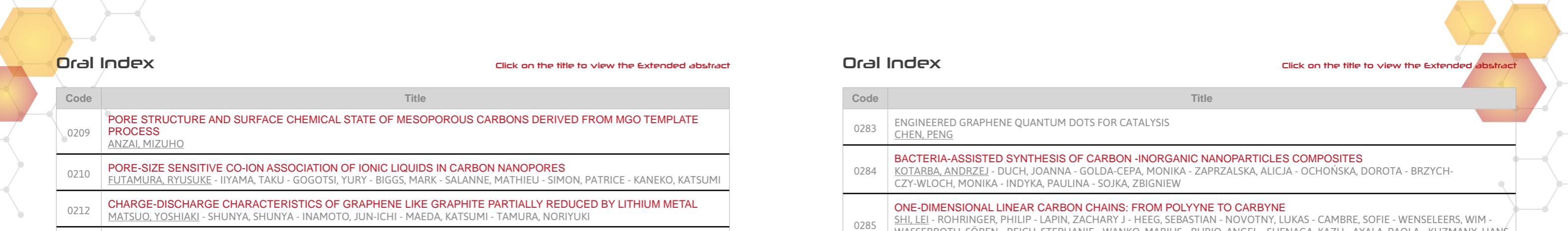
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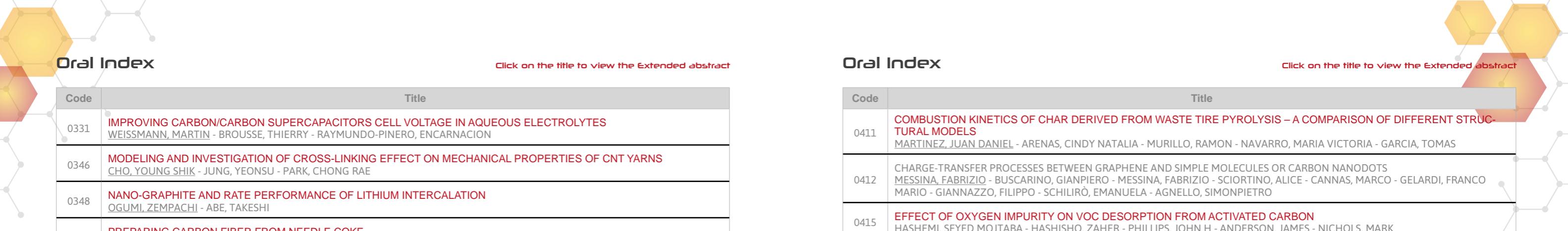
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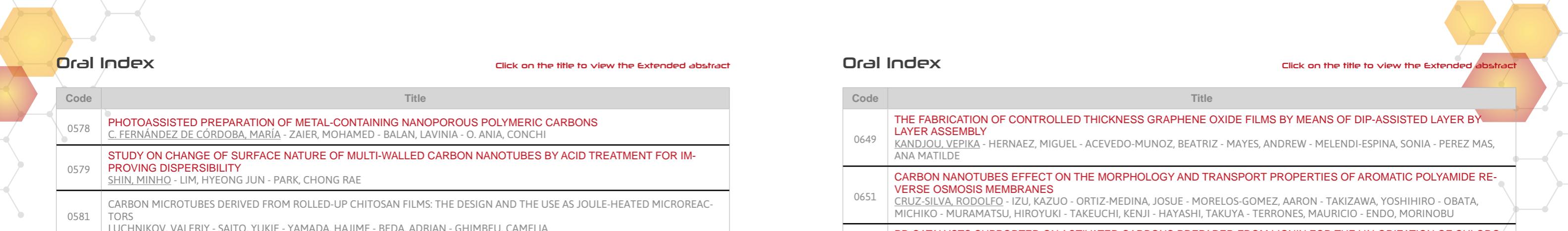
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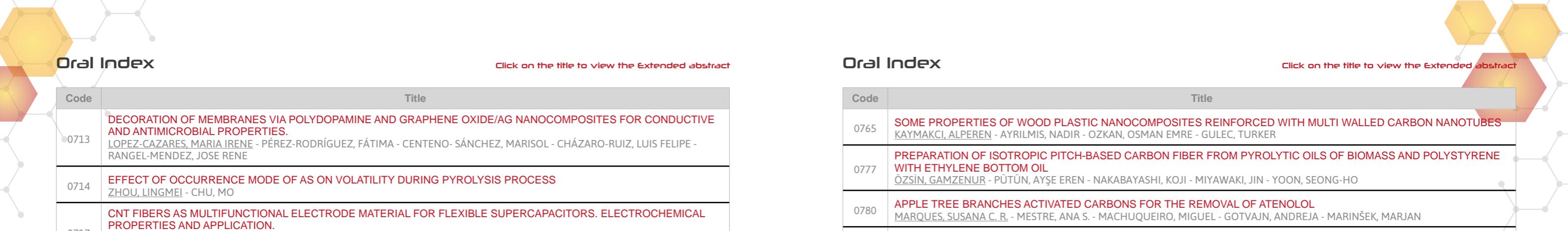
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