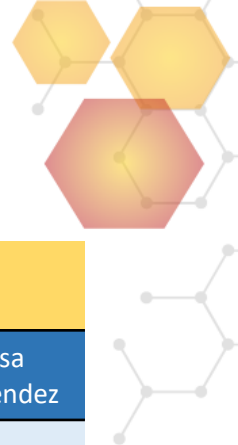




Scientific program

Sunday 1 st		Monday 2 nd		Tuesday 3 rd		Wednesday 4 th		Thursday 5 th		Friday 6 th							
9:00-9:30	Open Ceremony Plenary Lecture ROSA MENEDEZ Instituto Nacional del Carbón (CSIC) Spain	Coffee Break		Coffee Break		Coffee Break		Coffee Break		Coffee Break							
9:30-10:00		T02 (R4)	T04 (R5)	T06 (R1)	T07 (R3)	T09 (R2)	T08 (R3)	T07 (R6)	T08 (R3)	T01 (R5)	T02 (R4)	T05 (R2)	T06 (R1)	T07 (R6)	T08 (R3)	T09 (R2)	T10 (R4)
10:00-10:30	Coffee Break	T02-K (R4)	T04-K (R5)	T06-K (R1)	T07-K (R3)	T09-K (R2)	T08-K (R3)	T07-K (R6)	T08-K (R3)	T01-K (R5)	T02-K (R4)	T05-K (R2)	T06-K (R1)	T07-K (R6)	T08-K (R3)	T09-K (R2)	T10-K (R4)
10:30-10:45		T02 (R4)	T04 (R5)	T06 (R1)	T07 (R3)	T09 (R2)	T08 (R3)	T07 (R6)	T08 (R3)	T01 (R5)	T02 (R4)	T05 (R2)	T06 (R1)	T07 (R6)	T08 (R3)	T09 (R2)	T10 (R4)
10:45-11:00	Coffee Break	T02 (R4)	T04 (R5)	T06 (R1)	T07 (R3)	T09 (R2)	T08 (R3)	T07 (R6)	T08 (R3)	T01 (R5)	T02 (R4)	T05 (R2)	T06 (R1)	T07 (R6)	T08 (R3)	T09 (R2)	T10 (R4)
11:00-11:15		T02 (R4)	T04 (R5)	T06 (R1)	T07 (R3)	T09 (R2)	T08 (R3)	T07 (R6)	T08 (R3)	T01 (R5)	T02 (R4)	T05 (R2)	T06 (R1)	T07 (R6)	T08 (R3)	T09 (R2)	T10 (R4)
11:15-11:30	Coffee Break	T02 (R4)	T04 (R5)	T06 (R1)	T07 (R3)	T09 (R2)	T08 (R3)	T07 (R6)	T08 (R3)	T01 (R5)	T02 (R4)	T05 (R2)	T06 (R1)	T07 (R6)	T08 (R3)	T09 (R2)	T10 (R4)
11:30-11:45		T02 (R4)	T04 (R5)	T06 (R1)	T07 (R3)	T09 (R2)	T08 (R3)	T07 (R6)	T08 (R3)	T01 (R5)	T02 (R4)	T05 (R2)	T06 (R1)	T07 (R6)	T08 (R3)	T09 (R2)	T10 (R4)
11:50-12:20	Lunch	T02 (R4)	T04 (R5)	T06 (R1)	T07 (R3)	T09 (R2)	T08 (R3)	T07 (R6)	T08 (R3)	T01 (R5)	T02 (R4)	T05 (R2)	T06 (R1)	T07 (R6)	T08 (R3)	T09 (R2)	T10 (R4)
12:20-12:35		T02 (R4)	T04 (R5)	T06 (R1)	T07 (R3)	T09 (R2)	T08 (R3)	T07 (R6)	T08 (R3)	T01 (R5)	T02 (R4)	T05 (R2)	T06 (R1)	T07 (R6)	T08 (R3)	T09 (R2)	T10 (R4)
12:35-12:50	Lunch	T02 (R4)	T04 (R5)	T06 (R1)	T07 (R3)	T09 (R2)	T08 (R3)	T07 (R6)	T08 (R3)	T01 (R5)	T02 (R4)	T05 (R2)	T06 (R1)	T07 (R6)	T08 (R3)	T09 (R2)	T10 (R4)
12:50-13:05		T02 (R4)	T04 (R5)	T06 (R1)	T07 (R3)	T09 (R2)	T08 (R3)	T07 (R6)	T08 (R3)	T01 (R5)	T02 (R4)	T05 (R2)	T06 (R1)	T07 (R6)	T08 (R3)	T09 (R2)	T10 (R4)
13:05-13:20	Lunch	T02 (R4)	T04 (R5)	T06 (R1)	T07 (R3)	T09 (R2)	T08 (R3)	T07 (R6)	T08 (R3)	T01 (R5)	T02 (R4)	T05 (R2)	T06 (R1)	T07 (R6)	T08 (R3)	T09 (R2)	T10 (R4)
13:20-13:35		T02 (R4)	T04 (R5)	T06 (R1)	T07 (R3)	T09 (R2)	T08 (R3)	T07 (R6)	T08 (R3)	T01 (R5)	T02 (R4)	T05 (R2)	T06 (R1)	T07 (R6)	T08 (R3)	T09 (R2)	T10 (R4)
13:35-15:00	Lunch	T02 (R4)	T04 (R5)	T06 (R1)	T07 (R3)	T09 (R2)	T08 (R3)	T07 (R6)	T08 (R3)	T01 (R5)	T02 (R4)	T05 (R2)	T06 (R1)	T07 (R6)	T08 (R3)	T09 (R2)	T10 (R4)
15:00		T02 (R4)	T04 (R5)	T06 (R1)	T07 (R3)	T09 (R2)	T08 (R3)	T07 (R6)	T08 (R3)	T01 (R5)	T02 (R4)	T05 (R2)	T06 (R1)	T07 (R6)	T08 (R3)	T09 (R2)	T10 (R4)
15:15	Lunch	T02 (R4)	T04 (R5)	T06 (R1)	T07 (R3)	T09 (R2)	T08 (R3)	T07 (R6)	T08 (R3)	T01 (R5)	T02 (R4)	T05 (R2)	T06 (R1)	T07 (R6)	T08 (R3)	T09 (R2)	T10 (R4)
15:30		T02 (R4)	T04 (R5)	T06 (R1)	T07 (R3)	T09 (R2)	T08 (R3)	T07 (R6)	T08 (R3)	T01 (R5)	T02 (R4)	T05 (R2)	T06 (R1)	T07 (R6)	T08 (R3)	T09 (R2)	T10 (R4)
15:45	Lunch	T02 (R4)	T04 (R5)	T06 (R1)	T07 (R3)	T09 (R2)	T08 (R3)	T07 (R6)	T08 (R3)	T01 (R5)	T02 (R4)	T05 (R2)	T06 (R1)	T07 (R6)	T08 (R3)	T09 (R2)	T10 (R4)
16:00		T02 (R4)	T04 (R5)	T06 (R1)	T07 (R3)	T09 (R2)	T08 (R3)	T07 (R6)	T08 (R3)	T01 (R5)	T02 (R4)	T05 (R2)	T06 (R1)	T07 (R6)	T08 (R3)	T09 (R2)	T10 (R4)
16:15	Lunch	T02 (R4)	T04 (R5)	T06 (R1)	T07 (R3)	T09 (R2)	T08 (R3)	T07 (R6)	T08 (R3)	T01 (R5)	T02 (R4)	T05 (R2)	T06 (R1)	T07 (R6)	T08 (R3)	T09 (R2)	T10 (R4)
16:30-17:00		T02 (R4)	T04 (R5)	T06 (R1)	T07 (R3)	T09 (R2)	T08 (R3)	T07 (R6)	T08 (R3)	T01 (R5)	T02 (R4)	T05 (R2)	T06 (R1)	T07 (R6)	T08 (R3)	T09 (R2)	T10 (R4)
17:00-17:30	Lunch	T02 (R4)	T04 (R5)	T06 (R1)	T07 (R3)	T09 (R2)	T08 (R3)	T07 (R6)	T08 (R3)	T01 (R5)	T02 (R4)	T05 (R2)	T06 (R1)	T07 (R6)	T08 (R3)	T09 (R2)	T10 (R4)
17:30-19:00		T02 (R4)	T04 (R5)	T06 (R1)	T07 (R3)	T09 (R2)	T08 (R3)	T07 (R6)	T08 (R3)	T01 (R5)	T02 (R4)	T05 (R2)	T06 (R1)	T07 (R6)	T08 (R3)	T09 (R2)	T10 (R4)
Welcome Cocktail		Poster Session & Coffee (T02, T04, T06, T09)		Poster Session & Coffee (T01, T03, T06, T07)		Poster Session & Coffee (T05, T08, T10)		Coffee break Award Session		Coffee break		Award Session: Sustainable Energy & Fuels Energy & Environmental Science (R1)		Closing Ceremony		Lunch	
(Marriott Auditorium & Conference Center)		Social Event (Madrid Guided Tour)		Poster Session & Coffee (T05, T08, T10)		Award Session		Conference Dinner (Casa de Mónico)		Lunch		Lunch		Lunch		Lunch	

Monday 2nd Schedule



9:00 9:30	Open Ceremony					
9:30 10:30	Plenary Lecture	State of the art and future perspectives of traditional carbon materials and new carbon forms				Rosa Menendez
10:30 11:00	Coffee Break					
11:00 11:45	Oral Sessions	T02 (R4)	T04 (R5)	T06 (R1)	T07 (R3)	T09 (R2)
11:50 12:20	Keynote	T02-K (R4)	T04-K (R5)	T06-K (R1)	T07-K (R3)	T09-K (R2)
12:20 13:35	Oral Sessions	T02 (R4)	T04 (R5)	T06 (R1)	T07 (R3)	T09 (R2)
13:35 15:00	Lunch					
15:15 16:30	Oral Sessions	T02 (R4)	T03/T04 (R5)	T06 (R1)	T07 (R3)	T09 (R2)
16:30 17:00	Keynote	T02-K (R4)	T04-K (R5)	T06-K (R1)	T07-K (R3)	T09-K (R2)
17:00 19:00	Poster Session & Coffee (T02,T04,T06,T09)					

- T01: Graphene and graphite
- T02: Advanced carbon materials: nanotubes, fullerenes, carbon fibres and carbon based composites
- T03: Coal, coke and carbon black
- T04: Thermo-chemical conversion processes
- T05: Preparation, characterization, simulation and modelling of carbon
- T06: Electrochemical applications
- T07: Catalysis application
- T08: Environmental applications
- T09: Gas separation and storage
- T10: Carbons for health, medical and biological applications

Monday 2nd Room 1

T06:Electrochemical applications

Chair: Tobias Placke

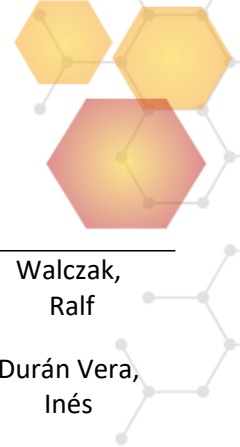
11:00	-	
11:15	Preparation and characterization of bio-based activated carbon materials for use as supercapacitor electrodes (#0090)	Breitenbach, Stefan
11:30	The „ <i>in-situ electrolyte</i> “ concept – a holistic synthesis strategy towards carbon-based supercapacitors (#0095)	Leistenschneider, Desirée
11:50	KN - Carbon electrode modification for extension of the capacitor voltage (#0801)	Frackowiak, Elzbieta
12:20	Bio-based electrode materials for energy storage technologies (electrochemical double-layer capacitors) (#0059)	Hoffmann, Viola
12:35	ZIFs-derived Ni _x Co ₃ -XO ₄ /CNTs nanocomposites with enhanced electrochemical performance for supercapacitor (#0151)	Xue, Bei
12:50	Effects of oxidation degree on activated carbon fiber felt for supercapacitor electrode (#0177)	Saldanha Marcuzzo, Jossano
13:05	High-performance supercapacitors from phosphorus, nitrogen and oxygen codoped spherical polymer-based carbons (#0186)	Gawdzik, Barbara
13:20	Porous polyaniline/reduced graphene oxide composite as a binder-free electrode material for high-performance supercapacitors (#0302)	Moyseowicz, Adam

Chair: Yuan Chen

15:15	Hierarchical cellulose-derived carbon composite electrodes for sustainable supercapacitors (#0359)	Kuzmenko, Volodymyr
15:30	Microporous electrospun lignin-based fibers as binderless supercapacitor electrodes (#0391)	Ruiz-Rosas, Ramiro
15:45	Carbon nanograpes: a new composite material for use as electrode on supercapacitors (#0470)	Arenas Esteban, Daniel
16:00	Solution spun MnO ₂ doped carbon nanotube fibers for seawable supercapacitors (#0515)	Taylor, Lauren
16:15	One-pot synthesis of superactivated carbons for high power aqueous supercapacitors (#0570)	Carriazo, Daniel
16:30	KN - High-voltage durability and degradation mechanism of seamless activated-carbon electrode for electrochemical capacitors (#0293)	Shiraishi, Soshi

Monday 2nd Room 2

T09: Gas separation and storage



Chair: Pascaline Pré

11:00	Template-free synthesis of porous “noble” carbon-nitride materials with high surface polarity for selective gas adsorption (#0086)	Walczak, Ralf
11:15	Impact of water vapor on biogas separation by means of adsorption on a biomass based carbon (#0306)	Durán Vera, Inés
11:30	Comparison between ionic liquids and encapsulated ionic liquids in CO ₂ physical absorption (#0711)	Lemus, Jesus
11:50	KN - The state of water adsorbed in carbon nanopores (#0480)	László, Krisztina
12:20	Molecular behavior in graphene nanowindows domains (#0410)	Vallejos-Burgos, Fernando
12:35	Effect of MWCNT composition on the permselectivity of PES-MWCNT mixed matrix membranes for gas separation (#0433)	Linck, Nicholas
12:50	Kerogen flexibility, a key to understand hydrocarbon expulsion from shale reservoirs ? (#0447)	Leysale, Jean-Marc
13:05	Adsorption gas terminal on the basis of new functional carbon nanoporous material for natural gas storage and transportation (#0476)	Men`Shchikov, Ilya
13:20	High-performance of gas hydrates confined in nanoporous solids for CH ₄ and CO ₂ storage (#0498)	Martinez-Escandell, Manuel

Chair: José Palomar

15:15	Carbon molecular sieves from fruit waste for biogas separation (#0741)	Amaya, Alejandro
15:30	Hydrogen storage in high-surface area carbon pellets (#0525)	Ouzzine, Mohammed
15:45	Mechanisms of hydrogen storage on palladium doped nanoporous carbons (#0794)	Lopez, Maria J
16:00	Overcoming the mass transport limitations of ionic liquids in CO ₂ chemical absorption by using encapsulated ionic liquids (#0694)	Santiago, Rubén
16:15	Improvement of CO ₂ capture by Fe doped carbonized wood (#0914)	Hata, Toshimitsu
16:30	KN - highly selective adsorptivities of porous carbons for water and oxygen isotopes (#0062)	Kaneko, Katsumi

Monday 2nd Room 3

T07: Catalysis application

Chair: M^a Carmen Román

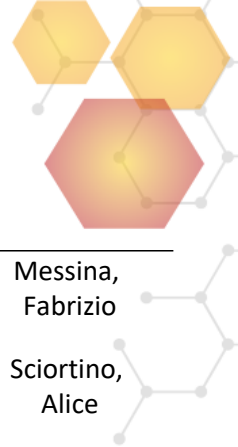
11:00	Bottom-up design of nitrogen-containing carbon catalysts for oxygen reduction reaction (#0025)	Kondo, Takahiro
11:15	Different impact of reduced graphene oxide on photocatalytic water splitting systems (#0029)	Wohlrab, Sebastian
11:30	Carbon nanospheres for in-situ improvement of heavy crude oils in oxidizing and inert atmospheres (#0040)	Betancur Márquez, Stefanía
11:50	KN - Nanoporous carbons for solar fuels production (#0190)	Matos, Juan
12:20	Functionalization of few layer graphene for designing heterogeneous catalysts based on organometallic compounds (#0052)	Ghisolfi, Alessio
12:35	Ruthenium supported on various carbon materials for sugar hydrogenation (#0125)	Santos, Jose Luis
12:50	The active site, doping effect and reaction pathway of the dehydrogenation of alkanes on the nanostructured carbon catalyst (#0276)	Li, Bo
13:05	Modified carbon xerogel catalysts for selective hydrolysis of biomass: the impact of surface chemistry and active sites (#0145)	Morawa Eblagon, Katarzyna
13:20	Preparation of 3D-printed graphene monoliths and their application as wet peroxide oxidation catalysts for wastewater treatment (#0250)	Quintanilla Gómez, Asunción

Chair: Salvador Ordoñez

15:15	Structure-performance relationships of carbon-supported iron nanoparticles in the fischer-tropsch synthesis of short olefins (#0031)	Martin, Oschatz
15:30	Improving the activity of pd/c catalysts using n-doped supports obtained by modification of commercial activated carbons (#0295)	Heras, Francisco
15:45	Carbon-mediated solar photocatalysis of industrial wastewater: ecotoxicity assessment (#0303)	Lourenço, Vânia
16:00	Synthesis of sulfonated multiwalled carbon nanotube using supercritical carbon dioxide (#0628)	Auresenia, Joseph
16:15	High-density single iron atom-dispersed N-doped porous carbon for efficient oxygen reduction under acidic medium (#0425)	Hou, Pengxiang
16:30	KN - Hydrolysis of cellulose catalyzed by oxidized carbon powder (#0597)	Takatsuki, Akira

Monday 2nd Room 4

T02: Advanced carbon materials



Chair: Isabel Suelves

11:00	The role of solvent interactions and charge separation in the fundamental photocycle of carbon nanodots (#0482)	Messina, Fabrizio
11:15	A family of fluorescent carbon dots with highly homogeneous structural properties and exceptional optical performance (#0486)	Sciortino, Alice
11:30	Improved brightness of carbon dot-based electroluminescent LEDs via blending PVK in emitting layer (#0137)	Yang, Yongzhen
11:50	KN - Versatile and scalable approaches to chemical processing of nanocarbons (#0745)	Shaffer, Milo
12:20	Kinetic study of the thermal oxidation of multiwalled carbon nanotubes and other carbon structures (#1061)	Penicaud, Alain
12:35	Turbostratic polyhedral carbon nano-onions selectively synthesized by arc discharge in water (#0076)	Alessandro, Francesca
12:50	Lignin-based carbon fibres: an approach towards new market perspectives (#0301)	Föllmer, Marie
13:05	Far-field electromagnetic characterization of prepreg film based radar absorbing composite (#0556)	Choi, Jae Ryung
13:20	Preparation and electromagnetic wave absorbing properties of 3D graphene/pine needle-like iron nano-acicular whisker composit (#0110)	Zhao, Tingkai

Chair: Amod Ogale

15:15	One-dimensional linear carbon chains: from polyyne to carbyne (#0285)	Shi, Lei
15:30	The films derived from sol-gel based SWCNT inks (#0139)	Kukobat, Radovan
15:45	Enhancement of evaporative heat transfer by super-wetting carbon nanotube sponges (#0027)	Zhang, Guang
16:00	Single-walled carbon nanotubes as fillers in nanostructured titanium dioxide electrodes (#0268)	Ansón-Casaos, Alejandro
16:15	Catalytic synthesis of multiwalled carbon nanotubes on fossilized biosilica substrate (#0182)	Nazhipkyzy, Meruyert
16:30	KN - Towards unknown - are all CNTs' synthesis pathways already known? (#0634)	Ilnicka, Anna

Monday 2nd Room 5

T04: Thermo-chemical conversion processes

Chair: Diego Cazorla-Amorós

11:00	Thermochemical conversion during stabilisation of lignin/pan blended precursor and their effect on porosity (#0146)	Richter, Benjamin
11:15		
11:30	Electrothermal vaporization–inductively coupled plasma-mass spectrometry of isostatically pressed fine grain carbon (#0023)	Jokanovic, Bojan
11:50	KN - CO₂ capture by chemical looping processes using c-fuels (#0325)	García Labiano, Francisco
12:20	Pyrolysis study of oil palm shells with the not reacted core model (#0058)	Gámez, Sebastián
12:35	Porous thermoset polymers derived by humins biorefinery side stream (#0244)	Tosi, Pierluigi
12:50	Tailoring porous carbon fibres for energy storage in the stabilisation process (#0251)	Wolz, Daniel Sebastian
13:05	Combustion kinetics of char derived from waste tire pyrolysis – a comparison of different structural models (#0411)	Martinez, Juan
13:20	Structural modification of low molecular fraction of FCC-DO by using microwave and electron beam irradiations (#0563)	Yang, Kap Seung

Chair: F. García Labiano/M^a Carmen Clemente

15:15	Effect of hydrothermal pretreatment on the porosity of pyrolytic char (#0964)	Vural, Emine Gözde
15:30	Carbon in the soil: preparation and characterization of biochar from beech wood sawdust (#0969)	Varol, Esin
15:45	Finger-like carbon-based nanostructures produced by combustion of spaghetti (#0724)	Ossler, Frederik
16:00	Reassessing coal's share in energy mix: a global perspective and sustainable waste coal strategy (#0366)	Clemente-Jul, Carmen
16:15	Inducing coke forming ability in victorian brown coal (#0927)	Chaffee, Alan
16:30	KN - Modeling cellulose conversion to kerogen: a pathway of reversible rare events (#0451)	Valdenaire, Pierre-Louis

Tuesday 3rd Schedule



9:00 10:00	Plenary Lecture	Transformative Synthesis of Carbon - Based Materials - From Graphene to Nanotubes and MXenes					Yury Gogotsi
10:00 10:30	Coffee Break						
10:30 11:45	Oral Sessions	T03 (R5)	T02 (R4)	T05 (R2)	T06 (R1)	T07 (R6)	T08 (R3)
11:50 12:20	Keynote	T01-K (R5)	T02-K (R4)	T05-K (R2)	T06-K (R1)	T07-K (R6)	T08-K (R3)
12:20 13:35	Oral Sessions	T03 (R5)	T02 (R4)	T05 (R2)	T06 (R1)	T07 (R6)	T08 (R3)
13:35 15:00	Lunch						
15:15 16:30	Oral Sessions	T03 (R5)	T02 (R4)	T05 (R2)	T06 (R1)	T07 (R6)	T08 (R3)
16:30 17:00	Keynote	T03-K (R5)	T02-K (R4)	T05-K (R2)	T06-K (R1)	T07-K (R6)	T08-K (R3)
17:00 19:00	Poster Session & Coffee (T01,T03,T06,T07)						

- T01: Graphene and graphite
- T02: Advanced carbon materials: nanotubes, fullerenes, carbon fibres and carbon based composites
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- T05: Preparation, characterization, simulation and modelling of carbon
- T06: Electrochemical applications
- T07: Catalysis application
- T08: Environmental applications
- T09: Gas separation and storage
- T10: Carbons for health, medical and biological applications

Tuesday 3rd Room 1

T06:Electrochemical applications

Chair: Sergey Mikhalovsky

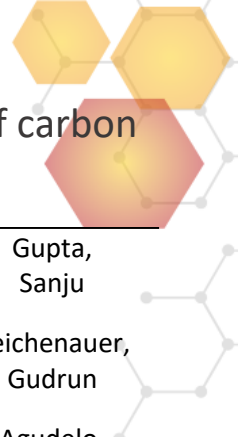
10:30	Improving carbon/carbon supercapacitors cell voltage in aqueous electrolytes (#0331)	Encarnacion, Raymundo-Piñero
10:45	CNT fibers as multifunctional electrode material for flexible supercapacitors. electrochemical properties and application. (#0717)	Senokos, Evgeny
11:00	In situ NMR study of ions transfer during the charge/discharge of carbon-based supercapacitors (#0784)	Oukali, Ghenima
11:15	Boron-doped graphene quantum structure@MoS ₂ nanohybrids as high performance anode for lithium ion battery (#0479)	Doong, Ruey-An
11:30	N-doped carbon gels based on melamine-lignin-resorcinol mixtures for supercapacitor application (#0932)	Zapata-Benabithé, Zulamita
11:50	KN - Ageing mechanisms of supercapacitor carbon electrodes determined by electrochemical on-line mass spectrometry (#0478)	Beguín, Francois
12:20	Towards better understanding of ion storage/diffusion mechanism in supercapacitors based on hierarchical porous carbons (#0034)	Yan, Runyu
12:35	High surface-area, tannin-derived, ordered mesoporous carbons as electrodes of supercapacitors (#0828)	Castro-Gutiérrez, Jimena
12:50	Nitrogen-doped biomass-derived carbon by mechanochemical synthesis for electrochemical energy storage (#0107)	Schneidermann, Christina
13:05	Carbon aerogels for electrochemical applications (#0044)	Canal Rodríguez, María
13:20	Electrical double layer capacitors – findings from fundamental research and their impact on the design of storage devices (#0084)	Reichenauer, Gudrun

Chair: Raul Berenguer

15:15	Experimental and theoretical study of ageing mechanism of activated carbon based supercapacitor and some countermeasures (#0426)	Huang, Yilun
15:30	Multi-functional carbon fibres for high-density energy storage in lithium-sulfur-batteries (#0123)	Boenke, Tom
15:45	Towards sustainable energy storage: recent developments in dual-carbon batteries (#0130)	Tobias, Placke
16:00	Commercial carbon molecular sieves as a high performance anode for sodium-ion batteries (#0679)	Zhang, Siwei
16:15	Electrochemical functionalization of carbon materials with nitrogen and phosphorus containing compounds (#0192)	Quintero Jaime, Andrés Felipe
16:30	KN - Electrochemical performance of n-doped superporous activated carbons in non-conventional electrolytes (#0087)	Mostazo López, María José

Tuesday 3rd Room 2

T05:Preparation, characterization, simulation and modelling of carbon



Chair: C.O. Ania

10:30	Interfacial charge transfer in graphene-based 'hybrids' with transition metal oxides using in-situ raman spectroscopy (#0035)	Gupta, Sanju
10:45	Determining micropore size distributions and mechanical properties of microporous carbons using adsorption-induced strains (#0082)	Reichenauer, Gudrun
11:00	Comparison of Raman spectra of particulate matter produced by renewable diesel and fossil diesel on different combustion syst (#0891)	Agudelo, John
11:15	Structural characterisation of heat-treated carbon: from molecule-like to crystalline carbon (#0116)	Schuepfer, Dominique B.
11:30	Microstructure and ablation mechanism of SiC-ZrC-Al ₂ O ₃ coating for SiC coated C/C composites under oxyacetylene torch test (#0149)	Guo, Lingjun
11:50	KN - A molecular dynamics study on the tribological properties of diamond-like carbon in hydrogen gas environment (#0071)	Wang, Yang
12:20	Room temperature synthesis of graphitic porous carbon nanostructures (#0047)	Casco, Mirian Elizabeth
12.35	Conversion of organic crystals into ordered carbonaceous frameworks with microporosity (#0057)	Nishihara, Hirotomo
12:50	Malachite green dye removal from water using date pit derived activated carbon (#0060)	Sali, Safae
13:05	3D printing of hierarchically structured high surface area activated carbons (#0093)	Steldinger, Hendryk
13:20	Novel methods to tailor transport porosity of cured phenolic resins and derived carbon materials (#0176)	Kozynchenko, Oleksandr

Chair: Angel Berenguer

15:15	Facile synthesis of novel bowl-like hollow carbon spheres by combination of hydrothermal carbonization and soft templating (#0185)	Qin, Mingli
15:30	Transformation of polyimide copolymer to nanoporous carbon along heat treatment with phosphoric acid (#0188)	Sobiesiak, Magdalena
15:45	Preparation of coal liquefaction residues-based carbon nanofiber nonwoven fabric (#0194)	Song, Yan
16:00	Rapid CO ₂ activation of carbon gels using microwave heating (#0195)	Mukai, Shin
16:15	Solvent-free soft-templating synthesis of mesoporous carbons for electrochemical capacitors (#0279)	Nishiyama, Norikazu
16:30	KN - Mechanism of the oxygen reduction reaction (ORR) on graphene-based materials: further insights from quantum chemistry (#0257)	Radovic, Ljubisa R

Tuesday 3rd Room 3

T08:Environmental applications

Chair: Juan Matos

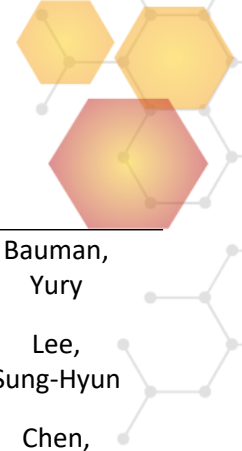
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|--------------|---|------------------------------|
| 10:30 | Fixed-bed adsorption of bisphenol a onto carbon adsorbents: adsorption/desorption cycles (#0393) | Hernández Abreu, Ana Belén |
| 10:45 | Synthetic process of C@Al ₂ O ₃ hybrids with hydrophobic and magnetic properties for environmental applications (#0266) | Maroto Valiente, Ángel |
| 11:00 | Value addition to local biomass: synthesis of activated carbon from babassu mesocarp and its environmental applications (#0946) | Cruz Viana Neto, Bartolomeu |
| 11:15 | The use of wood residues from the boreal forest for the production of porous materials for environmental applications (#0731) | Braghiroli, Flavia Lega |
| 11:30 | Truncated octahedral TiO ₂ /Fe ₂ O ₃ nanoparticles with graphene supports for water treatment applications (#0050) | Yurum, Alp |
| 11:50 | KN - from nano- to macro-scale: hybrid magnetic carbon nanocomposites as a tool for catalytic wet peroxide oxidation (#0364) | Ribeiro, Rui |
| 12:20 | Carbon nanospheres as modifying agent of shallow fields for enhanced process of carbon capture and storage-ECCS (#0594) | Rodriguez Acevedo, Elizabeth |
| 12.35 | Removal efficiency of methyl iodide by KI/TEDA impregnated activated carbons in the context of nuclear industry (#0674) | Chebbi, Mouheb |
| 12:50 | Enhanced electrochemical performance of doped reduced graphene oxide based bimetallic Ni/Fe nanohybrids for rapid dechlorinat (#0904) | Doong, Ruey-An |
| 13:05 | Biomass-derived electrodes for bioelectrochemical systems (#0924) | Marzorati, Stefania |
| 13:20 | Electroconductive carbon biofilters for efficient and sustainable treatment of urban wastewater (#0942) | Berenguer, Raul |
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Chair: Vanessa Fierro

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|--------------|---|----------------------------------|
| 15:15 | Adsorption of diclofenac from aqueous solution onto carbon xerogels. effect of textural properties and presence of bacteria (#0445) | Moral Rodriguez, Adriana Isabel |
| 15:30 | Activated carbon for gold adsorption using colombian coal as raw matter (#0488) | Martinez Mendoza, Karen |
| 15:45 | High-performance uv photodetector based on length-controlled zno nanorod (#0607) | Lee, Kang Eun |
| 16:00 | Nitrate ion adsorption on activated carbons with different textural and physicochemical characteristics (#0729) | Henriette, Moussounda Boundzanga |
| 16:15 | Production of activated carbon from asparagus officinalis L for 2,4-dichlorophenol adsorption present in aqueous solution (#0965) | Andrade Espinosa, Guillermo |
| 16:30 | KN - TiO₂-carbon hybrid photocatalysts for the elimination of pollutants in liquid phase (#0375) | Amorós-Pérez, Ana |
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Tuesday 3rd Room 4

T02:Advanced carbon materials



Chair: Shinn-Shyong Tzeng

10:30	Synthesis of carbon filaments and hierarchical composites via non-catalytic decomposition of halogenated hydrocarbons (#0226)	Bauman, Yury
10:45	Synthesis of carbon nanotube fiber using hydrocarbon with low decomposition temperature in the vapor phase (#0228)	Lee, Sung-Hyun
11:00	Ultrafast hydrothermal assembly of nanocarbon microfibers in near-critical water (#0237)	Chen, Yuan
11:15		
11:30	Polymerization of solvated C60 crystals under pressure (#0621)	Gonnokami, Hiriomichi
11:50	KN - Flow pattern analysis of the horizontal tube furnace for the CNT fiber synthesis (#0111)	Lee, Kun-Hong
12:20	Defect analysis for carbon fibers based on strength reduction in liquids (#0550)	Shioya, Masatoshi
12.35	Carbon fibers derived from fractionated-solvated lignin (#0697)	Ogale, Amod
12:50	Tuning electronic properties of carbon nanotubes via oxygen plasma – experimental and theoretical approach (#0105)	Duch, Joanna
13:05	Lignin-based carbon nanofibers made by electrospinning (#0304)	Roman, Julien
13:20	Cellulose-based carbon fibers: increasing tensile strength and carbon yield (#0376)	Unterweger, Christoph

Chair: Kun-Hong Lee

15:15	Property evaluation of carbon fiber/ABS composites with different A, B, and S compositions via long fiber thermoplastic-based (#0318)	Cho, Donghwan
15:30	A novel carbon nanotube staple yarn/carbon composite fibre (#1058)	Ibarra González, Nagore
15:45	Carbon fibers from aromatic polymer precursors: precursor design for low CO ₂ emission products (#0423)	Hatori, Hiroaki
16:00	Carbon nanocones as multi-mode probes for nearfield microscopies (#0837)	Paredes Guerrero, Germercy
16:15	An experimental and molecular simulation study of the strengthening of CNT fibers through graphene oxide interlocking (#0154)	Lyu, Weibang
16:30	KN - The study toward to the realization of sustainable CF RTP having both high mechanical properties and recyclability (#0215)	Irisawa, Toshihira

Tuesday 3rd Room 5

T03: Coal, coke and carbon black

Chair: Rodney Andrews

10:30	Neutron imaging and scattering based characterization of the interaction between hydrogenous substances and soot materials (#0730)	Ossler, Frederik
10:45	Geochemical and physicochemical characteristics of some colombian coals and their relationship with their coal methane conten (#0746)	Castro, Adriana
11:00	Trace calcium induced catalytic activation achieving pore reorganization of coal converted porous carbons for efficient CO ₂ and dye molecules storage (#0920)	Wang, Lijie
11:15	The advent of soot nanostructure and soot evolution by Raman, Far-UV to Mid-IR spectroscopies and HRTEM (#0133)	Le, Thi Kim Cuong
11:30	Real-time observation of carbon black particle in an environmental transmission electron microscope (#0291)	Sediako, Anton
11:50	KN - Analysis of bound polymer in carbon-rubber interface by using carbon-coated alumina nanoparticles as a model filler (#0702)	Hoshikawa, Yasuto
12:20	1H-NMR study on the thermoplastic phenomenon of coal with high performance coking additive. (#0305)	Kumagai, Haruo
12.35	How the structure of the carbon support influence on structure and durability of deposited platinum nanoparticles? (#0743)	Pawlyta, Mirosława
12:50	The relationship between the wettability of coal tar pitch and the thickness of the binder layer in green electrode material (#0573)	Wojtaszek, Małgorzata
13:05	CRI predictive studies of coke by DRIFTS analysis of colombian coals (#0516)	Agámez-Pertuz, Yazmin
13:20	Differential Raman backscattering cross sections of black carbon nanoparticles (#0132)	Le, Thi Kim Cuong

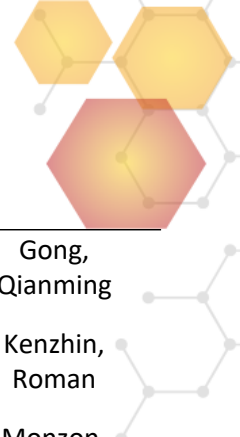
T01: Graphene and graphite

Chair: Nidia Gallego

15:15	New process for efficient CO ₂ capture by innovative adsorbents based on modified graphene aerogels and MOF materials (#0033)	Benedito Borrás, Adolfo
15:30	CCVD synthesis of graphene related materials using stainless steel foams as structured catalysts (#0055)	Monzon, Antonio
15:45	Thermal exfoliation of dropcast and wrinkled graphite oxide films – an opportunity for large-surface-area graphene materials? (#0735)	Kulaots, Indrek
16:00	Electrochemically grown graphene microtubes for fiber-shaped supercapacitors (#1027)	Yang, Junjie
16:15	Filament printing of graphene-based inks into self-supported 3D architectures (#0934)	Osendi, M. Isabel
16:30	KN - Rosin-mediated ultraclean transfer of graphene and related two-dimensional materials (#0431)	Du, Jinhong

Tuesday 3rd Room 6

T07: Catalysis application



Chair: Francisco Heras/Jose Luis Pinilla

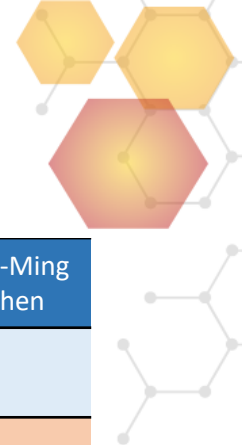
10:30	Scalable fabrication of porous CNTs based microspheres and their application in extraction of chinese traditional medicine (#0440)	Gong, Qianming
10:45	Formation of the metastable solid-phase intermediates during interaction of halogenated compounds with bulk Ni-Cr alloy (#0560)	Kenzhin, Roman
11:00	Synthesis of nanocarbonaceous materials by decomposition of methane using catalysts of Mn-Me(Ni,Co)/CB. (#0103)	Monzon, Antonio
11:15	One-pot selective cellulose conversion into sorbitol using a tandem carbon catalyst (#0582)	Azar, Fatima-Zahra
11:30	Alkane dehydrogenation on nanocarbon: from reaction mechanism to catalyst design (#0923)	Qi, Wei
11:50	KN - Combination of transition metal with nanocarbon materials: promising catalysts for liquid phase organic reactions (#0129)	Zhao, Qingshan
12:20	Catalytic activity of carbon catalysts with corrugated graphitic layers for oxygen reduction reaction in acidic conditions (#0602)	Ozaki, Jun-Ichi
12:35	Molecular understanding of the active sites on BN-doped carbon catalysts for oxygen reduction reaction (#0603)	Ishii, Takafumi
12:50	Synthesis of Fe-N-doped carbon nanowalls for oxygen reduction reaction (#0619)	Tachibana, Masaru
13:05	Pd catalysts supported on activated carbons prepared from lignin for the valorization of chloroform by hydrodechlorination (#0654)	Fernández Ruiz, Carlos
13:20	Doped carbon nanotubes prepared by a solvent-free methodology for CWAO (#0659)	P. Rocha, Raquel

Chair: Ivan Kozhevnikov

15:15	Kinetic study of methanol dehydration over ZrO ₂ supported-activated carbons (#0739)	Palomo Jimenez, Jose
15:30	Novel approaches for hydrochars sulfonation (#0799)	Duarte, Tiago
15:45	Oligomerization kinetics for the conversion of pyrene monomer to an oligomeric pitch in the presence of aluminum trichloride (#0335)	Thies, Mark
16:00	Preparation and characterizations of cu/carbon spheres material. application for CO ₂ photo-electrochemical reduction (#0893)	Amel, Boudjemaa
16:15		
16:30	KN - Carbon materials as catalyst supports and co-catalysts for biomass upgrading processes (#0290)	Ordonez, Salvador



Wednesday 4th Schedule



9:00	Plenary	Graphene Materials: Fabrication and Use in Electrochemical Energy Storage					Hui-Ming Chen
10:00	Lecture						
10:00	Coffee Break						
10:30	Oral	T01	T02	T05	T06	T08	
11:45	Sessions	(R5)	(R4)	(R2)	(R6)	(R3)	
11:50	Keynote	T01-K	T02-K	T05-K	T06-K	T08-K	
12:20		(R5)	(R4)	(R2)	(R1 & R6)	(R3)	
12:20	Oral	T01	T02	T05	T06	T08	
13:35	Sessions	(R5)	(R4)	(R2)	(R1 & R6)	(R3)	
13:35	Lunch						
15:00							
15:15	Oral	T01	T02	T05	T06	T08	
16:30	Sessions	(R5)	(R4)	(R2)	(R1 & R6)	(R3)	
16:30	Keynote	T01-K	T02-K	T05-K	T06-K	T08-K	
17:00		(R5)	(R4)	(R2)	(R1 & R6)	(R3)	
17:00	Poster Sesion & Coffee (T05,T08,T10)						
19:00							

- T01: Graphene and graphite
- T02: Advanced carbon materials: nanotubes, fullerenes, carbon fibres and carbon based composites
- T03: Coal, coke and carbon black
- T04: Thermo-chemical conversion processes
- T05: Preparation, characterization, simulation and modelling of carbon
- T06: Electrochemical applications
- T07: Catalysis application
- T08: Environmental applications
- T09: Gas separation and storage
- T10: Carbons for health, medical and biological applications

Wednesday 4th Room 1

T06:Electrochemical applications

Chair: Masayuki Kawaguchi

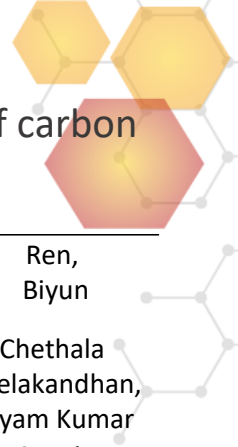
11:50	KN - Charge-discharge properties of SnO₂-embedded nanoporous carbons in all-solid-state lithium ion battery system (#0365)	Notohara, Hiroo
12:20	Nano-graphite and rate performance of lithium intercalation (#0348)	Ogumi, Zempachi
12:35	Charge/discharge properties of sulfur molecules confined in 1D carbon nanospaces (#0201)	Urita, Koki
12:50	High capacity carbon nanotube fiber for binder-free Li-ion battery anodes beyond-graphite (#0757)	Cintora Juarez, Daniel
13:05	Ion conducting hybrid electrolyte using functionalized silica particle for Li-ion battery (#0588)	Jung, Byung Mun
13:20	Eco-friendly and facile synthesis of carbon/SiO ₂ hybrid materials for Li-ion batteries applications (#0719)	Cristina, Nita

Chair: Elzbieta Frackowiak

15:15	Fe-catalyzed graphitic carbon materials from biomass resources as anodes for lithium ion batteries (#0313)	Gomez-Martin, Aurora
15:30		
15:45	Charge-discharge characteristics of graphene like graphite partially reduced by lithium metal (#0212)	Matsuo, Yoshiaki
16:00	Anticorrosive effects of carbon/semiconductor coatings on metals (#0395)	Gomis Berenguer, Alicia
16:15	In-situ measurement of the in-plane structure change of graphite anode of Li ion battery during the charge/discharge process (#0073)	Fujimoto, Hiroyuki
16:30	KN - Electrochemical behaviors of lithium intercalation/de-intercalation into/out-of boron/carbon materials as anodes of LIBs (#0078)	Kawaguchi, Masayuki

Wednesday 4th Room 2

T05:Preparation, characterization, simulation and modelling of carbon



Chair: Katsumi Kaneko

10:30	Effect of oxygen and hydrogen on microstructure of pyrolytic carbon deposited from thermal decomposition of methane and ethan (#0165)	Ren, Biyun
10:45	Structure and dynamics of nanocrystalline graphene at high temperatures revealed by in situ transmission electron microscopy (#0171)	Chethala Neelakandhan, Shyam Kumar
11:00	Pore structure and surface chemical state of mesoporous carbons derived from mgo template process (#0209)	Anzai, Mizuho
11:15	Selective control of surface hydrophilicity depending on pore size of porous carbon materials (#0231)	Yu, Yao
11:30	Direct speciation separation of oxygen functional groups by non-linear thermal analysis (#0328)	Ding, Yuxiao
11:50	KN - EELS measurement of graphitized ultrathin carbon films (#0345)	Yoshizawa, Noriko
12:20	Thermodynamics and kinetics of graphene and H ₂ O/CO ₂ reactions: insights of multiple-site edge effects. (#0456)	Oyarzun, Andrea M.
12:35	Comparative microstructural analysis of non-graphitic carbons based on wide-angle x-ray (waxs) and neutron (wans) scattering (#0404)	Pfaff, Torben
12:50	Structural change of graphite ultrathin films from spin-coating polymers (#0424)	Soneda, Yasushi
13:05	Investigating the effect of long range electrostatic interactions of curved carbon materials in ion-induced nucleation (#0442)	Bowal, Kimberly
13:20	New paradigms for analyzing X-ray diffraction spectra of graphene-based carbons (#0446)	Marc, Monthieux

Chair: Jacez Jagiello

15:15	Nickel-carbon nanoparticles: size dependent phase diagrams and interaction with graphenic layers (#0466)	Yann, Magnin
15:30	Analysis of stacking order of graphenes in turbostratic graphite by moiré interferometry of tem image (#0526)	Fujimoto, Hiroyuki
15:45	Novel technique for microstructure quantification of carbon composites by steam gasification (#0554)	Hisa, Masaaki
16:00	Local nano-functionalisation of graphene via catalytic scanning probe nanolithography evaluated by raman spectroscopy (#0561)	Gratzer, Katharina
16:15	Mechanical properties of carbide-derived carbons (#0565)	Marks, Nigel
16:30	KN - Carbon nanomaterials as structural directors for the preparation of interconnected porous carbon networks (#0387)	Ania, Conchi

Wednesday 4th Room 3

T08:Environmental applications

Chair: René Rangel

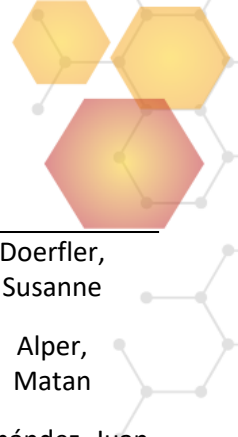
10:30	Effect of oxygen impurity on VOC desorption from activated carbon (#0415)	Hashisho, Zaher
10:45	Apple tree branches activated carbons for the removal of atenolol (#0780)	Carvalho, Ana Paula
11:00	Highly dispersed ruthenium nanoparticles anchored on carbon nanospheres as high efficient catalyst for the removal of BPA (#0326)	Serra Pérez, Estrella
11:15	Activated carbon-based P-Fe nanocomposites for the adsorption and photodegradation of methylene blue under solar irradiation (#0150)	Matos, Juan
11:30	Photocatalytic degradation of perfluorocarboxylic acids by TiO ₂ -RGO composite (#0403)	Diban, Nazely
11:50	KN - Coal fly ash derived nanocomposite for mercury removal from wastewater (#0509)	Mikhailovsky, Sergey
12:20	Synthesis of multiwalled carbon nanotube-supported CuCo ₂ S ₄ for enhanced fenton-like catalysis (#0723)	Tao, Yousheng
12.35	Improved performance of amorphous carbon membranes by restructuring during high pressure water desalination (#0355)	Ortiz-Medina, Josue
12:50	Improvement of biodegradability using biochar in dry biotoilet (#0864)	Yoshizawa, Shuji
13:05	Effective adsorptive removal of gallium on synthesized mesoporous carbons (#0080)	Bernabé Vírveda, Ignacio
13:20	Aqueous mercury removal from actual SFGD wastewater of a coal-fired power plant using sulfurized activated carbon (#0458)	Chen, Yun-Hsin

Chair: M^a Teresa Izquierdo

15:15	Measuring heat capacity of activated carbons for CO ₂ capture (#0308)	Querejeta Montes, Nausika
15:30	Catalytic activity of carbon materials with different structures and by-produced carbons for hydrogen production (#0522)	Suda, Yoshiyuki
15:45	Synthesis and characterization of carbon-based ion imprinted materials for selective recognition and recovery of lithium ion (#0135)	Liu, Xuguang
16:00		
16:15	The electrochemical deconsolidation mechanism of graphite matrix in HTR spherical fuel elements (#0112)	Chen, Xiaotong
16:30	KN - Development of novel pan-based activated carbon fibers (#0114)	Yoshikawa, Masaaki

Wednesday 4th Room 4

T02:Advanced carbon materials



Chair: Javier Narciso

10:30	Direct resistive heating of carbon fibers: use for carbonization/graphitization of carbon fiber textiles or CFRP recycling (#0157)	Doerfler, Susanne
10:45	Ultra-long carbon nanotube non-woven mats as a light weight electromagnetic interference shielding composite structure (#0986)	Alper, Matan
11:00	Advanced characterization of macroscopic ensembles of CNTs (#0662)	Fernández, Juan Carlos
11:15	Modeling and investigation of cross-linking effect on mechanical properties of CNT yarns (#0346)	Cho, Young Shik
11:30	Recent advances in synthesis and characterization of continuously spun carbon nanotube fiber from the gas phase. (#0685)	Rodiles, Xaquín
11:50	KN - Advanced carbon materials by electrospinning of lignin (#1057)	Rodríguez-Mirasol, José
12:20	Spectroscopic signatures of aqueous dispersions of single layer graphene and single-walled carbon nanotubes (#0860)	Eric, Anglaret
12:35	Synthesis of organosilane – MWCNT catalyst using supercritical carbon dioxide for biodiesel production (#0632)	Auresenia, Joseph
12:50	Bacteria-assisted synthesis of carbon -inorganic nanoparticles composites (#0284)	Kotarba, Andrzej
13:05	Flexible carbon aerogels by sphere templating (#0688)	Elsaesser, Michael
13:20	Active carbon monoliths from brown coal (#0275)	Chaffee, Alan

Chair: Milo Shaffer

15:15	One-pot, fully scalable and low cost method for carbonaceous nanostructures functionalization (#0661)	Żelechowska, Kamila
15:30	Electron conducting carbon-based cement electrodes: expanding concrete structural elements functionalities (#0873)	Chanut, Nicolas
15:45	Effects of preheating on electronic transport of detonation nanodiamonds (#0531)	Pina Salazar, Elda Zoraida
16:00	Diminishing the back diffusion of Fe catalyst particles for synthesizing long CNT forests by using Fe pre-implanted wafers (#0552)	Lee, Cheol-Hun
16:15	Ultralight, flexible, and free-standing carbon microtube membrane synthesized by Si ₃ N ₄ nanowire-templated chemical vapor depo (#0473)	Yin, Xuemin
16:30	KN - Optimization of processing parameters in solution spun CNT fibers (#0514)	Dewey, Oliver

Wednesday 4th Room 5

T01: Graphene and graphite

Chair: Manuel J Pérez-Mendoza

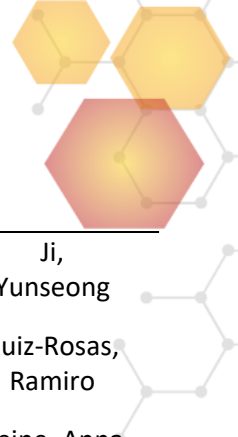
10:30	Polyacrylonitrile fibers containing thin-layer graphene particles as precursors for carbon fibers (#0141)	Mirko, Richter
10:45	Engineered graphene quantum dots for catalysis (#0283)	Chen, Peng
11:00	Preparation and characterisation of PAN-based carbon nanofibres with graphene nanoplatelets by using pressurised gyration (#1034)	Wu, Xiaowen
11:15	Evaluation of durable fuel cell electrodes using the platinum- loaded graphene. (#0519)	Toyoda, Masahiro
11:30	Graphene oxide membranes for food filtration (#0558)	Morelos-Gomez, Aaron
11:50	KN - Doped graphene: synthesis and superior molecular sensing (#0937)	Terrones, Mauricio
12:20	Effect of layered structure of graphene oxide membrane on permeation efficiency of water (#0606)	Zheng, Xiaohui
12.35	Raman statistical analysis of CVD monolayer graphene. Comparison with literature (#0501)	Cedric, Pardanaud
12:50		
13:05	Electrochemical preparation of hydroxide-ion containing graphite intercalation compounds (#0474)	Miyazaki, Kohei
13:20	Hematin supported on grafenic materials: a biomimetic catalyts for the polyaniline synthesis (#0874)	Romero, Jorge

Chair: Mauricio Terrones

15:15	In situ reinforcement of metals with graphene: high-temperature interactions between SiC and metals (Ir, Rh, Pt, Pd) (#0502)	Narciso, Javier
15:30	Chemical vapor deposition growth of nanocrystalline graphene films and its mechanical properties (#0357)	Gao, Libo
15:45	Effective reduction of graphene oxide by a hybrid microwave heating method (#0539)	Jin, Minglin
16:00	Understanding the graphene foam elaboration prepared from a solvothermal-based process: role of the sodium compounds (#0374)	Fontana, Sebastien
16:15	Charge-transfer processes between graphene and simple molecules or carbon nanodots (#0412)	Messina, Fabrizio
16:30	KN - Just add water and table salt: new perspectives on the electrochenmical exfoliation of high quality graphene (#0089)	Munuera Fernández, Jose María

Wednesday 4th Room 6

T06: Electrochemical applications



Chair: Soshi Shiraishi

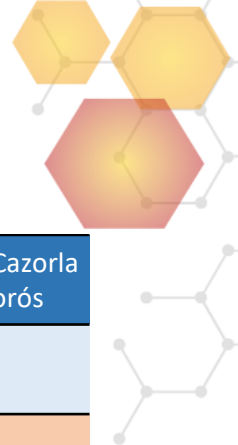
10:30	Highly durable electrocatalysts with thermally treated carbon nanofiber for PEMFCS (#0648)	Ji, Yunseong
10:45	One-pot synthesis of lignin-based electrospun oxygen reduction reaction electrocatalysts (#0392)	Ruiz-Rosas, Ramiro
11:00	Carbon nanotube containing polyacrylonitrile materials for the efficient oxygen evolution reaction – a conductivity study (#0104)	Beine, Anna Katharina
11:15	Graphene aerogels modified with Co and Ti oxides as electrochemical catalysts for oxygen evolution and reduction reactions (#0704)	Martinez Huerta, Maria Victoria
11:30	Effect of nitrogen on the performance of sensor based on N-doped reduced graphene oxides for the determination of epinephrine (#0363)	Wiench, Piotr
11:50	KN - Emphasizing the role of carbon pores in electrocatalysis (#0197)	Bandosz, Teresa J
12:20	Graphene/nanorod composites for enzymatic and non-enzymatic electrochemical biosensing: application to glucose detection (#0950)	Simchi, Abdolreza
12:35	Glucose-derived carbons/carbon nanotube hybrids for the oxygen reduction reaction (#0249)	Rey-Raap, Natalia
12:50	Understanding of ORR by examining carbon-oxygen gasification reaction and active sites on metal and heteroatoms free carbons (#0205)	Gabe, Atsushi
13:05	Doped graphene based electrocatalysts for hydrogen evolution reaction (#0970)	Pastor, Elena
13:20	Carbohydrate coatings for biofouling mitigation: diazonium based saccharide coatings for improved electrochemical sensors (#0953)	Myles, Adam

Chair: Ana Arenillas

15:15	Oxygen reduction reaction in nitrogen-doped multiwall carbon nanotubes (#0811)	Sanchez Salas, Roque
15:30	Preparation and characterization of carbon alloy catalysts derived from chicken egg for hydrogen evolution reaction (#0585)	Takigami, Machiko
15:45	Excellent ORR catalysts based on N-doped carbon materials prepared through heat treatment of PANI at high temperatures (#0248)	Quílez-Bermejo, Javier
16:00	Cu ₂ O on 1-octyl-3-methylimidazolium chloride assisted graphite sheets as efficient electrocatalyst for CO ₂ reduction (#0015)	Ning, Hui
16:15	Electrochemically exfoliated graphene: production, hybridization and electrochemical application (#0032)	Wang, Junzhong
16:30	KN - Advances on noble metal-free electrocatalysts based on carbon for energy conversion devices (#0884)	Sebastian Del Rio, David



Thursday 5th Schedule



9:00 10:00	Plenary Lecture	Surface (electro)chemistry of carbon materials. About the role of oxygen and nitrogen heteroatoms				Diego Cazorla Amorós
10:00 10:30	Coffee Break					
10:30 11:45	Oral Sessions	T01 (R5)	T02 (R4)	T05 (R2)	T06 (R1)	T8 (R3)
11:50 12:20	Keynote	T01-K (R5)	T02-K (R4)	T05-K (R2)	T06-K (R1)	T8-K (R3)
12:20 13:35	Oral Sessions	T01 (R5)	T02 (R4)	T05 (R2)	T06 (R1)	T10 (R3)
13:35 15:00	Lunch					
15:15 16:30	Oral Sessions	T01 (R5)	T02 (R4)	T05 (R2)	T06 (R1)	T10 (R3)
16:30 17:00	Keynote	T01-K (R5)	T02-K (R4)	T05-K (R2)	T06-K (R1)	T10-K (R3)
17:00 17:30	Coffee Break					
17:30 19:00	Award Session					

- T01: Graphene and graphite
- T02: Advanced carbon materials: nanotubes, fullerenes, carbon fibres and carbon based composites
- T03: Coal, coke and carbon black
- T04: Thermo-chemical conversion processes
- T05: Preparation, characterization, simulation and modelling of carbon
- T06: Electrochemical applications
- T07: Catalysis application
- T08: Environmental applications
- T09: Gas separation and storage
- T10: Carbons for health, medical and biological applications

Thursday 5th Room 1

T06:Electrochemical applications

Chair: Agustin Pérez Cadenas

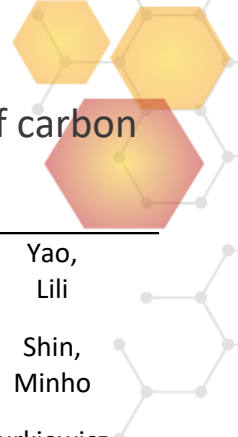
10:30	Hard carbon materials for sodium ion batteries (NIBS) (#0203)	Adrian, Beda
10:45	Alkali metal halide aqueous electrolyte batteries using single-walled carbon nanotubes (#0206)	Kawasaki, Shinji
11:00	Pore-size sensitive Co-ion association of ionic liquids in carbon nanopores (#0210)	Futamura, Ryusuke
11:15		
11:30	Characterization of carbon properties influencing on battery performance (#0079)	Takagi, Shigeharu
11:50	KN - Elucidation of relationships between carbon structure and anion intercalation in dual-ion batteries (#0113)	Andreas, Heckmann
12:20	Study on separating graphite from HTGR elements by electrochemical method (#0296)	Wen, Mingfen
12.35	Chronoamperometric response of nanoporous carbons under UV-Vis irradiation (#0323)	Gomis Berenguer, Alicia
12:50	In situ X-ray diffraction studies within an operating electrochemical cell: from structural controlled modifications to ion's (#0658)	Santos, Cleis
13:05	Controlled synthesis of cotton fabric/NiCo ₂ O ₄ material for lithium-ion battery (#0542)	Jin, Minglin
13:20	Highly dispersed CO ₃ S ₄ within graphitic carbon polyhedrons@carbon nanotube sponge for ultralong life lithium-sulfur batteries (#0436)	Zhang, Hui

Chair: Teresa J. Bandoz

15:15	Hard carbon derived from blending polymer interpenetrating networks for sodium-ion batteries anode (#0453)	Zhang, Wenfeng
15:30	Outstanding electrochemical performances of highly N- and O-doped carbons derived from pine tannin (#0827)	Sanchez, Angela
15:45	Optimum porous carbon structure for high capacity EDLC enhanced by specific ion-desolvation (#0437)	Urita, Chiharu
16:00	Faradaic behavior of quinone-grafted carbons in protic ionic liquid electrolyte (#0510)	Górska, Barbara
16:15	Electrochemical performance in aqueous and organic medium of activated carbons from african palm kernel shells (#0972)	Zapata-Benabithé, Zulamita
16:30	KN - Carbide-derived carbon beads with tunable nanopores from continuously produced polysilsesquioxanes for energy storage devices (#0138)	Krüner, Benjamin

Thursday 5th Room 2

T05:Preparation, characterization, simulation and modelling of carbon



Chair: Covadonga Pevida

10:30	Effect of surface modification for sized carbon fibers on interlaminar shear strength of polyamide composites (#0568)	Yao, Lili
10:45	Study on change of surface nature of multi-walled carbon nanotubes by acid treatment for improving dispersibility (#0579)	Shin, Minh
11:00	Characterization of the atomic structure of glassy carbon foams (#0647)	Jurkiewicz, Karolina
11:15	Recovering pores size density distribution of activated carbon by regularizing and HRTEM images analysis procedures (#0733)	Montresor Passe-Coutrin, Nady
11:30	Water sorption phenomenon on solid particles emitted during a fire: determination of the influencing physico-chemical paramet (#0744)	Laura, Lintis
11:50	KN - Sustainable carbon materials derived from kraft black liquor (#0663)	Amaral-Labat, Gisele
12:20	Binderless ordered mesoporous carbon monoliths from low value coal tar-derived products (#0287)	Castro-Muñiz, Alberto
12:35	Preparing carbon fiber from needle coke (#0349)	Lyu, Yonggen
12:50	Photoassisted preparation of metal-containing nanoporous polymeric carbons (#0578)	C. Fernández De Córdoba, María
13:05	Carbon microtubes derived from rolled-up chitosan films: the design and the use as joule-heated microreactors (#0581)	Luchnikov, Valeriy
13:20	Design of nanostructured carbon materials via laser assisted synthesis techniques (#0705)	Camélia, Ghimbeu

Chair: Peter Lodewyckx

15:15	Banded iron formation for efficient nitrogen-doped carbon nanotubes production. (#0758)	Jiménez Ramírez, Luis Ernesto
15:30	Surfactant-water-assisted mechanochemical mesostructuration of tannins to synthesise omcs (#0829)	Fierro, Vanessa
15:45	3D carbon microstructures by carbonization of femtosecond laser polymerized photoresists (#0845)	Batisse, Nicolas
16:00	Tunable nanoparticles in aluminum carbide-derived carbon for enhanced acid gas adsorption (#0850)	Moran, Colton
16:15	Rapid growth of metal oxide-carbon hybrid nanowires for supercapacitors (#0881)	Liu, Yang
16:30	KN - Consistency of carbon PSD characterization methods based on 2D-NLDFT models applied to adsorption data of Ar, N₂, and O₂ (#0846)	Jagiello, Jacek

Thursday 5th Room 3

T08:Environmental applications

Chair: Andrzej Kotarba

10:30		
10:45	Green synthesis of ultralight porous graphene cocoon for enhanced microwave absorbing performance (#0435)	Zhao, Yun
11:00	Reactivity of free and trapped charge carriers of photoexcited nanoporous carbons (#0172)	Ania, Conchi
11:15	The influence of GIC stage number and exfoliation temperature on the gas permeability of graphite foil (#0675)	Malakho, Artem
11:30	Effect of occurrence mode of as on volatility during pyrolysis process (#0714)	Chu, Mo
11:50	KN - Influence of the degree of oxidation of granular activated carbon anodes in arsenate electroadsorption (#0728)	Chazaro-Ruiz, Luis Felipe

T10:Carbons for health, medical and biological applications

Chair: Andrzej Kotarba

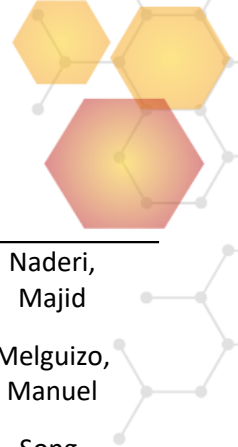
12:20	Graphene-poly(ϵ -caprolactone) mixed-matrix films modulate the differentiation of neural progenitor cells (#0288)	Diban, Nazely
12:35	A super-long carbon nanotube array for size-based virus capture and detection (#0321)	Terrones, Mauricio
12:50	Biomimetic strontium-substituted hydroxyapatite deposited on carbon fiber cloth for bone regeneration (#0380)	Olivier, Florian
13:05	Effect of graphene oxide nanosheets on the physicochemical and biological performance of electrospun polymeric nanofibers (#0955)	Tamjid, Elnaz
13:20	Factors influencing the antibacterial activity of graphene oxide beyond materials physicochemistry (#0666)	Karahan, H. Enis

Chair: Krisztina László

15:15	Carbon nanodots for biological applications (#0264)	Rybarczyk, Maria
15:30	Rice husk-derived C/C composite honeycomb monoliths for elimination of lipopolysaccharide endotoxin (#0810)	Mikhalovsky, Sergey
15:45	Activated carbon/ferrite nanoparticles composite as a magnetic drug delivery system (#0905)	Rios Hurtado, Jorge Carlos
16:00	Physicomechanical properties and in vitro biological performance of keratin/bacterial cellulose nanofibrous composites for wound dressing (#0892)	Tamjid, Elnaz
16:15	Graphene for bioapplications: preparation, cytotoxicity and integration in 3d scaffolds (#0175)	Vázquez, Ester
16:30	KN - Rapid adsorption of pro-inflammatory cytokines by graphene nanoplatelets and their composites (#0511)	Mikhalovsky, Sergey

Thursday 5th Room 4

T02:Advanced carbon materials



Chair: Robert Boehm

10:30	Determination of surface energy heterogeneity of carbon-based nanomaterials by inverse gas chromatography (#0706)	Naderi, Majid
10:45	Coating conventional glass and polycarbonate with transparent graphene-type layers (#0808)	Melguizo, Manuel
11:00	Effect of twisting on the mechanical properties of carbon nanotube fibers (#1048)	Song, Hyeonjun
11:15	Two sprayer CVD synthesis of nitrogen-doped carbon nanotube sponge (#0800)	Sanchez Salas, Roque
11:30	Single walled carbon nanotube field effect transistor as memory device (#0947)	Bargaoui, Yasmine
11:50	KN - Mechanisms of CNTs growth. understanding chirality, shape, pentagon/heptagon formation catalysis (#0701)	Lobo, Luis
12:20	Some properties of wood plastic nanocomposites reinforced with multi walled carbon nanotubes (#0765)	Ozkan, Osman Emre
12:35	Porous carbon templates from thermoset-based wood polymer composites as precursor for silicon carbide ceramics (#0381)	Unterweger, Christoph
12:50	Mechanical behavior of 3D carbon/carbon composites : the role of internal interfaces (#0056)	Gerard L, Vignoles
13:05	New composite materials based on polyethylene and multi-walled carbon nanotubes modified by Co nanoparticles (#0842)	Kazakova, Mariya
13:20	Synthesis of hierarchically structured carbon-carbon and carbon-mineral nanocomposites for various applications (#0538)	Vedyagin, Aleksey

Chair: Alan Chaffee

15:15	Computational study of a menshutkin chemical reaction inside doped carbon nanotubes (#0958)	Magalhaes, Alexandre
15:30	Novel carbon foams from cured phenolic resins prepared by reprecipitation and emulsification of resin precursor (#0921)	Diaz Aunon, Jose Antonio
15:45	Anionic functionalization of nanocarbons: a powerful and versatile tool (#0068)	Sheet, Debabrata
16:00	Preparation of isotropic pitch-based carbon fiber from pyrolytic oils of biomass and polystyrene with ethylene bottom oil (#0777)	Özsin, Gamzenur
16:15	Fucntionalization of carbon nanostructures for the production of h ₂ O ₂ and supercapacitors (#0930)	Iglesias, Daniel
16:30	KN - Material and processing variables affecting the properties of carbon bonded carbon fiber insulation (#0409)	Gallego, Nidia

Thursday 5th Room 5

T01: Graphene and graphite

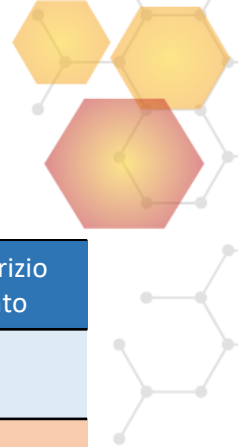
Chair: Wolfgang Maser

10:30	High sulfur loading graphene composites as cathodes for Li-S batteries (#0589)	Gómez Urbano, Juan Luis
10:45	in-situ SAXS study of exfoliation and reduction processes of GO powder and aqueous suspension systems during heating (#0128)	Hernandez Belmares, Perla J.
11:00	Thermal contact resistance of various carbon nanomaterial-based epoxy composites developed for thermal interface applications (#0198)	Ali Raza, Mohsin
11:15	Electrochemical overoxidation of graphite in mixture composed of sulfuric and nitric acid (#0513)	Gurzęda, Bartosz
11:30		
11:50	KN - Graphitization of activated carbon obtained from local biomass (babassu) and their electrochemical properties (#0919)	Cruz Viana Neto, Bartolomeu
12:20	Fluorination of nuclear graphite IG-110 in molten flibe salt at 700°C (#0819)	Scarlat, Raluca
12.35	Interactions between graphite fluorides and femtosecond laser : from controlled reduction to efficient exfoliation (#0841)	Herraiz, Michael
12:50	High-temperature treatment of char obtained from Kraft lignin by pyrolysis (#0889)	Eser, Semih
13:05	Temperature dependences of coefficient of thermal expansion with different type of artificial graphite (#0083)	Iwashita, Norio
13:20	Graphite as cointercalation electrode for sodium-ion batteries: electrode dynamics and the missing solid electrolyte interphase (#0989)	Goktas, Mustafa

Chair: Indrek Kulaots

15:15	Charge-transfer complexes of 2D sheets of graphene oxide and nanoparticles of poly(3-hexyl thiophene) (#0637)	Maser, Wolfgang
15:30	The fabrication of controlled thickness graphene oxide films by means of dip-assisted layer by layer assembly (#0649)	Kandjou, Vepika
15:45	Study of ion transmission in electrolyte of graphene quantum dots under ultraviolet light (#0673)	Wang, Xiaomin
16:00	Laser reduction of oxide graphene under ambient condition (#0756)	Evlashin, Stanislav
16:15	Evolution of porous structure and thermal properties of expandable and expanded graphite resulted by graphite oxidation (#0599)	Shornikova, Olga
16:30	KN - Nanographenes by solvent-free syntheses - the mechanochemical Scholl reaction (#0315)	Grätz, Sven

Friday 6th Schedule



9:00 10:00	Plenary Lecture	Synthesis, Properties and Applications of Functionalized Carbon Nanoforms				Maurizio Prato
10:00 10:30	Coffee Break					
10:30 11:45	Oral Sessions	T01 (R5)	T05 (R2)	T8 (R3)	T10 (R4)	
11:50 12:20	Keynote	T01-K (R5)	T05-K (R2)	T06-K (R1)	T8-K (R3)	T10-K (R4)
12:20 13:05	Oral Sessions	T01 (R5)	T05 (R2)	T06 (R1)	T8 (R3)	T10 (R4)
13:05 13:35	Award Session: Sustainable Energy & Fuels and Energy & Environmental Science					
13:35 14:00	Closing Ceremony					
14:00 15:00	Lunch					

- T01: Graphene and graphite
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Friday 6th Room 1

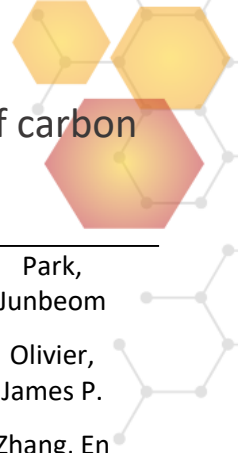
T06:Electrochemical applications

Chair: David Sebastian

11:50	KN - Petroleum coke-based carbon nanomaterials for electrocatalysis (#0140)	Wu, Mingbo
12:20	Emerging carbon architectures for safer energy storage devices (#0870)	Pol, Vilas
12:35	The effect of oxidation treatment on the adsorption of ammonia on carbon electrodes for electrochemical capacitors (#0732)	Slesinski, Adam
12:50	Starene®: starch/graphite mesoporous carbon monolith EDLC electrodes (#0856)	Shuttleworth, Peter

Friday 6th Room 2

T05:Preparation, characterization, simulation and modelling of carbon



Chair: Gisele Aparecida Amaral Labat

10:30	Theoretical model for structure determination of hierarchically structured carbon nanotube yarn (#0168)	Park, Junbeom
10:45	Modelling physical adsorption on finite objects using 3 dimensional non-local density functional theory 1: initial study (#0230)	Olivier, James P.
11:00	Nanocasting in ball mills - combining ultra-hydrophilicity and ordered mesoporosity in carbon materials (#0053)	Zhang, En
11:15	Atomistic simulations of glassy carbon under high pressures (#0358)	De Tomas, Carla
11:30	Numerical simulation of fluid dynamics in porous carbon nanomaterials by electrowetting (#0500)	Ma, Rong
11:50	KN - Numerical evaluation of the mixed-mode interfacial fracture of C/C composites by using a zero-thickness cohesive approach (#0163)	Qi, Lehua
12:20	Microscopic mechanism of water adsorption in carbons (#0270)	Do, Duong
12.35	Ablation behavior of C/C-ZrC-SiC composites under oxyacetyene torch at two heat fluxes (#0072)	Li, Kezhi
12:50	Valorization of wasted coffee powder from coffee-machine as activated Maroto Valiente, carbons by salt shield process (#0265)	Ángel

Friday 6th Room 3

T08:Environmental applications

Chair: Semih Eser

10:30	The influence of the flow pattern of the contaminated air on the adsorption behaviour of an activated carbon filter. (#0006)	Peter, Lodewyckx
10:45	Improved H ₂ S and Hg removal from natural gas using petcoke derived adsorbents (#0173)	Ania, Conchi
11:00	New advances in the development of carbonaceous sorbents to retain mercury in the gas phase (#0882)	Antuñña Nieto, Cristina
11:15	Photocatalytic oxidation of propane with TiO ₂ and TiO ₂ -C photocatalysts (#0443)	Cano-Casanova, Laura
11:30	Activated carbon supporting biotrickling filters for siloxane removal in biogas upgrading (#0626)	Santos-Clotas, Eric
11:50	KN - Ionothermal nanoporous carbons: superior adsorbents for diclofenac and sulfamethoxazole removal from synthetic wastewater (#0778)	Mestre, Ana Sofia
12:20	Carbon nanotubes effect on the morphology and transport properties of aromatic polyamide reverse osmosis membranes (#0651)	Cruz-Silva, Rodolfo
12.35	Development of activated phenol-formaldehyde beads with bamboo tar addition for organic vapor adsorption (#0935)	Chen, Yu-Ting
12:50	CO ₂ adsorption behavior of pollen-derived porous carbon (#0459)	Choi, Seung Wan

Friday 5th Room 4

T10:Carbons for health, medical and biological applications

Chair: Sergey Mikhalovsky

10:30

10:45

11:00 Single walled carbon nanotube (SWCNT) based stretchable strain sensor (#0030) Ahuja, Preety

11:15 Electrochemical immunosensor based on carbon nanotubes decorated with gold nanoparticles for the detection of PSA (#0193) Quintero Jaime, Andrés Felipe


11:30 Improving electrical conductivity and elasticity of carbon nanotube composites for flexible and stretchable electronics (#0261) Hwang, Ji-Young

11:50 **KN - 3D printed guidelines from nanofibrillated cellulose/carbon nanotubes inks for application in neural tissue engineering (#0118)** Kuzmenko, Volodymyr

12:20 Bioactive coatings on carbon fiber for bone tissue application (#0120) Zhang, Leilei

12.35

12:50



Friday 5th Room 5

T01:Graphene and graphite

Chair: Luiz Depine de Castro

10:30	Functionalization with a probe molecule towards the basal plane of the graphene oxide (#0802)	Piñeiro García, Alexis
10:45	Structure and stability of intercalated multilayer graphene (#0422)	Matsumoto, Rika
11:00	Dislocation motion and dynamics in bilayer graphene extended to radiation damage of nuclear graphite in reactors (#0439)	Mouratidis, Pavlos
11:15	Effect of graphene oxide synthesis method on performance of polysulfone-graphene oxide mixed matrix membrane (#0469)	Sali, Safae
11:30	Microwave hydrogen cold plasma as reducing agent for graphene oxide (#0471)	López-Garzón, F. Javier
11:50	KN - Carbon-coupled plasmonic sensors: from quantum coupling to subwavelength resonant strain sensors (#0377)	Aramesh, Morteza
12:20	Interlayer study of graphene stacks (#0876)	Zhao, Pei
12.35	Three-dimensional bilayer graphene structures produced by passage of an electric current (#0879)	Harris, Peter
12:50	Novel one pot green approach for synthesis of well exfoliated multilayer nitrogen-doped graphene nanosheets (#0234)	Mohamed, Marwa
