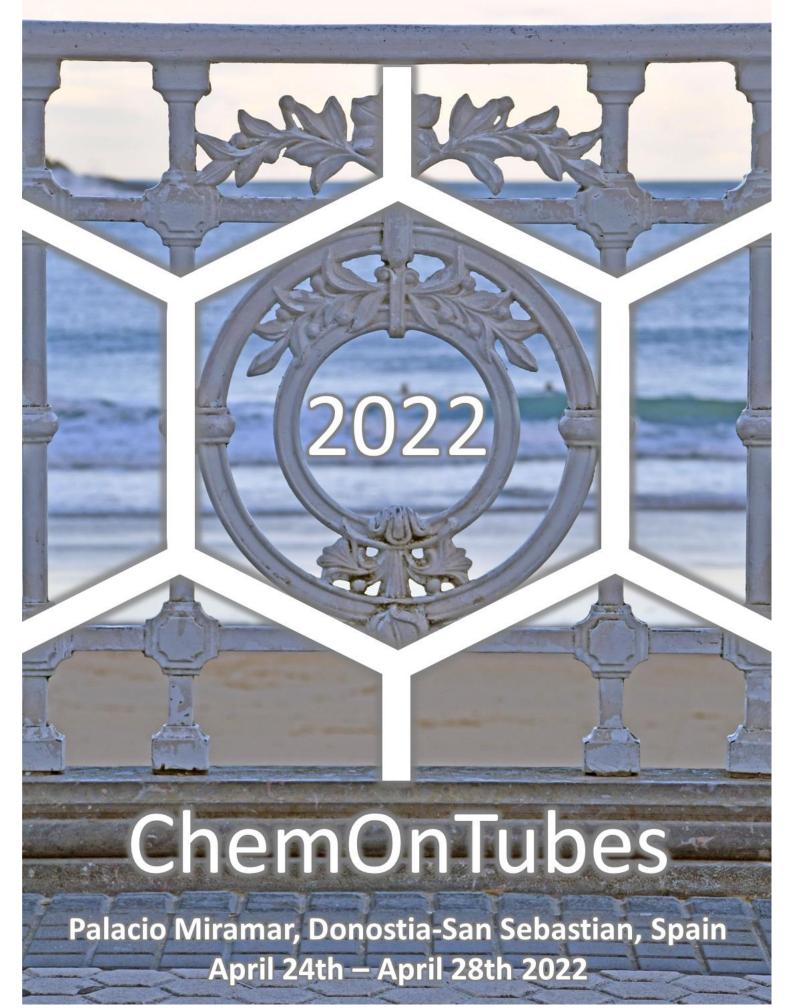


UDA IKASTAROAK CURSOS DE VERANO SUMMER COURSES









Sunday, 24 <sup>th</sup> April 2022	
15:00 h	Registration
17:00 h	Opening: Alejandro Criado and Maurizio Prato
17:15 h	Session 1: sponsored by Gobierno Vasco
	- I1: Nicholas Kotov (University of Michigan)
	Unifying Structural Descriptors for High Complexity Biomimetic Assemblies between Chiral
	Nanoparticles, Nanocarbons and Proteins
18:00 h	- O1. Shani Ligati Schleifer
	3D printing of carbon-based composites with enhanced thermal conductivity
18:20 h	- O2. Salomè Forel
	Diameter-dependent single- and double-file stacking of squarylium dyes inside single-wall carbon
	nanotubes
18:40 h	- O3. Alejandro Galán-González
	Graphene quantum dots sensitization of ZnO nanowires
19:00 h	Welcome Buffet

Monday, 25th April 2022	
9:30 h	Session 2: sponsored by CIC biomaGUNE
	- I2: Aurelio Mateo-Alonso (Polymat)
	Extending, Distorting and Stacking Nanographenes into 1D, 2D and 3D Structures
10:15 h	- O4. José Gonzalez-Dominguez
	Extraordinary Protective Efficacy of Graphene Oxide over the Stone-Based Cultural Heritage
10.:35 h	O5. Maria Antonia Herrero
	The role of graphene derivates in hydrogel structures: applications and self-healing
10:55 h	- O6. Aldo Zarbin
	Thin films of carbon nanostructures and 2D-based materials at liquid/liquid interfaces: from
	preparation to devices
11:15 h	Coffee break
11:45 h	Session 3: sponsored by CICA
	- I3: Sabine Szunerits (University of Lille)
	Graphene-based field effect transistor: differentiation between mild-moderate-severe myocardial
12:30 h	injury - 07. Giovanni Valenti
12.30 11	Advanced carbon nanomaterials for electrochemiluminescent biosensor applications
12:50 h	- O8. David Stringer
12.50 11	Reductively Crosslinked Single-walled Carbon Nanotube Networks for Gas Sensors
13:10 h	- 09. Mohsen Beladi-Mousavi
	Fine-Tuning the Physico-Chemical Features of Reduced Graphene Oxide
13:30 h	Lunch
15:00 h	Session 4: sponsored by ACS NANO
	- I4: Diego Peña (Universidad de Santiago)
	Bottom-up approach to carbon nanomaterials: from solution chemistry to on-surface synthesis
15:45 h	- O10. Gonzalo Abellan
10.05 1	<ul> <li>Carbon nano-onions: potassium intercalated and reductive covalent functionalization.</li> <li>O11. Martin Kalbac</li> </ul>
16:05 h	Localized and ordered functionalization of CVD graphene
10.051	- 012. Miles Martinati
16:25 h	- OIZ. While's Walt Linkti Wavelength-dependent Resonant Raman Spectroscopy of Graphene Nanoribbons Synthesized inside
	Carbon Nanotubes.

16:45 h	Coffee break
17:15 h	Session 5
	- O13. Vincent Bernardin
	Cooperative catalysis between metal single atoms and nanoparticles supported on carbon
	nanotubes
17:35 h	- O14. Reshma Jose
	Decisive role of spin-state and spin-coupling in dictating selective $O_2$ adsorption in chromium(III) metal-organic framework
	Flash contributions
18:00 h	- F1. Miguel Angel Alvarez-Sanchez
	Highly fluorescent green emissive Carbon Dots: synthesis, characterization and their use in green ${\sf H}_2$
	production
18:05 h	- F2. Matteo Lucherelli
18:10 h	Carbon nano onions – pristine vs oxidized comparison on cytotoxicity and ROS development - F3. Aina Fito Parera
18:10 1	<i>Diameter-dependent optical absorption and energy transfer from encapsulated dye molecules to</i>
	single wall carbon nanotubes
18.15 h	- F4. Vicente Orts
	Characterising Functionalised Graphene Nanoplatelets using Raman Spectroscopy & Machine
	Learning
18:20 h	- F5. Iluminada Rodriguez-Pastor
	Effective and scalable method for a graphene oxide with impressive selectivity in carboxyl groups
18:30 h	Poster session & Cocktail
	P1 Beneventi; P4 Carrera; P7 Chen; P10 Coulter; P13 Gomez Blanco; P16 Li; P19
	Mancino; P22 Merino; P25 Pascual; P28 Vera; P31 Wetzl; F1-F5

Tuesday, 26 <sup>th</sup> April 2022	
9:30 h	Session 6: sponsored by AXA
	- I5: Alberto Bianco (CNRS Strasburg)
	Radicals on chemically modified graphene oxide: mechanism of generation and biological activity
10:15 h	- O15. Apolline Simon
	Impact of the coating of single-walled carbon nanotubes on their diffusion properties within biological models
10:35 h	- O16. Somen Nandi
	Sp3 Defects Implanted Ultrashort Carbon Nanotubes as NIR-II Biomarkers
10:55 h	- 017. Eric Anglaret
	Volume phase transition in PNIPAM/SWNTs hybrid microgels triggered by near infrared photo-
	thermal excitation
11:15 h	Coffee break
11:45 h	Session 7: sponsored by Fisher Scientific
	- I6: Dirk Guldi (Friedrich-Alexander-Universität)
	From Carbon Dots and Graphene Quantum Dots to HBCs and Beyond
12:30 h	- 018. Antonio Setaro
	Single-walled carbon nanotubes charge management by controlled functionalization
12:50 h	- O19. Dmitry Levshov
	Detailed optical spectroscopy reveals efficient inner-to-outer wall energy transfer in highly pure
	double-wall carbon nanotubes
13:10 h	- O20. Cristina Madrona
	Intercalation of carbon nanotube yarns with acceptors
13:30 h	Lunch

15:00 h	Session 8: sponsored by Carlo Erba
	- I7: Ester Vazquez (Universidad de Castilla-La Mancha)
	2D materials for 3D smart soft structures
15:45 h	- O21. Daniel Iglesias
	Multiple functionalization of exfoliated MoS2 via supramolecular interactions towards multi-
	responsive devices.
16:05 h	- O22. Marina Garrido
	Exfoliation and Functionalization of MoS2 through Non-Covalent Interactions
16:25 h	- O23. Jana Vejpravová
	Towards single molecule magnet – pseudospin hybrids
16:45 h	Coffee break
17:15 h	Session 9
	- O24. Oren Regev
	Reinforcement and workability aspects of graphene-oxide-reinforced cement nanocomposites
17:35 h	O25. Milo Shaffer
	Incorporating nanotubes into next generation fibre reinforcements
17:55 h	- O26. Anastasiia Mikhalchan
	Development of CNT fibres and fabrics for structural composites through control of alignment
18:15 h	- O27. Afshin Pendashteh
	Nanocomposites Based on Built-in CNT Fabric Current Collector for Energy Storage
18:45 h	Poster session & Cocktail
	P2 Benito; P5 Cesco; P8 Collavini; P11 Ford; P14 Hamouma; P17 Lopez; P20 Martinez;
	P23 Misia; P26 Settele; P29 Wederhake

Wednesday, 27 <sup>th</sup> April 2022	
9:30 h	Session 10: sponsored by SFEC
	- I8: Alain Penicaud (University of Bordeaux)
	Nanocarbon solutions and more
10:15 h	- O28. Yuanzhi Xia
	Grafting Ink for Direct Writing: Solvation Activated Covalent Functionalization of Graphene
10.:35 h	O29. Jaime Sanchez
	All-Electrochemical Nanofabrication of Stacked Ternary Metal Sulfide/Graphene Electrodes for
	Aqueous Batteries
10:55 h	- O30. Carlos Martínez-Barón
	Single-walled carbon nanotubes/nanocellulose hybrid films: towards the development of PEC
	water splitting photoanodes
11:15 h	Coffee break
11:45 h	- Session 11: sponsored by RSEQ-GENAM
	- I9: Cinzia Casiraghi (University of Manchester)
	Water-based, defect-free and biocompatible 2D material inks enabled by supramolecular
	chemistry
12:30 h	- O31. Luna Boulbet
	Graphene dispersion in water: formulation and stability
12:50 h	- O32. Lucas Cullari
	Kinetically arrested dispersion: breaking dispersion barriers of carbon allotropes in aqueous
	solutions
13:10 h	- O33. Tiago Serodre
	Molecular insights into the production of few-layer graphene in N-Cyclohexylpyrrolidone + water
	mixtures
13:30 h	Lunch

15:00 h	Session 12: sponsored by Fomento Donostia- San Sebastián
	- I10: Silvia Marchesan (Università di Trieste)
	Where supramolecular chemistry meets carbon nanotubes
15:45 h	O34. Tommaso Costantini
	Stoichiometric Control of Reductive SWCNTs Cross-Linking and applications of nanotube aerogels in CO2 capture
16:05 h	- O35. Lorenza Maddalena
	Polyelectrolyte stabilized graphite nanoplatelets as building block for multi-layered gas barrier thin films
	Flash contributions
16:30 h	- F6. Kalpana Balaskandan
	Wet-Spun Carbon Nanotube Fibres as Structural Fibre Electrodes
16:35 h	- F7. Victor Calvo
	Nanostructured biopolymers as green dispersants of carbon nanomaterials
16:40 h	- F8. Teresa Cardona
	Graphene based devices containing PAHs/CNTs curcuminoids
16:45 h	- F9. Paul Debes
	Molecular Rectifiers: Diamantane-Fullerene Adducts
16:50 h	- F10. Shegufta Upama
	Processing of CNT/inorganic hybrid electrodes via rapid Joule heating
16:55 h	Poster session & Coffee break
	P3 Bolivar; P6 Chavignon; P9 Colom; P12 Gatti; P15 Heimfarth; P18 Luzzato; P21
	Maser; P24 Neri; P27 Silvestri; P30 Weller; F6-F10
21:00 h	Gala Dinner

Thursday, 28 <sup>th</sup> April 2022	
10:30 h	Session 13
	- I11: Mauricio Terrones (Pennsylvania State University)
	Carbon nanotube technology: An efficient platform for virus enrichment and detection
11:15 h	Coffee break
11:30 h	Session 14
	- O36. Sara Amar
	Zeolite-Templated Carbon: a 3D Interconnected Graphenic Network
11:50 h	- O37. Marina Avramenko
	Shedding light on the mechanisms of aqueous two-phase separation of single-wall carbon nanotubes
12:10 h	- O38. David Tilve Martinez
	3D printing of conductive nanocarbon based composites
12:30 h	- O39. Gal Shachar-Michaely
	The hybrid filler synergistic effect in nanocarbon-loaded polymer composites
13:00 h	Closure
13:30 h	Lunch