



International Conference on Directed Self-Assembly and Nanostructured Materials (DSA²⁰²⁴)

October 17th and 18th, 2024
Grenoble, France

Conference place : MaCI - Maison de la Création et de l'Innovation
Université Grenoble Alpes
339 avenue Centrale, 38400 Saint-Martin-d'Hères

Thursday October 17 th , 2024	
8:30 a.m.	Registration
9:00	Welcoming words by Redouane Borsali , Grenoble Alpes University, UGA-CNRS-CERMAV – Grenoble, France
9:15	Sang Ouk Kim , Korea Adv. Institute of Science & Technology (KAIST), Daejeon, Korea <i>"Block copolymer nanopatterning for semiconductor, IoT and beyond"</i>
10:00	Caroline Ross , Massachusetts Institute of Technology (MIT), Cambridge, MA, USA <i>"Directed self-assembly of multiblock copolymers in 2D and 3D"</i>
10:45	Flash Presentations
11:00	Coffee Break & POSTERS
11:30	Redouane Borsali , Grenoble Alpes University, UGA -CNRS-CERMAV, France <i>"Self-assembly of sugar-based bloc copolymers"</i>
12:15	Lunch On site
2:00 p.m.	Makoto Ouchi , Kyoto University, Kyoto, Japan <i>"Significant impacts of urea-based junction in PS-PMMA block copolymer on phase separation"</i>
2:45	Takuya Isono , Hokkaido University, Sapporo, Japan <i>"Diverse PS-b-PMMA derivatives via post-polymerization modifications"</i>
3:30	Coffee Break & POSTERS
4:00	Makoto Muramatsu , Tokyo Electron, Tokyo, Japan <i>"Multi-patterning holes by chemo-epitaxy process and the scalability"</i>
4:45	Hyeong Min Jin , Chungnam National University, Daejeon, Korea <i>"Directed molecular self-assembly through photo-thermal processes"</i>
5:00	Kenji Yoshimoto , Kanazawa University, Kanazawa, Japan <i>"Potentials of multiblock copolymers for DSA applications"</i>
5:45	Conclusion of DSA ²⁰²⁴ - Day 1
7:30	Dinner at restaurant "L'Epicurien" - 1 place aux Herbes, 38000 Grenoble (downtown)



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Friday October 18 th , 2024	
8:30 a.m.	Registration
9:00	Jin Kon Kim , Pohang University of Science and Technology, Pohang, Korea <i>"Tetragonally and rectangularly packed hierarchical cylinders from A₁BA₂C tetrablock terpolymer"</i>
09:45	Teruaki Hayakawa , Tokyo Institute of Technology, Tokyo, Japan <i>"Achieving ultra-small features with chemically modified block copolymers"</i>
10:30	Coffee Break & POSTERS
11:00	Hai Deng , Fudan University, Shanghai, China <i>"Kinetics and orientation study of fast-assembling fluoro BCPs"</i>
11:45	Itaru Osaka , Hiroshima University, Hiroshima, Japan <i>"Design and synthesis of π-conjugated polymers for efficient organic photovoltaics"</i>
12:30	Lunch On site
2:00 p.m.	Su-Mi Hur , Chonnam National University, Gwangju, Korea <i>"Exploring Directed self-assembly (DSA) in conjunction with EUVL for improved pattern quality via molecular simulations"</i>
2:45	Lander Verstraete , IMEC, Institut de micro-électronique et composants, Leuven, Belgium <i>"Enabling chemically amplified resists towards tight pitch EUV patterning by DSA rectification"</i>
3:30	Coffee Break & POSTERS
4:00	Jörg K. N. Lindner , University of Paderborn, Paderborn, Germany <i>"Progress in the nanopatterning of silicon surfaces with block-copolymer lithography"</i>
4:45	Marc Zelsmann , UGA, CNRS- LTM, Grenoble, France <i>"Self-assembly and dry etching of high-χ block copolymers in a microelectronics context"</i>
5:00	Michele Perego , IMM-CNR, Agrate Brianza, Italy <i>"Doping of silicon at nanoscale by ultra-low energy ion implantation through block copolymer templates"</i>
5:45	Conclusion of the DSA ²⁰²⁴
7:30	<i>Dinner at restaurant (to be confirmed) Grenoble (downtown)</i>

