Preface to the proceedings of the 9th conference on spectroscopic ellipsometry (ICSE-9)

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ARTICLE INFO

Keywords:
Preface
Spectroscopic Ellipsometry
Paul Drude Award

ABSTRACT

The 9th International Conference on Spectroscopic Ellipsometry (ICSE-9) was held in Beijing, China from May 22nd to 28th, 2022. This special issue of Thin Solid Films collects 38 peer-reviewed articles that were presented at ICSE-9. These articles are expected to inspire the scientific community of spectroscopic ellipsometry and related fields.

This special issue of Thin Solid Films covers the presentations at the 9th International Conference on Spectroscopic Ellipsometry (ICSE-9), which was held in Beijing, China from May 22nd to 28th, 2022. Due to the global impact of the COVID-19 pandemic, ICSE-9 had to be a fully online event. ICSE-9 continued the well-established ICSE series (ICSE-1, Paris, France, 1993; ICSE-2, Charleston, USA, 1997; ICSE-3, Vienna, Australia, 2003; ICSE-4, Stockholm, Sweden, 2007; ICSE-5, Albany, USA, 2010; ICSE-6, Kyoto, Japan, 2013; ICSE-7, Berlin, Germany, 2016; ICSE-8, Barcelona, Spain, 2019) as the largest and best-known international conference on spectroscopic ellipsometry and related techniques, which provided an excellent forum for scientists and engineers to communicate the developments in the related fields.


There were 4 tutorials, 7 keynote presentations, 75 oral presentations including 20 from invited speakers, and 76 posters presented on the online platform of ICSE-9 covering all the above mentioned topics. In addition, 6 industrial sponsors and 2 exhibitors demonstrated their latest products at the Exhibitor Session.

The Paul Drude Award, the most prestigious award in the ellipsometry community, is named in honor of the physicist Paul Karl Ludwig Drude (1863-1906) and given to young scientists for exceptional contributions to ellipsometry. The Paul Drude Award in 2022 were received by Dr. Honggang Gu (an assistant professor at Huazhong University of Science and Technology, Wuhan, China) for his excellent contribution to the development of advanced Mueller matrix ellipsometry (MME) with pioneering application in emerging 2D materials and Dr. Alyssa Mock (an assistant professor at Weber State University, Ogden, USA) for her pioneering work on generalized ellipsometric analysis of ultra-wide bandgap metal oxides with low-crystal symmetry. The award was presented by the Selection Committee Secretary at a special session of ICSE-9, followed by invited lectures by the two winners. The award consisted of a certificate, a prism, and a monetary price of 1000 EUR, which was sponsored by Wuhan Optics Technology Co. Ltd.


With the support of the editorial team of Thin Solid Films, 47 manuscripts related to ICSE-9 were submitted for peer-review. The review process lasted about 9 months, strictly following the peer review and publication rules of Thin Solid Films. Only high quality articles were accepted for publication. Finally, 38 peer-reviewed articles covering a variety of topics in the field of spectroscopic ellipsometry have been collected in this special issue of Thin Solid Films. We hope that these articles may inspire the scientific community of spectroscopic ellipsometry and related fields.

At last, on behalf of the ICSE-9 conference chair, Prof. Gang Jin, and other members of the ICSE-9 organizing committee, we deeply appreciate the trust and support from the international ellipsometry community. We would like to express our gratitude to all the authors and reviewers of this special issue, as well as all participants, sponsors, and exhibitors of ICSE-9. ICSE-10 will be held in Denver, Colorado, United States in 2023.

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https://doi.org/10.1016/j.tsf.2023.139980

Available online 20 July 2023
0040-6090/© 2023 Published by Elsevier B.V.
States in 2025. We are looking forward to meeting each other again at ICSE-10.

Guest Editors of *Thin Solid Films* Special Issue of the ICSE-9 Proceedings

Photo: Attendees of ICSE-9 held in Beijing, China from May 22nd to 28th, 2022.

Declaration of Competing Interest

None.