ISPC-20

Gregory Fridman

Published online: 5 May 2012
© Springer Science+Business Media, LLC 2012

The 20th International Symposium on Plasma Chemistry (ISPC-20) was held at The Loews Philadelphia Hotel in Philadelphia, Pennsylvania, USA, from July 24th to 29th 2011. ISPC is a biennial international conference held under the auspices of the International Plasma Chemistry Society (IPCS). ISPC-20 was hosted by the A. J. Drexel Plasma Institute, and was sponsored in part by the National Science Foundation, International Society for Plasma Medicine (ISPM), Philadelphia Convention and Visitors Bureau, Greater Philadelphia Life Sciences Congress, Drexel University, International Union of Pure and Applied Chemistry (IUPAC), Temple University, GOJO Industries, Inc., Woodcock Washburn, and John and Chris Nyheim.

ISPC-20 topics encompassed the whole area of plasma chemistry and plasma processing science, from fundamentals to applications. The symposium was organized to include plenary lectures, invited and contributed oral presentations, poster sessions, and a special session on plasma biology and medicine. Over 400 participants (150 students) from over 40 countries presented 547 papers. Five plenary speakers and 14 topical invited speakers covered a broad range of topics. The keynote lectures were complemented by 146 oral contributions and 388 poster presentations in 12 categorized scientific topical areas.

This section of *Plasma Chemistry and Plasma Processing* contains four peer-reviewed manuscripts based on plenary lectures and topical invited contributions presented at ISPC-20. These articles are by invited lecturers Igor Adamovich, Mario Capitelli, Vittorio Colombo, Khaled Hassouni, and their coauthors. This selection represents the general trend of the symposium, with contributions in both low and high pressure plasma chemistry, kinetic modeling, and various applications ranging from thermal plasma cutting to microelectronics to medical and biological systems. Complete Symposium proceedings are available online at <http://www.ispc-conference.org/>.

G. Fridman (✉)
Drexel University, Philadelphia, PA, USA
e-mail: Greg.Fridman@drexel.edu