

University of Michigan

Publications on Multipactor

A. Multipactor on a Dielectric Surface

1. R. A. Kishek and Y. Y. Lau, "Multipactor Discharge on a Dielectric", *Phys. Rev. Lett.* **80**, 193 (1998).
2. L. K. Ang, Y. Y. Lau, R. A. Kishek, and R. M. Gilgenbach, "Power Deposited on a Dielectric by Multipactor Discharge", *IEEE Trans. Plasma Sci.* **26**, 290 (1998).
3. A. Valfells, J. P. Verbonceour, and Y. Y. Lau, "Space Charge Effects on Multipactor on a Dielectric", *IEEE Trans. Plasma Sci.* **28**, 529 (2000).
4. A. Valfells, L. K. Ang, and Y. Y. Lau, and R. M. Gilgenbach, "Effects of an External Magnetic Field, and of Oblique Radio-Frequency Electric Fields on Multipactor Discharge on a Dielectric", *Phys. Plasmas* **7**, 750 (2000).
5. R. B. Anderson, W. D. Getty, M. L. Brake, Y. Y. Lau, R. M. Gilgenbach, and A. Valfells, "Multipactor experiment on a dielectric surface", *Rev. Sci. Instrum.* **72**, 3095 (2001).

B. Multipactor in a Metallic Resonant Cavity

1. R. Kishek and Y. Y. Lau, "Interaction of Multipactor Discharge with RF circuits", *Phys. Rev. Lett.* **75**, 1218 (1995).
2. R. A. Kishek and Y. Y. Lau, "A Novel Phase Focusing Mechanism in Multipactor Discharge", *Phys. Plasmas (Lett.)* **3**, 1481 (1996).
3. R. A. Kishek, Y. Y. Lau, and D. Chernin, "Steady State Multipactor and Dependence on Material Properties", *Phys. Plasmas* **4**, 863 (1997).
4. A. Valfells, R. A. Kishek, and Y. Y. Lau, "Frequency Response in Multipactor Discharge", *Phys. Plasma* **5**, 300 (1998).
5. R. A. Kishek, Y. Y. Lau, L. K. Ang, A. Valfells, and R. M. Gilgenbach, "Multipactor Discharge on Metals and Dielectrics: Historical Review and Recent Theories", Invited Paper, *Phys. Plasmas* **5**, 2120 (1998).