

# Publications

## F.G. TOMASEL

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### PAPERS IN PEER-REVIEWED JOURNALS (1000 TOTAL CITATIONS AS OF DEC 10)

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29. F. G. TOMASEL, V.N. Shlyaptsev , and J.J. Rocca, “Spectroscopically pure metal vapor source for highly charged ions spectroscopy and capillary discharge soft x-ray lasers”, *Review of Scientific Instruments* **79**, 013503 (2008).

28. W.D. Sproul, D.J. Christie, D.C. Carter, F. TOMASEL, and T. Linz, “Pulsed plasmas for sputtering applications”, *Surface Engineering* **20** (3), 174 (2004).

27. D.J. Christie, F. TOMASEL, W.D. Sproul, and D.C. Carter, “A novel power supply with arc handling for high peak power magnetron sputtering”, *Journal of Vacuum Science and Technology* **22** (4), 1415 (2004).

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25. F.G. TOMASEL and P.A.A. Laura, “Assessing the healing of mechanical structures through changes in their vibrational characteristics detected by fiber optic Bragg gratings”, *Journal of Sound and Vibration* **253**, 523-7 (2002).

24. O. Antón, R. Hidalgo, R. Rivera, and F.G. TOMASEL, “Simple swept-sine analyzer for excitation and measurement of dynamic structural response”, *Ocean Engineering* **29**, 1209-17 (2002).

23. F.G. TOMASEL, O.D. Cortázar, and P.A.A.Laura, “Health monitoring of steel cables by interrogation of optical fiber gratings sensors”, *Journal of Sound and Vibration* **252**, 573-6 (2002).

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19. Y. Liu, M. Seminario, F.G. TOMASEL, C. Chang, J.J. Rocca, and D.T. Attwood, "Achievement of essentially full spatial coherence in a high-average-power soft-x-ray laser", *Physical Review A* **63**, 033802 (2001).
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15. J.J. Rocca, F.G. TOMASEL, C.H. Moreno, V.N. Shlyaptsev, M.C. Marconi, B.R. Benware, J.J. Gonzalez, J.L.A. Chilla, and C.D. Macchietto, "Progress in the development of table-top discharge-pumped soft X-ray lasers". *J. de Physique IV*, **7**, C4-353 (1997).
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## BOOK CHAPTERS

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F.G. TOMASEL and J.M. Paruelo, "Primary production estimation in grasslands of South and North America by ANN analysis of satellite data", Chapter 5 in "Artificial Neuronal Networks: Applications to Ecology and Evolution". Springer-Verlag (Germany, 2000) S. Lek and J-F. Guégan, Eds.

## PATENTS AWARDED

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3. J.J. González, S. Geissler, and F.G. TOMASEL, "Method for measuring power in a transformer coupled plasma source". US 6,819,096

4. J.J. González, A. Shabalin, S. Dillon, and F.G. TOMASEL, "Vacuum seal protection in a dielectric break". US 6,927,358

5. J.J. González, S. Dillon, A. Shabalin, J. Mauck, and F.G. TOMASEL, "Deterioration resistant chambers for inductively coupled plasma production". US 6,946,063

6. J.J. González, S. Geissler, and F.G. TOMASEL, "Power measurement mechanism for a transformer coupled plasma source". US 7,005,845

7. J.J. González, F.G. TOMASEL, and A. Shabalin, "Pulsed excitation of inductively coupled plasma sources". US 7,115,185

8. J.J. González, A. Shabalin, and F.G. TOMASEL, "Reaction enhancing gas feed for injecting gas into a plasma chamber". US 7,468,494

9. F.G. TOMASEL, J. Mauck, and J.J. González, "System and method for delivering vapor". US 7,547,005

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