

BIBLIOGRAFIA

- I. F. Belloni, G. Caretto, A. Lorusso, V. Nassisi, M.V. Siciliano, "Photo-emission studies from Zn cathodes under plasma phase", *Radiation Effects and Defects in Solids*, **160**, p 587-594, 2005.
- II. G. Caretto, D. Doria, V. Nassisi and M.V. Siciliano, "Photoemission studies from metal by UV lasers", *Journal of Applied Physics*, **101**, 73109-73116, 2007.
- III. G. Caretto, L. Martina, V. Nassisi, M.V. Siciliano, "Behavior of photocathodes on superficial modification by electrical breakdown", *Nuclear Instruments and Methods B*, 2007 (in press).
- IV. G. Caretto, L. Martina, V. Nassisi and M.V. Siciliano, "Temporal behavior of photoemission for Yttrium cathodes" *Radiation Effects and Defects in Solids*, **163**, 2008.
- V. G. Caretto, P. Miglietta, V. Nassisi, A. Perrone and M.V. Siciliano, "Photoelectron performance of Y thin films and Y smooth bulk", *Radiation Effects and Defects in Solids*, **163**, 2008.
- VI. F. Belloni, G. Caretto, A. Lorusso, V. Nassisi, A. Perrone and M.V. Siciliano, "Photo-emission studies from Zn cathodes under plasma phase", *PPLA II, Giardini Naxos, Catania, Italy*, June 8-11, 2005.
- VII.F. Belloni, G. Caretto, D. Doria A. Lorusso, V. Nassisi, A. Perrone, M.V. Siciliano, "Studio dell'evoluzione temporale dell'efficienza quantica di un fotocatodo metallico", *XCI Congresso Nazionale SIF, Catania, Italy*, September 26 - October 1, 2005.
- VIII.V.Nassisi, G.Caretto, A.Lorusso, D.Doria, F. Belloni and M.V.Siciliano, "Temporal quantum efficiency of a micro-structured cathode", *EPAC 06, Edimburgh, Scotland*, June 26-30, 2006.

- IX. D. Doria, F. Belloni, A. Lorusso, G. Caretto, V. Nassisi and M.V. Siciliano, "Plasma influence on photoemission from metal by UV lasers", *ESCAMPIG XVIII, Lecce, Italy*, July 12-15, 2006.
- X. F. Belloni, G. Caretto, D. Doria, A. Lorusso, V. Nassisi, P. Espositivo, V. Nicolardi, "Compressori di corrente e tensione e nuovi circuiti di amplificazione con linee di trasmissione", *XCII Congresso Nazionale SIF, Torino, Italy*, September 18-23, 2006.
- XI. G. Caretto, L. Martina, V. Nassisi and M.V. Siciliano, "Temporal behavior of photoemission for Yttrium cathodes", *PPLA III, Scilla, Reggio Calabria, Italy*, June 14-16, 2007.
- XII.G. Caretto, P. Miglietta, V. Nassisi, A. Perrone and M.V. Siciliano, "Photoelectron performance of Y thin films and Y smooth bulk", *PPLA III, Scilla, Reggio Calabria, Italy*, June 14-16, 2007.
- XIII.G. Caretto, V. Nassisi, M.V. Siciliano, "Role of plasma in temporal behaviour for Y cathodes", *ICPIG XXVIII, Praga, Czech Republic*, July 15-20, 2007.
- XIV. G. Caretto, V. Nassisi and M.V. Siciliano, "Electron emission performance of yttrium cathodes by UV lasers", *HEP 07, Manchester, England*, July 19-25, 2007.
- XV. G. Caretto, L. Martina, V. Nassisi and M.V. Siciliano, "Behavior of photocathodes on superficial modification by electrical breakdown", *ECAART IX, Firenze, Italy*, September 2-5, 2007.
- XVI.G. Caretto, P. Miglietta, V. Nassisi, A. Perrone, M.V. Siciliano, "Studio di fotoemissione da catodi di ittrio", *XCIII Congresso Nazionale SIF, Pisa, Italy*, September 24-29, 2007. [1] C. Kittel, "Introduction to solid state physics", Wiley, (1968).

[1] C. Kittel, "Introduction to solid state physics", Wiley, (1968).

[2] S. Dushman, "Electron Emission from Metals as a Function of Temperature", *Phys.Rev.* **21**, 623 (1923).

[3] D. J. Griffiths, "Introduction to Electrodynamics", Prentice Hall (1998).

- [4] X. Wang, “*Emission of prompt electrons during excimer laser ablation of aluminium targets*”, *Appl. Phys. Lett.* **75**, 7 (1999).
- [5] R.H. Fowler and L.W. Nordheim, “*Electron emission in intense Electric fields*” *Proc. Roy. Soc. (London), Ser A* 119, 173 (1929).
- [6] R. H. Good, Jr., and E.W. Muller, “*Handbuch der Physik*”, Vol. 21, Springer, Berlin (1956).
- [7] W.W. Dolan, W.P. Dyke and S.K. Trolan, “*The Field Emission Initiated Vacuum Arc. II. The Resistively Heated Emitter*”, *Physik. Rev.* **91**, 1054 (1953).
- [8] S.P. Bugaev, E.A. Litvinov, G.A. Mesyats and D. J. Proskuroskii, “*Explosive emission of electrons (from a cathode)*”, *Sov. Phys. Usp.* **18**, 51 (1975).
- [9] A. Beloglazov, V. Nassisi and M. Primavera, “*Excimer laser induced electron beams on an Al target: Plasma effect in a ‘nonplasma’ regime*”, *Rev. Sci. Instrum.* **66**, 7 (1995).
- [10] R.H. Fowler and Guggenheim, “*Statistical Thermodynamics*”, Cambridge University Press (1965).
- [11] R.H. Fowler, “*Statistical Mechanics*”, University Press (1966).
- [12] A.H. Sommer, “*Photoemissive materials*”, Wiley & Sons (1968).
- [13] D.J. Leopold, J.H. Buckley, P. Rebillot, *J. App. Phys.* 98, 043525, 1-5 (2005).
- [14] J. Lin and T.F. George, “*Laser-generated electron emission from surfaces: Effect of the pulse shape on temperature and transient phenomena*”, *J. Appl. Phys.* **54**, 382 (1983).
- [15] J.H. Bechtel, W. Lee Smith, N. Bloembergen, *Phys. Rev.* **B 15**, 4557 (1977).
- [16] E.M. Logothesis and P. Hartman, “*Three-photon photoelectric effect in gold*”, *Phys. Rev. Lett.* **18**, 581 (1976).
- [17] P. Lapostolle, *IEEE Trans. Nucl. Sci.* **NS 18**, 1101 (1971).
- [18] I. G. Brown, “*The Physics and Technology of ion Sources*”, Wiley & S. (1989).
- [19] A. Van Steenberg, *IEEE Trans. Nucl. Sci.* **NS 12**, 746 (1965).
- [1] V. Nassisi and M. R. Perrone, “*Generation and characterization of high intensity electron beams generated from rough photocathodes*”, *Rev. Sci. Instrum.* **70**, 11 (1999).

- [2] V. Nassisi and A. Luches, “*Rogowski coils: teory and experimental risults*”, Rev. Sci. Instrum. **50**, 900 (1979).
- [3] R. L. Copeland, J. L. Adamski, W. O. Doggett, D. L. Morrow, W. H. Bennet, “*Nanosecond response gasket-type magnetic loop current monitor for relativistic electron beam current measurements*”, Rev. Sci. Instrum., **50**, 233 (1979).
- [4] L. Martina, V. Nassisi, A. Pedone, P.P. Pompa and G. Raganato, “*Studies of electron beams propagation in space-charge regime*”, Rev. Sci. Instrum., **73**, 2552 (2002).
- [1] V.V Choulkov, “*Effect of natural roughness on electron emission from metal in electric field*”, IEEE CP **1**, 17 (2004).
- [2] M.S. Causo, M. Martino and V. Nassisi, Appl. Phys. **B 59**, 19 (1994).
- [3] L. Martina, V. Nassisi, G. Raganato and A. Pedone, Nucl. Instrum. Meth. **B 188**, 272 (2002).
- [4] D. Doria, A. Lorusso, F. Belloni, V. Nassisi, L. Torrisi and S. Gammino, Laser Part. Beams, **22**, 461 (2004).
- [5] J. Lin and T.F. George, “*Laser-generated electron emission from surfaces: Effect of the pulse shape on temperature and transient phenomena*”, J. Appl. Phys. **54**, 382 (1983).
- [1] [Corless et al. "On the Lambert W function", Adv. Computational Maths. 5, 329 \(1996\).](#)
- [2] V.V Choulkov, “*Effect of natural roughness on electron emission from metal in electric field*”, IEEE CP **1**, 17 (2004).