

INFLUENCE OF ULTRASONIC
RADIATION ON THE PROPERTIES OF PLASMA
IN A GAS DISCHARGE IMMERSSED IN A LIQUID

*S.V. Olszewski¹, Ok.V. Solomenko¹, V.Ya. Chernyak¹,
N.V. Belenok²*

¹Taras Shevchenko National University of Kyiv
(2/5, Academician Glushkov Ave., Kyiv 03022, Ukraine;
e-mail: *chernyak_v@ukr.net*),

²National Technical University of Ukraine
“Kyiv Polytechnic Institute”
(37, Peremoga Ave., Kyiv 03056, Ukraine)

S u m m a r y

Experimental researches of the properties of plasma–liquid systems have been carried out by studying an electrical discharge in the gas channel with a liquid wall, with additional excitation of the ultrasonic field in a liquid. The ultrasound field in the liquid phase of such systems was demonstrated to enhance the nitrous acid yield and affect the composition evolution in the plasma radiation spectrum.