

COMPARATIVE CHARACTERISTICS
OF EXCIMER XeCl LASER BASED
ON He/Xe/HCl AND He/Xe/CF₂Cl₂ MIXTURES

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S u m m a r y

We carry out the comparative analysis of the discharge and emission dynamics in XeCl lasers on the basis of He:Xe:HCl and He:Xe:CF₂Cl₂ mixtures. According to the results of our experiments and a numerical simulation, the energies achieved in the investigated media are approximately equal, therefore, Freon-12 can be used for creating a competitive XeCl laser on the basis of a relatively harmless mixture.