

VAPORIZATION OF CARBON IN AQUEOUS
SUSPENSIONS UNDER PULSED LASER
IRRADIATION

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S u m m a r y

Variations of optical transmittance of carbon black suspensions (CBS) irradiated by a powerful Q -switched neodymium laser have been studied. The experimentally observed kinetics and spectra of laser-induced absorption have been related to the evaporation of liquid around the particles and by the vaporization of particle material (carbon). Formation of fullerene C_{60} molecules in the carbon black suspension in water after laser irradiation has been revealed.