Electronic Supplementary Material (ESI) for Physical Chemistry Chemical Physics.

Electronic supporting information

Formation of carbon nanodots with different spin states in mechanically processed mixtures of ZnO with carbon nanoparticles: an electron paramagnetic resonance study

M. Kakazey,[1,a)] M. Vlasova,[1] V. Gómez-Vidales,[2] A. Ángeles-Pascual,[3] and V. A. Basiuk[4]

[1]*Centro de Investigación en Ingeniería y Ciencias Aplicadas, Universidad Autónoma del Estado de Morelos, 62210 Cuernavaca, Morelos, Mexico;*

[2]*Instituto de Química, Universidad Nacional Autónoma de México, Circuito Exterior C.U., 04510 Cd. México, Mexico;*

[3]*Sección de Electrónica del Estado Sólido, Departamento de Ingeniería Eléctrica, Centro de Investigación y de Estudios Avanzados del Instituto Politécnico Nacional, Zacatenco, 07360 Cd. México, Mexico;*

[4]*Instituto de Ciencias Nucleares, Universidad Nacional Autónoma de México, Circuito Exterior C.U., 04510 Cd. México, Mexico*

[a)]Authors to whom correspondence should be addressed. Electronic addresses: kakazey@hotmail.com

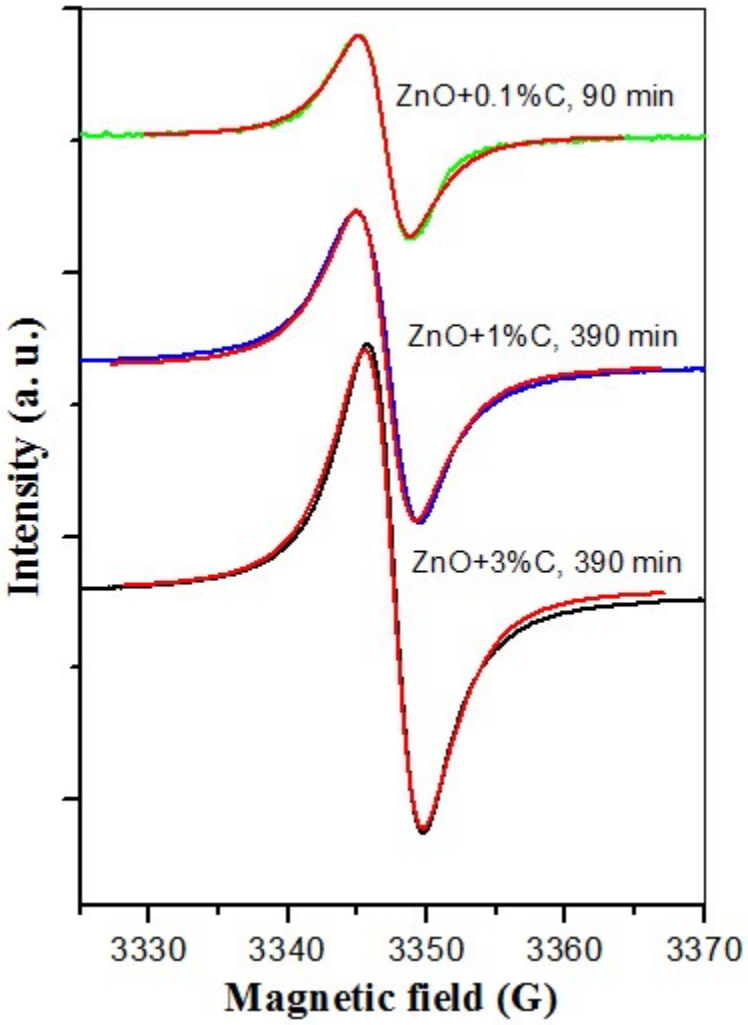

FIG. S1. Comparison of the shapes of experimental C EPR signals (black line, P = 0.5 mW) for ZnO+xC samples with a Lorentzian lineshape (red line) having the same width and amplitude.

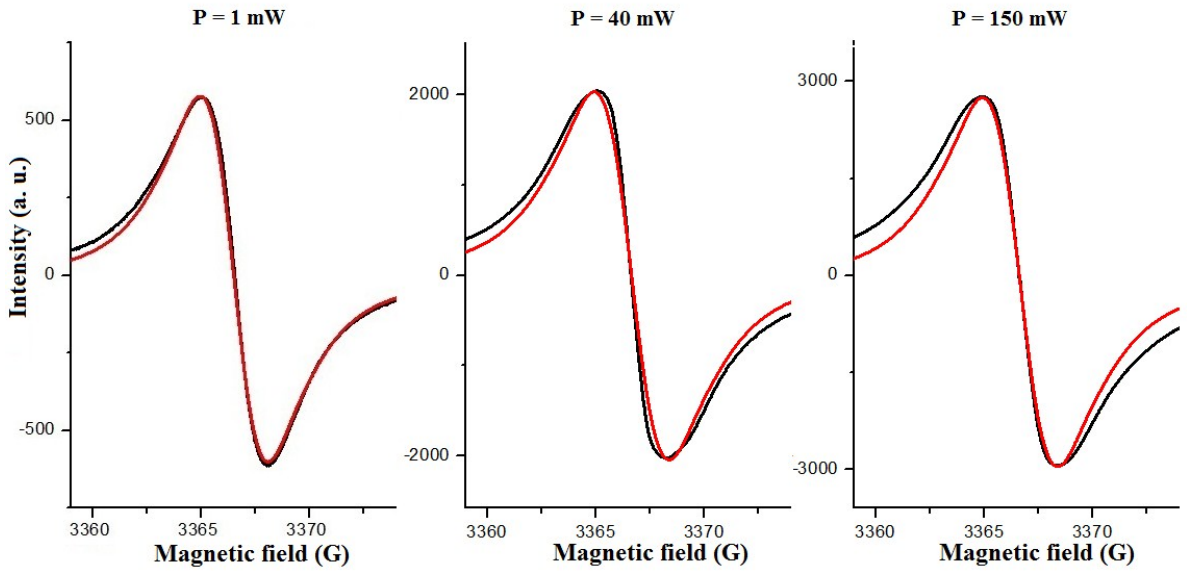

FIG. S2. Comparison of the shapes of experimental C EPR signals (black lines) recorded at different microwave power for ZnO+3% C sample with a Lorentzian lineshape (red lines) having the same width and amplitude.