Electronic Supplementary Material (ESI) for RSC Advances. This journal is © The Royal Society of Chemistry 2022

## **Electronic Supplementary Information**

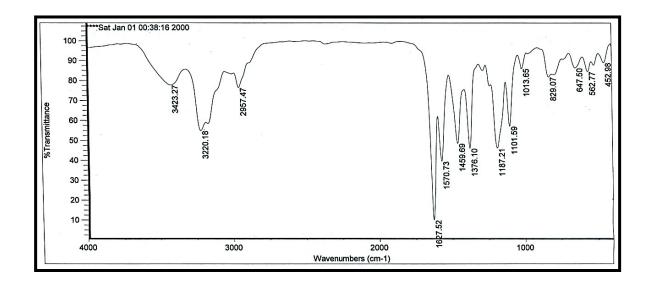
## Preparation of quinazolinones using biosynthesized silver nanoparticles

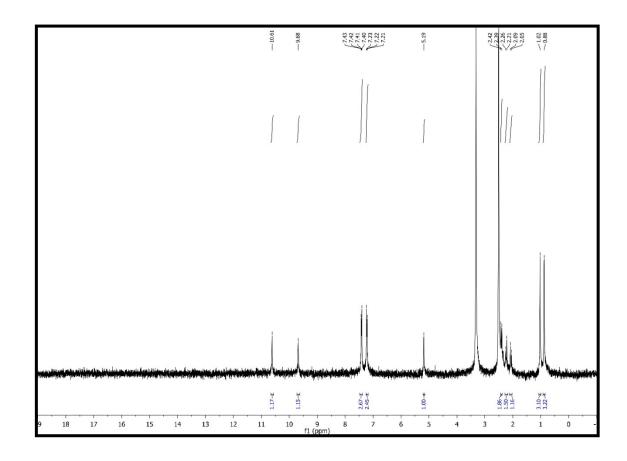
Javad Safaei-Ghomi,<sup>a\*</sup> Yasir Waleed Abdulhameed,<sup>b</sup> Zianos Alisavari,<sup>a</sup> Baram Ahmed Hamah Ameen,<sup>c</sup> Seyyed Mohammad Ebrahimi<sup>a</sup>

<sup>a</sup> Department of Organic Chemistry, Faculty of Chemistry, University of Kashan, Kashan, P.O. Box 87317-51167, I.R. Iran. \*E-mail: safaei@kashanu.ac.ir.

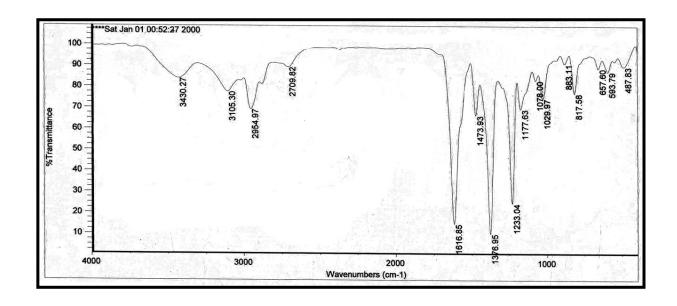
<sup>b</sup> College of Languages & Human Scienes, University of Garmian,

<sup>c</sup> Chemistry Department-College if Science- University of Sulaimaniyeh, Sulaimaniyah, Kurdistan Region of Iraq IR: 4-(4-Chloro-phenyl)-7,7-dimethyl-4,6,7,8-tetrahydro-1*H*,3*H*-quinazoline-2,5-dione (**4a**):

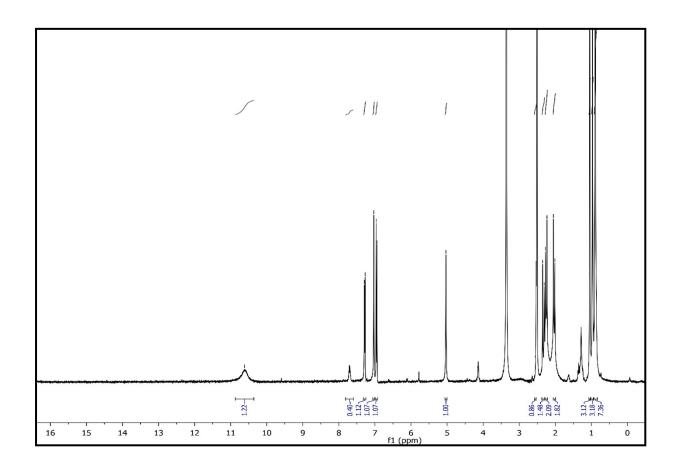




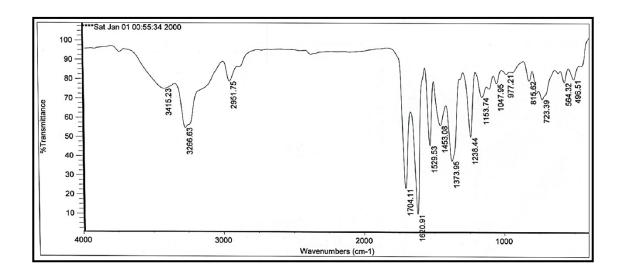
IR: 4-(2-hydroxy-5-bromo-phenyl)-7,7-dimethyl-4,6,7,8-tetrahydro -1H,3H-quinazoline-2,5-dione (4b):

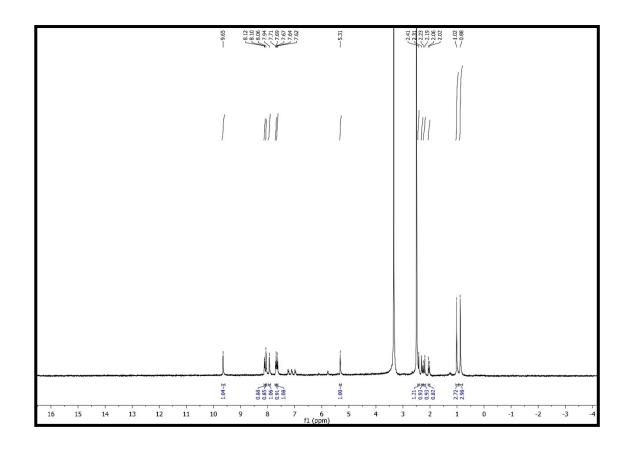


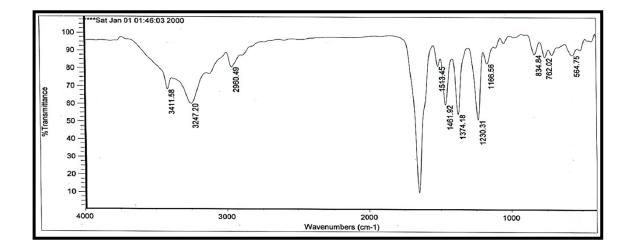
H NMR: 4-(2-hydroxy-5-bromo-phenyl)-7,7-dimethyl-4,6,7,8-tetrahydro -1H,3H-quinazoline-2,5-dione (4b):

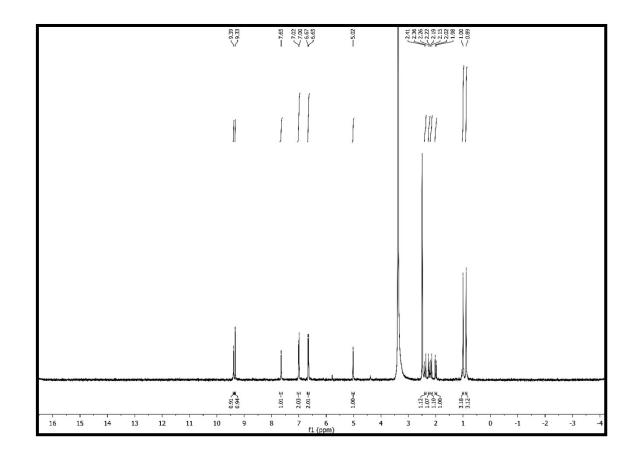


4-(3-nitro-phenyl)-7,7-dimethyl-4,6,7,8-tetrahydro -1H,3H-quinazoline-2,5-dione (4c):

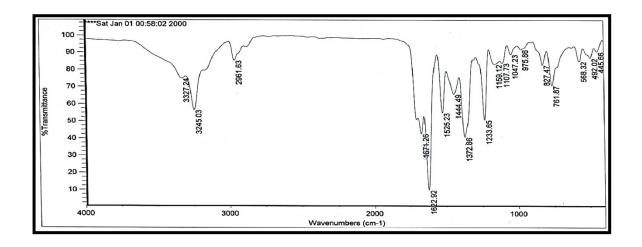


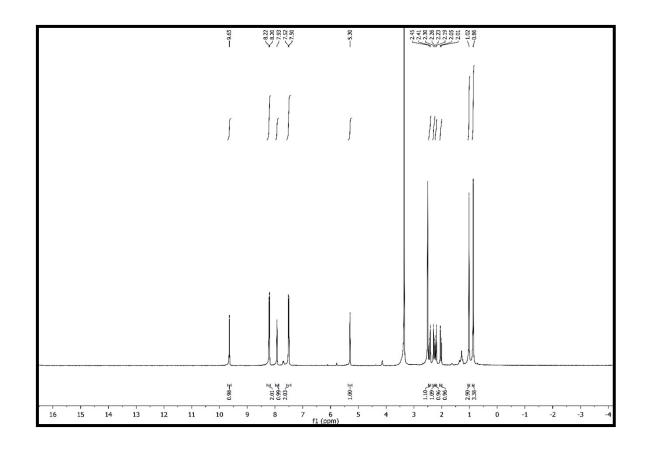




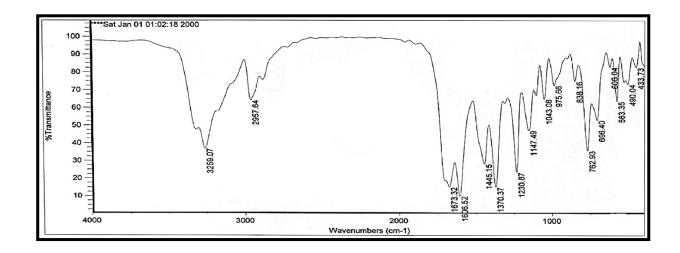


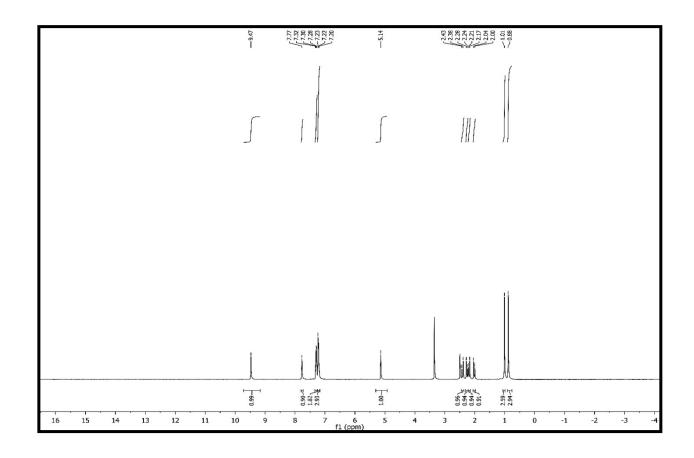
IR: 4-(4-nitro-phenyl)-7,7-dimethyl-4,6,7,8-tetrahydro -1H,3H-quinazoline-2,5-dione (4e):



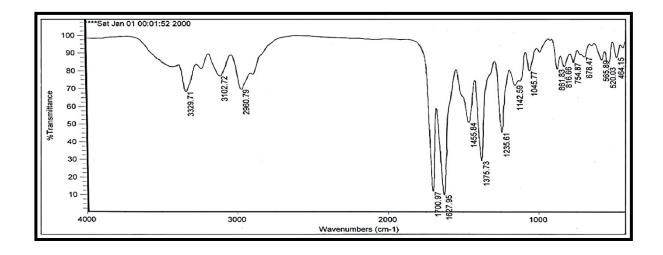


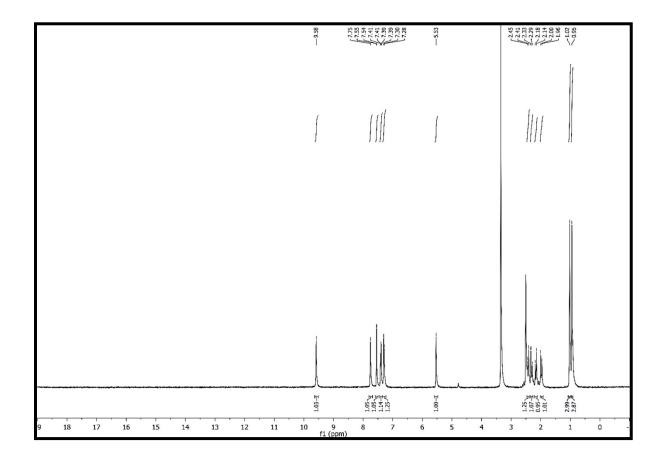
IR: 4-(phenyl)-7,7-dimethyl-4,6,7,8-tetrahydro -1H,3H-quinazoline-2,5-dione (4f):



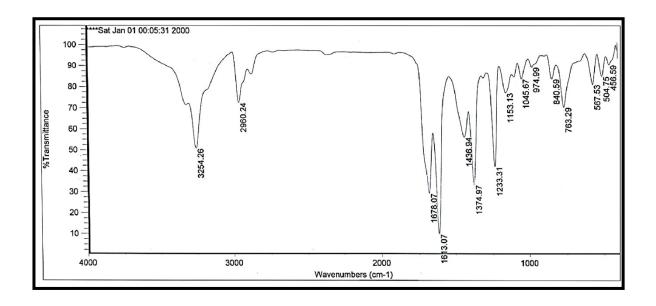


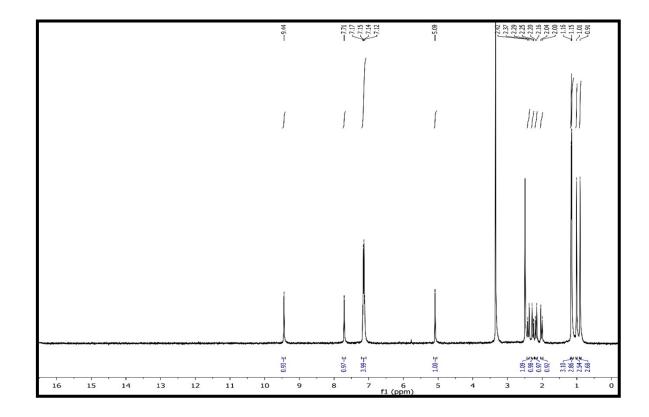
IR: 4-(2,4-dichloro-phenyl)-7,7-dimethyl-4,6,7,8-tetrahydro -1H,3H-quinazoline-2,5-dione (4g):



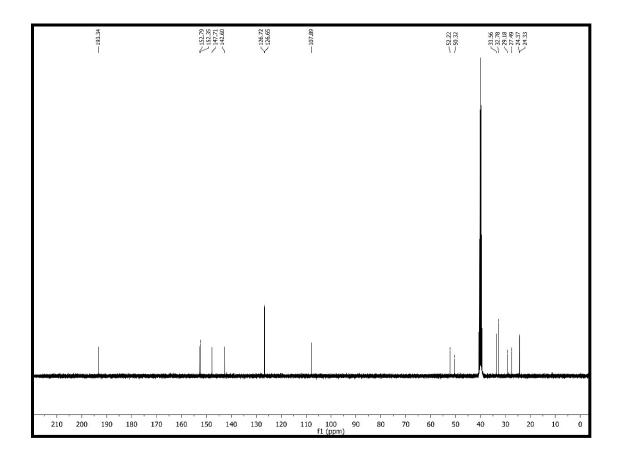


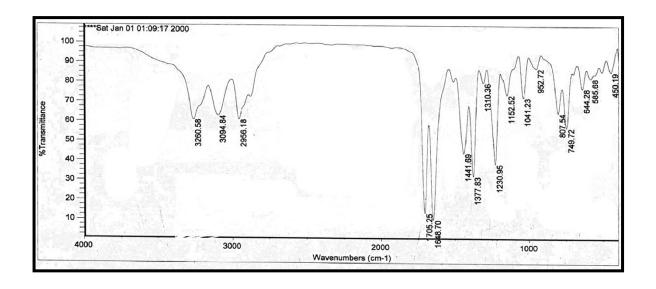
IR: 4-(4-isopropyl-phenyl)-7,7-dimethyl-4,6,7,8-tetrahydro -1H,3H-quinazoline-2,5-dione (4h):



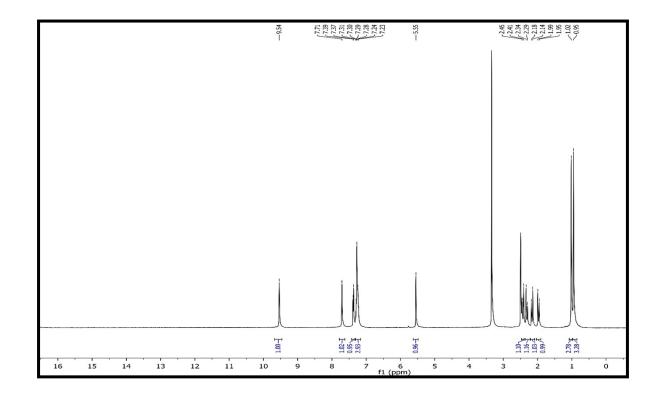


<sup>13</sup>C NMR: 4-(4-isopropyl-phenyl)-7,7-dimethyl-4,6,7,8-tetrahydro -1H,3H-quinazoline-2,5-dione (**4h**):

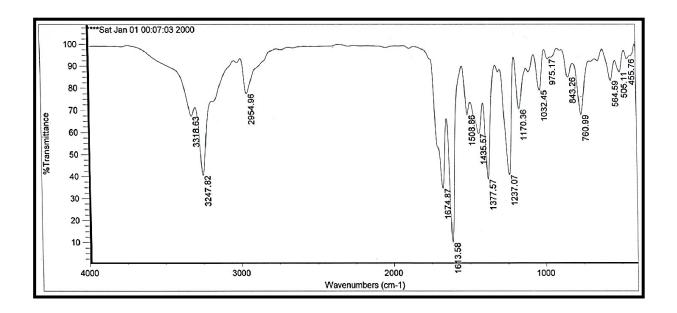


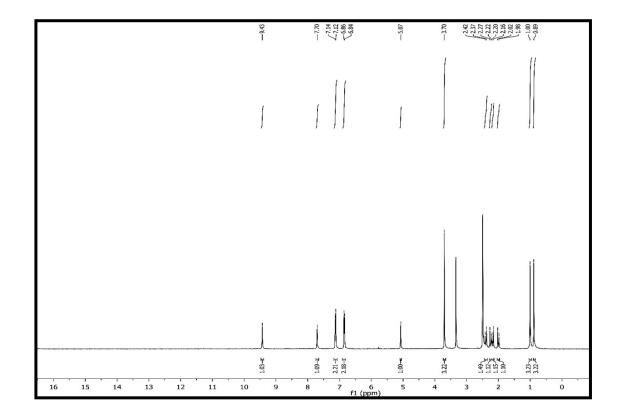


H NMR: 4-(2-chloro-phenyl)-7,7-dimethyl-4,6,7,8-tetrahydro -1H,3H-quinazoline-2,5-dione (4i):

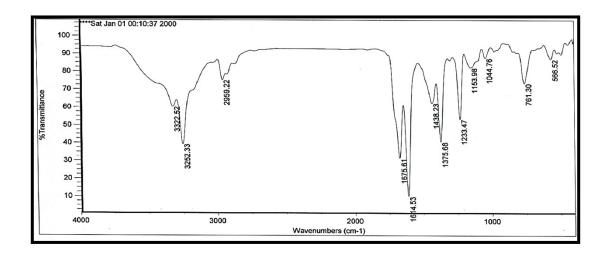


IR: 4-(4-Methoxy-phenyl)-7,7-dimethyl-4,6,7,8-tetrahydro -1H,3H-quinazoline-2,5-dione (4j):

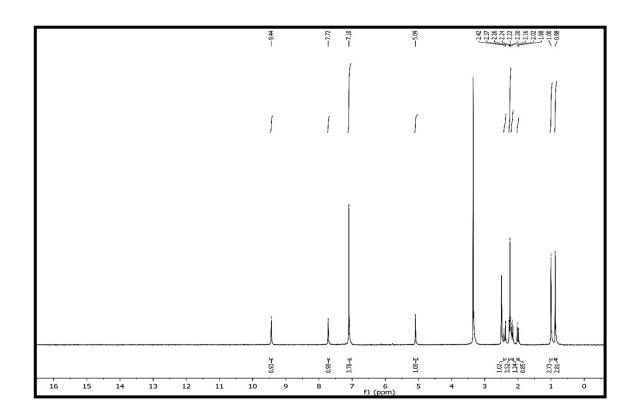




IR: 4-(4-Methyl-phenyl)-7,7-dimethyl-4,6,7,8-tetrahydro -1H,3H-quinazoline-2,5-dione (4k):



H NMR: 4-(4-Methyl-phenyl)-7,7-dimethyl-4,6,7,8-tetrahydro -1H,3H-quinazoline-2,5-dione (4k):



IR: 4-(3-chloro-phenyl)-7,7-dimethyl-4,6,7,8-tetrahydro -1H,3H-quinazoline-2,5-dione (4I):

