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Title

Syntehsis of Silver Deposition Carbon Composite for Electromagnetic Interference Shielding

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Abstract (300 Words)

Electromagnetic waves are of great importance. These waves includes radio, microwaves, infra-red, visible light, optical, ultra-violet, X-rays and gamma rays have many applications in our daily life, like microwave oven, radio, radar and X-ray machine etc. Electromagnetic waves have great impact on the whole world. Beside their attractive applications and intensity properties, these waves have some limitations and drawbacks which can put challenges in the progress and developments of technologies. In order to overcome these problems shielding effects introduced. Many materials used for electromagnetic interference shielding purposes are plastic, polymers compounds, fiber compounds, MXene aerogel, cellulosic compounds, wood polyvinyl chloride (WP)/ graphene Nano-platelets (GNP) Nano-compounds, ordinary wood, Ti_3C_2Tx (MXene), copper-nickel (Cu-Ni). These are used for electromagnetic interference. Here in this study we used silver doped wood derived carbon composite. Silver doped wood derived carbon composites having many properties than other materials used for electromagnetic interference shielding. The stiff, highly aligned electromagnetic interference shielding materials can be made. Silver is good choice for shielding effectiveness purposes. They are light weight, easily available, low cost, highly flame retardant material. Here in this study XRD pattern is indexed according to JCPDS card no. 04-0783 of Cubic silver. SEM result shows nano rods. By testing shielding effectiveness of newly fabricated material in high frequency high frequency range between 8.5 & 12.5 GHz in X band shows effectiveness 38.3 & 41.3 dB. In addition to these properties the newly prepared material was thermally stable and mechanically strong.

Recent Publications

1. Controlled Synthesis of 2D $NiFe_2O_4$ modified g-C_3N_4 NSs for an efficient visible-light Z-scheme photocatalyst for organic pollutants degradation. Wajid Ali[a,b]*, Fawad Ali[a], Zaheen Ullah Khan[c], Muhammad Zaka Ansar[a], Naveed Ali Zafar[d], Azam Khan[a], Amir Zad[a*,e], Shoaib Anwar[f], M. S. Awan[g], Pow Seng Yap[*,h].(Under Review)
2. A Review on Synthesis of Silver Deposit Carbon Composite for Electromagnetic Interference Shielding.Fawad Ali[a], Muhammad Zaka Ansar[a], Wajid Ali[a], Fida Rehman[c]. (Under Process of completion)

Biography (100 Words)

I am Fawad Ali, born on 04 april 1994, is a dedicated and driven student hailing from Pakistan. From an early age, I demonstrated a keen intellect and a passion for reading books and novels.

I spent my formative years in Mardan, Pakistan where I attended [mention school. This period laid the foundation for my academic journey

I pursued my education at Oriental Public School, Known for exceptional dedication to learning, I excelled in subjects such as Science and later on Physics and Maths.

Throughout my academic journey,I distinguished himself through academic achievements as position in my class. I received recognition for Regular student of my class and awarded by our Principal.

My interests extend beyond Physics. I was particularly passionate about materials Science and new discoveries in them. My aims to do PhD in my major field to achieve my goals ad present them on national and international level institutes. My research interest is Nanomaterials and Photocatalysis. As nanomaterials have many applications in Medical, Aerospace, Health and Energy fields.

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Photograph

