

A Laboratory Analog For Carbonaceous Material in the Interstellar Medium

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The properties of Quenched Carbonaceous Composite (QCC) are reviewed. This material is produced from a hydrocarbon plasma. QCC has a strong 220 nm absorption band, visible fluorescence, and infrared absorption bands that closely match the 217 nm absorption band seen in the interstellar medium, the extended red emission seen in reflection nebulae, and the infrared emission bands seen in reflection nebulae, HII regions, and planetary nebulae. This makes QCC a strong candidate as a laboratory analog to the carbonaceous material in the interstellar medium.