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context and may include elements, such as silicon or boron, which are not metallic but are considered to be metalloids. Almost all branches of chemistry and material science now interface with organometallic chemistry. Organometallics find

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practical uses in stoichiometric and catalytic processes, especially processes involving carbon monoxide and alkene-derived polymers. Organometallic (OM) chemistry is the study of compounds containing, and reactions involving,

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of the M-C bond, bonds between metals and the other common elements of organic chemistry also appear in OM chemistry: metal-nitrogen, metal-oxygen, metal-halogen, and even metal-hydrogen bonds all play a role. Metals cover a

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vast swath of the periodic table and include the alkali metals (group 1), alkali earth metals (group 2), transition metals (groups 3-12), the main group metals (groups 13-15, "e;under the stairs"e;), and the lanthanides and actinides. The

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