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Recent Trends of Corrosion Inhibition for Steel Alloys in Different Media

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Corrosion control of metals is of technical, economical, environmental, and aesthetical importance. The use of inhibitors is one of the best options of protecting metals and alloys against corrosion. There are intensive efforts underway to develop new corrosion inhibitors for steel in different medium. The environmental toxicity of organic corrosion inhibitors has prompted the search for new corrosion inhibitors which are biodegradable; inexpensive, readily available and renewable. In recent years expired drugs, modified Plastic waste, and Nano composite show real promise. The present review consciously restricts mainly to new trends as corrosion inhibitors for steel in different media.

Biography:

Reda Abdel Hameed graduated with a degree in chemistry from Al-Azhar University, Cairo, Egypt. He has carried out research projects in applied organic chemistry, physical chemistry, and green chemistry. He has more than 20 years of teaching experience as a lecturer and associate professor in Egypt and the KSA. Reda has more than 43 research papers in various national and international journals. He is currently working as an associate professor of applied Physical Chemistry at Al-Azhar University.