

| | |
|-------------------------|--|
| 1. Record Nr. | UNINA9910731598503321 |
| Titolo | Grafted biopolymers as corrosion inhibitors : safety, sustainability, and efficiency // edited by Jeenat Aslam, Chandrabhan Verma, and Ruby Aslam |
| Pubbl/distr/stampa | Hoboken, NJ : , : John Wiley & Sons, Inc., , [2023] ©2023 |
| ISBN | 1-119-88139-0 1-119-88137-4 |
| Descrizione fisica | 1 online resource (496 pages) |
| Collana | Wiley series in corrosion |
| Soggetti | Biopolymers Corrosion and anti-corrosives |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Note generali | Includes index. |
| Nota di contenuto | Intro -- Grafted Biopolymers as Corrosion Inhibitors -- Contents -- About the Editors -- List of Contributors -- Preface -- Part 1 Economic and Legal Issue of Corrosion -- 1 Corrosion: Basics, Economic Adverse Effects, and its Mitigation -- 2 Corrosion Inhibition: Past and Present Developments and Future Directions -- 3 Biopolymers as Corrosion Inhibitors: Relative Inhibition Potential of Biopolymers and Grafted Biopolymers -- 4 Biopolymers vs. Grafted Biopolymers: Challenges and Opportunities -- Part 2 Overview of Sustainable Grafted Biopolymers -- 5 Sustainable Grafted Biopolymers: Synthesis and Characterizations -- 6 Sustainable Grafted Biopolymers: Properties and Applications -- 7 Factors Affecting Biopolymers Grafting -- Part 3 Sustainable Grafted Biopolymers as Corrosion Inhibitors -- 8 Corrosion Inhibitors: Introduction, Classification and Selection Criteria -- 9 Methods of Corrosion Measurement: Chemical, Electrochemical, Surface, and Computational -- 10 Experimental and Computational Methods of Corrosion Assessment: Recent Updates on Concluding Remarks -- 11 Grafted Natural Gums Used as Sustainable Corrosion Inhibitors -- 12 Grafted Pectin as Sustainable Corrosion Inhibitors -- 13 Grafted Chitosan as Sustainable Corrosion Inhibitors -- 14 Grafted Starch Used as Sustainable Corrosion Inhibitors -- 15 Grafted Cellulose as |

Sustainable Corrosion Inhibitors -- 16 Sodium Alginate: Grafted Alginates as Sustainable Corrosion Inhibitors -- 17 Grafted Dextrin as a Corrosion Inhibitor -- 18 Grafted Biopolymer Composites and Nanocomposites as Sustainable Corrosion Inhibitors -- 19 Industrially Useful Corrosion Inhibitors: Grafted Biopolymers as Ideal Substitutes -- Index -- EULA.
