

1. Record Nr.	UNISA996198770203316
Autore	Bartling Sönke
Titolo	Opening Science [[electronic resource] ] : The Evolving Guide on How the Internet is Changing Research, Collaboration and Scholarly Publishing // edited by Sönke Bartling, Sascha Friesike
Pubbl/distr/stampa	Cham, : Springer Nature, 2014 Cham : , : Springer International Publishing : , : Imprint : Springer, , 2014
ISBN	3-319-00026-8
Edizione	[1st ed. 2014.]
Descrizione fisica	1 online resource (325 pages) : illustrations
Disciplina	004.6780245
Soggetti	Engineering—Vocational guidance Computers and civilization Communication Job Careers in Science and Engineering Computers and Society Communication Studies
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references at the end of each chapters.
Nota di contenuto	Towards Another Scientific Revolution -- Open Science: One Term, Five Schools of Thought -- Excellence by Nonsense: The Competition for Publications in Modern Science -- Science Caught Flat-footed: How Academia Struggles with Open Science Communication -- Open Science and the Three Cultures: Expanding Open Science to All Domains of Knowledge Creation -- (Micro)blogging Science? Notes on Potentials and Constraints of New Forms of Scholarly Communication -- Academia Goes Facebook? The Potential of Social Network Sites in the Scholarly Realm -- Reference Management -- Open Access: A State of the Art -- Novel Scholarly Journal Concepts -- The Public Knowledge Project: Open Source Tools for Open Access to Scholarly Communication -- Altmetrics and Other Novel Measures for Scientific Impact -- Dynamic Publication Formats and Collaborative Authoring -- Open Research Data -- Intellectual Property and Computational Science -- Research Funding in Science 2.0 -- Open Innovation and

Crowdsourcing in the Sciences -- The Social Factor in Open Science -- Case: Creative Commons -- Case: Collaborative Authoring using Google Documents and Cloud Software -- Case: Unique Identity for a Researcher -- Case: Challenges in Open Data in Medical Research -- Case: On the Sociology of Science 2.0 -- Case: How This Book Was Created Using Collaborative Text Editing -- Case: History 2.0 -- Case: Making Data Citeable: Datacite.

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## Sommario/riassunto

Modern information and communication technologies, together with a cultural upheaval within the research community, have profoundly changed research in nearly every aspect. Ranging from sharing and discussing ideas in social networks for scientists to new collaborative environments and novel publication formats, knowledge creation and dissemination as we know it is experiencing a vigorous shift towards increased transparency, collaboration and accessibility. Many assume that research workflows will change more in the next 20 years than they have in the last 200. This book provides researchers, decision makers, and other scientific stakeholders with a snapshot of the basics, the tools, and the underlying visions that drive the current scientific (r) evolution, often called 'Open Science.'

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2. Record Nr.	UNINA9910963019603321
Titolo	Polystyrene : properties, performance, and applications // James E. Gray, editor
Pubbl/distr/stampa	Hauppauge, NY, : Nova Science Publishers, c2011
ISBN	1-61942-484-3
Edizione	[1st ed.]
Descrizione fisica	1 online resource (200 p.)
Collana	Materials science and technology
Altri autori (Persone)	GrayJames E <1960-> (James Ehren)
Disciplina	668.4/233
Soggetti	Polystyrene Thermoplastics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	<p>""POLYSTYRENE: PROPERTIES, PERFORMANCE AND APPLICATIONS "";</p> <p>""POLYSTYRENE: PROPERTIES, PERFORMANCE AND APPLICATIONS "";</p> <p>""CONTENTS ""; ""PREFACE ""; ""POLYSTYRENE TRIBOLOGICAL PERFORMANCE: PROGRESS IN THE UNDERSTANDING OF POLYMERS ATTRITION DURING CHEMICAL ENGINEERING PROCESSES "";</p> <p>""ABSTRACT ""; ""1. INTRODUCTION ""; ""2. EXPERIMENTAL METHODS "";</p> <p>""2.1. Description of Attrition Device ""; ""2.2. Specimen Preparation "";</p> <p>""2.3. Contact Angles Measurements and Surface Free Energy ""; ""2.4. Atomic Force Microscopy Examinations ""; ""2.5. Infrared Spectroscopy Measurements ""</p> <p>""2.6. Differential Scanning Calorimetry Measurements """"2.7. Rheological Measurements ""; ""2.8. Gel-Permeation Chromatography (GPC) Measurements ""; ""3. RESULTS AND DISCUSSION ""; ""3.1. Discussion of Rubbing Results ""; ""3.2. Discussion of Attrition Results ""; ""Applied Normal Force Effect ""; ""Hemispheres Velocity Effect ""; ""Polymer Molecular Weight Effect ""; ""3.3. Discussion of Adhesion and Rubbing at the Nanometric Scale ""; ""CONCLUSION"";</p> <p>""ACKNOWLEDGMENT""; ""REFERENCES ""</p> <p>""BIODEGRADABILITY OF POLYSTYRENE THAT CONTAINS N-BENZYL-4-VINYLPYRIDINIUM CHLORIDE IN THE MAIN CHAIN """"ABSTRACT "";</p> <p>""INTRODUCTION ""; ""INDISPENSABLE QUALITY REQUIRED FOR BIODEGRADABLE POLYMER ""; ""Quality Required for Excellent Biodegradability""; ""Quality Required for Test Microbes in Charges of</p>

Biodegradation"; "DURABILITY AND BIODEGRADABILITY OF SYNTHETIC POLYMER"; "PRINCIPAL CONTRIBUTION OF N-BENZYL-4-VINYLPYRIDINIUM CHLORIDE TO BIODEGRADATION OF THE MODIFIED POLYSTYRENE"; "Extraordinarily Strong Biodegradability"; "Powerful Stimulation of Microbes to Degrade the Connected Portion"; "Highly Nutritive Worth for Microbes in Charges of Biodegradation"; "Proliferation of Bacteria on the Surface of Cross-Linked PBVP(Br)"; "Violent Digestion of Cross-Linked PBVP(Br) by Activated Sludge"; "Strong Bactericidal Activity of Not-Cross-Linked PBVP(Br)"; "Strong Affinity with Microbial Cells That Increases Opportunity of Biodegradation"; "Capture of Bacterial Cells by Adhesion on the Surface of Cross-Linked PBVP(Br)"; "Influence of Chemical Structure on the Ability to Capture Bacterial Cells"; "Influence of Electrostatic and Hydrophobic Interactions on the Capture of Bacterial Cells"; "Strong Hydrophilicity That Assists Biodegradation"; "EXPERIMENTAL METHODS"; "Materials"; "Preparation of Copolymers of Styrene with N-Benzyl-4-Vinylpyridinium Chloride"; "Degradation of the Modified Polystyrene by the Treatment with Activated Sludge in Soil"; "DEGRADATION OF THE MODIFIED POLYSTYRENE DURING TREATMENT WITH ACTIVATED SLUDGE IN SOIL"; "Biodegradation of Pst-co-BVP(Cl) In Molar Ratio 1:1"; "Biodegradation of PSt-co-BVP(Cl) in Molar Ratio 2:1"; "Biodegradation of PSt-co-BVP(Cl) in Molar Ratio 3:1"

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## Sommario/riassunto

Polystyrene is a common thermoplastic polymer made from the aromatic monomer styrene with good formability. It is widely used in automotive, electrical and electronic connector systems. This book presents current research in the study of polystyrene, including polystyrene attrition during chemical engineering processes; the biodegradability of polystyrene; the role of adhesion mechanisms of particles on modified polypropylene; direct fluorination of polystyrene; the applications of polystyrene into various sensing platforms; electrospun polystyrene fibres and superhydrophobic surfaces and the synthesis of end-functionalised syndiotactic polystyrene.

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