1. Record Nr. UNINA9910715099303321

Titolo	Critical mission : former administrators address the direction of the EPA : hearing before the Subcommittee on Oversight and Investigations of the Committee on Energy and Commerce, House of Representatives, One Hundred Sixteenth Congress, first session, June 11, 2019
Pubbl/distr/stampa	Washington : , : U.S. Government Publishing Office, , 2020
Descrizione fisica	1 online resource (v, 123 pages) : illustrations
Soggetti	Climate change mitigation - Government policy - United States Climatic changes - Government policy - United States Climatic changes - Health aspects - United States Greenhouse gas mitigation - Government policy - United States Energy policy - United States Global warming - Prevention - Government policy - United States Legislative hearings.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Access ID (govinfo): CHRG-116hhrg40572. "Serial no. 116-42." Redacted.
Nota di bibliografia	Includes bibliographical references.

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Autore	Takahashi Keisuke
Titolo	Materials Informatics and Catalysts Informatics : An Introduction / / by Keisuke Takahashi, Lauren Takahashi
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2024
ISBN	981-9702-17-8
Edizione	[1st ed. 2024.]
Descrizione fisica	1 online resource (301 pages)
Altri autori (Persone)	TakahashiLauren
Disciplina	620.100285
Soggetti	Materials science - Data processing Cheminformatics Catalysis Chemistry - Data processing Graph theory Computational Materials Science Computational Chemistry Graph Theory
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Chapter 1. An Introduction to Materials Informatics and Catalysts Informatics -- Chapter 2. Developing an Informatics Work Environment -- Chapter 3. Programming -- Chapter 4. Programming and Python -- Chapter 5. Data and Materials and Catalysts Informatics -- Chapter 6. Data Visualization -- Chapter 7. Machine Learning -- Chapter 8. Supervised Machine Learning -- Chapter 9. Unsupervised Machine Learning and Beyond Machine Learning.
Sommario/riassunto	This textbook is designed for students and researchers who are interested in materials and catalysts informatics with little to no prior experience in data science or programming languages. Starting with a comprehensive overview of the concept and historical context of materials and catalysts informatics, it serves as a guide for establishing a robust materials informatics environment. This essential resource is designed to teach vital skills and techniques required for conducting informatics-driven research, including the intersection of hardware, software, programming, machine learning within the field of data

science and informatics. Readers will explore fundamental programming techniques, with a specific focus on Python, a versatile and widely-used language in the field. The textbook explores various machine learning techniques, equipping learners with the knowledge to harness the power of data science effectively. The textbook provides Python code examples, demonstrating materials informatics applications, and offers a deeper understanding through real-world case studies using materials and catalysts data. This practical exposure ensures readers are fully prepared to embark on their informatics-driven research endeavors upon completing the textbook. Instructors will also find immense value in this resource, as it consolidates the skills and information required for materials informatics into one comprehensive repository. This streamlines the course development process, significantly reducing the time spent on creating course material. Instructors can leverage this solid foundation to craft engaging and informative lecture content, making the teaching process more efficient and effective. .