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| 1. Record Nr. | UNINA9910298608703321 |
| Autore | Ozkan Sibel A |
| Titolo | Electroanalysis in Biomedical and Pharmaceutical Sciences : Voltammetry, Amperometry, Biosensors, Applications / / by Sibel A. Ozkan, Jean-Michel Kauffmann, Petr Zuman |
| Pubbl/distr/stampa | Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2015 |
| ISBN | 3-662-47138-8 |
| Edizione | [1st ed. 2015.] |
| Descrizione fisica | 1 online resource (358 p.) |
| Collana | Monographs in Electrochemistry, , 1865-1836 |
| Disciplina | 543.0871 |
| Soggetti | Electrochemistry Pharmaceutical technology Pharmacy Analytical chemistry Pharmaceutical Sciences/Technology Analytical Chemistry |
| 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 at the end of each chapters and index. |
| Nota di contenuto | Introduction -- Polarography in Studies of Pharmaceuticals -- Electroanalytical Techniques Most Frequently Used in Drug Analysis -- Solid Electrodes in Drug Analysis -- Screen Printed Electrodes (SPE) for Drug Compounds Determination -- Electrochemical Biosensors for Drug Analysis -- Electrochemical and hyphenated electrochemical detectors in liquid chromatography and flow injection systems for drug compound analysis -- Electroanalytical Methods Validation in Pharmaceutical Analysis and Their Applications -- Applications for Drug Assays. |
| Sommario/riassunto | Through this monograph, the pharmaceutical chemist gets familiar with the possibilities electroanalytical methods offer for validated analyses of drug compounds and pharmaceuticals. The presentation focuses on the techniques most frequently used in practical applications, particularly voltammetry and polarography. The authors present the information in such a way that the reader can judge whether the |

application of such techniques offers advantages for solving a particular analytical problem. Basics of individual electroanalytical techniques are outlined using as simple language as possible, with a minimum of mathematical apparatus. For each electroanalytical technique, the physical and chemical processes as well as the instrumentation are described. The authors also cover procedures for the identification of electroactive groups and the chemical and electrochemical processes involved. Understanding the principles of such processes is essential for finding optimum analytical conditions in the most reliable way. Added to this is the validation of such analytical procedures. A particularly valuable feature of this book are extensive tables listing numerous validated examples of practical applications. Various Indices according to the drug type, the electroactive group, and the type of method as well as a subject and author index are also provided for easy reference.

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| 2. Record Nr. | UNINA9910437940703321 |
| Autore | Harlov Daniel E |
| Titolo | Metasomatism and the chemical transformation of rock : the role of fluids in terrestrial and extraterrestrial processes / / Daniel E. Harlov, Hakon Austrheim |
| Pubbl/distr/stampa | Berlin ; ; Heidleberg, : Springer-Verlag, 2012, c2013 |
| ISBN | 1-283-61186-4 9786613924315 3-642-28394-2 |
| Edizione | [1st ed. 2013.] |
| Descrizione fisica | 1 online resource (804 p.) |
| Collana | Lecture notes in earth system sciences |
| Altri autori (Persone) | AustrheimH (Hakon) |
| Disciplina | 612.799 |
| Soggetti | Metasomatism (Mineralogy) Mineralogy |
| 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 | 1. Metasomatism and the chemical transformation of rock: Rock-mineral-fluid interaction in terrestrial and extraterrestrial environments. -2. The Chemical Composition of Metasomatic Fluids in |

the Crust -- 3. Thermodynamic modeling and thermobarometry of metasomatized rocks -- 4. Structural controls of metasomatism on a regional scale -- 5. Mechanisms of metasomatism and metamorphism on the local mineral scale: The role of dissolution-reprecipitation during mineral re-equilibration. - 6. Geochronology of metasomatic events.-7. Effects of metasomatism on mineral systems and their host rocks: alkali metasomatism, skarns, greisens, tourmalinites, rodingites, black-wall alteration and listevenites -- 8. Metasomatism within the ocean crust -- 9. Metasomatism in subduction zones of subducted oceanic slabs, mantle wedges, and the slab-mantle interface -- 10. Metasomatism during High-Pressure Metamorphism: Eclogites and Blueschist-Facies Rocks -- 11. Prograde, peak and retrograde metamorphic fluids and associated metasomatism in upper amphibolite to granulite facies transition zones -- 12. Mantle Metasomatism -- 13. Mapping the distribution of fluids in the crust and lithospheric mantle utilizing geophysical methods -- 14. A Hydromechanical Model for Lower Crustal Fluid Flow -- 15. Metasomatism in the early solar system: The record from Chondritic meteorites.

Sommario/riassunto

Fluid-aided mass transfer and subsequent mineral re-equilibration are the two defining features of metasomatism and must be present in order for metamorphism to occur. Coupled with igneous and tectonic processes, metasomatism has played a major role in the formation of the Earth's continental and oceanic crust and lithospheric mantle as well as in their evolution and subsequent stabilization. Metasomatic processes can include ore mineralization, metasomatically induced alteration of oceanic lithosphere, mass transport in and alteration of subducted oceanic crust and overlying mantle wedge, which has subsequent implications regarding mass transport, fluid flow, and volatile storage in the lithospheric mantle overall, as well as both regional and localized crustal metamorphism. Metasomatic alteration of accessory minerals such as zircon or monazite can allow for the dating of metasomatic events as well as give additional information regarding the chemistry of the fluids responsible. Lastly present day movement of fluids in both the lithospheric mantle and deep to mid crust can be observed utilizing geophysical resources such as electrical resistivity and seismic data. Such observations help to further clarify the picture of actual metasomatic processes as inferred from basic petrographic, mineralogical, and geochemical data. The goal of this volume is to bring together a diverse group of geologists, each of whose specialities and long range experience regarding one or more aspects of metasomatism during geologic processes, should allow them to contribute to a series of review chapters, which outline the basis of our current understanding of how metasomatism influences and helps to control both the evolution and stability of the crust and lithospheric mantle.
