

The book explores the basic principles, concepts and applications of geochemistry.

Geochemistry is a field of study that uses the tools and principles of chemistry to explain the mechanisms in geologic environments, and often focuses on determining processes that control the abundance and composition of minerals and their distribution in the earth's crust. Geochemistry also plays a vital role in environmental soil and water systems in identifying and modulating environmental problems, and in studying the composition, structure and processes of the earth. Therefore, this book helps in understanding the chemical composition of the earth and its applications. It explores the basic principles, concepts and applications of geochemistry and discusses its beneficial effects, bottlenecks, solutions, and future directions. In addition to case studies, topics such as chemical weathering, impacts on living beings and water, geochemical cycles, oxidation and redox reactions in geochemistry, isotopes, analytical techniques, medicinal, inorganic, marine, atmospheric, and environmental applications are presented.

Audience

This book will be very helpful for geochemists, environmental scientists, chemists, engineers, R&D professionals, as well as graduate students who are working in earth sciences, environmental chemistry and industrial technologies.

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1	Toxic Geogenic Contaminants in Serpentinic Geological Systems: Occurrence, Behavior, Exposure Pathways, and Human Health Risks	1
	<i>Willis Gwenzi</i>	
1.1	Introduction	2
1.2	Serpentinic Geological Systems	4
1.2.1	Nature, Occurrence, and Geochemistry	4
1.2.2	Occurrence and Behavior of Toxic Contaminants	5
1.2.2.1	Chrysotile Asbestos	5
1.2.2.2	Toxic Metals	5
1.2.2.3	Rare Earth Elements	6
1.3	Human Exposure Pathways	7
1.3.1	Occupational Exposure	7
1.3.2	Non-Occupational Exposure Routes	7
1.3.2.1	Inhalation of Contaminated Particulates	7
1.3.2.2	Ingestion of Contaminated Geophagic Earths	8
1.3.2.3	Ingestion of Contaminated Drinking Water	8
1.3.2.4	Ingestion of Contaminated Medicinal Plants	8
1.3.2.5	Ingestion of Contaminated Wild Foods	9
1.4	Human Health Risks and Their Mitigation	10
1.4.1	Health Risks	10
1.4.1.1	Chrysotile Asbestos	10
1.4.1.2	Toxic Metals	11
1.4.1.3	Rare Earth Elements	11
1.4.2	Mitigating Human Exposure and Health Risks	12
1.4.2.1	Risk Analysis	12
1.4.2.2	Risk Evaluation	12
1.4.2.3	Risk Mitigation	13
1.4.2.4	Overview of Mitigation Interventions	13

1.5	Future Perspectives	13
1.6	Conclusions	14
	Acknowledgements	15
	References	15
2	Benefits of Geochemistry and Its Impact on Human Health	23
	<i>Abel Inobeme, Charles Oluwaseun Adetunji, Muhammad Akram, Maliki Munirat, Inamuddin, Umme Laila, S.O. Okonkwo, Saher Islam and Jonathan Inobeme</i>	
2.1	Introduction	24
2.2	General Overview of Geochemistry and Human Health	25
2.2.1	Types of Geochemistry	26
2.2.2	Some Beneficial Effect of Some Mineral With Health Benefits	26
2.2.2.1	Magnesium	27
2.2.2.2	Manganese	27
2.2.2.3	Calcium	27
2.2.2.4	Cobalt	28
2.2.2.5	Copper	28
2.2.2.6	Zinc	29
2.2.2.7	Iron	29
2.2.2.8	Sodium	29
2.2.2.9	Arsenic	30
2.2.2.10	Chlorine	30
2.2.2.11	Iodine	30
2.2.2.12	Potassium	31
2.2.2.13	Fluoride	31
2.2.3	Application of Geochemistry on Human Health	32
2.3	Conclusion and Recommendations	33
	References	34
3	Applications of Geochemistry in Livestock: Health and Nutritional Perspective	37
	<i>Charles Oluwaseun Adetunji, J. Inobeme, Inamuddin, Muhammad Akram, A. Inobeme, Khuram Shahzad, Maliki Munirat, Saher Islam, Noshiza Majeed and S.O. Okonkwo</i>	
3.1	Introduction	38
3.2	General and Global Perspective About Geochemistry in Livestock	39

3.3	Types of Geochemistry and Their Numerous Benefits	41
3.3.1	Analytical Geochemistry	42
3.3.2	Isotope Geochemistry	43
3.3.3	Low Temperature Geochemistry	43
3.3.4	Organic and Petroleum Geochemistry	44
3.4	Application of Geochemistry in Livestock	44
3.5	Geochemistry and Animal Health	44
3.6	General Overview of Geochemistry in Livestock's Merits of Geochemistry/Essential Minerals in Livestocks	45
3.6.1	Specific Examples of Authors That Have Used Essential Minerals in Livestock	47
3.6.2	Livestock in Relation to Geominerals	48
3.6.3	Trace Minerals Parallel Importance in Livestock	48
3.6.4	Heavy Metals Impact Livestock	49
3.7	Conclusion and Recommendations	50
	References	51
4	Application in Geochemistry Toward the Achievement of a Sustainable Agricultural Science	57
	<i>Muhammad Akram, Charles Oluwaseun Adetunji, S.O. Okonkwo, Inamuddin, Umme Laila, J. Inobeme, A. Inobeme, Saher Islam and Maliki Munirat</i>	
4.1	Introduction	58
4.2	General Overview on the Utilization of Geochemistry and Their Wide Application on Agriculture	59
4.2.1	Classification	60
4.2.2	Chemical Composition of Rocks	60
4.2.3	Effect of Some Beneficial Minerals in Agriculture	60
4.2.4	Beneficial Mineral Nutrients That are Crucial to the Development of Plants	62
4.2.4.1	Micronutrients	63
4.3	Role of Geochemistry in Agriculture	65
4.4	Geochemical Effects of Heavy Metals on Crops Health	65
4.5	Conclusion and Recommendations	69
	References	69
5	Geochemistry, Extent of Pollution, and Ecological Impact of Heavy Metal Pollutants in Soil	73
	<i>Abhiroop Chowdhury, Aliya Naz and Diksha Sharma</i>	
5.1	Introduction	74
5.2	Material and Methods	75
5.2.1	Review Process	75

5.2.2	Ecological Risk Index	75
5.3	Toxic Heavy Metal and Their Impact to the Ecosystems	76
5.3.1	Arsenic	76
5.3.2	Cadmium	77
5.3.3	Chromium	78
5.3.4	Copper	78
5.3.5	Lead	79
5.3.6	Nickel	79
5.3.7	Zinc	80
5.4	Metal Pollution in Soil Across the Globe	80
5.5	Ecological and Human Health Risk Impacts of Heavy Metals	85
5.6	Conclusion	87
	References	87
6	Isotope Geochemistry	93
	<i>Praveen Kumar Yadav, Amit Kumar Mauraya, Chinky Kochar, Lakhan Taneja and S. Swarupa Tripathy</i>	
6.1	Introduction	93
6.2	Basic Definitions	94
6.2.1	The Notation	94
6.2.2	The Fractionation Factor	95
6.2.3	Isotope Fractionation	95
6.2.3.1	Kinetic Isotope Fractionation	95
6.2.3.2	Equilibrium Isotope Fractionation	96
6.2.4	Mass Dependent and Independent Fractionations	97
6.3	Application of Traditional Isotopes in Geochemistry	98
6.3.1	Geothermometer	98
6.3.2	Isotopes in Biological System	98
6.3.2.1	Carbon (C)	99
6.3.2.2	Nitrogen (N)	100
6.3.3	Isotopes in Archaeology	100
6.3.4	Isotopes in Fossils and the Earliest Life	101
6.3.5	Isotopes in Hydrothermal and Ore Deposits	101
6.4	Non-Traditional Isotopes in Geochemistry	102
6.4.1	Application in Tracing of Source	102
6.4.2	Application in Process Tracing	103
6.4.3	Biological Cycling	104
6.5	Conclusion	105
	References	105

7	Environmental Geochemistry	111
	<i>Sapna Nehra, Rekha Sharma and Dinesh Kumar</i>	
7.1	Introduction	111
7.2	Overview of the Environmental Geochemistry	112
7.3	Conclusions	120
7.4	Abbreviations	121
	Acknowledgment	121
	References	121
8	Medical Geochemistry	127
	<i>Hosam M. Saleh and Amal I. Hassan</i>	
8.1	Introduction	128
8.2	The Evolution of Geochemistry	129
8.3	This Science has Expanded Considerably to Become Distinct Branches	129
8.3.1	Cosmochemistry	131
8.3.2	The Economic Importance of Geochemistry	131
8.3.3	Analytical Geochemistry	132
8.3.4	Geochemistry of Radioisotopes	132
8.3.5	Medical Geochemistry and Human Health	134
8.3.6	Environmental Health and Safety	137
8.4	Conclusion	142
	References	143
9	Inorganic Geochemistry	149
	<i>Sathasivam Pratheep Kumar, Triveni Rajashekhar Mandlimath and M. Ramesh</i>	
9.1	Introduction	149
9.2	Elements and the Earth	150
9.2.1	Iron	150
9.2.2	Oxygen	151
9.2.3	Silicon	152
9.2.4	Magnesium	152
9.3	Geological Minerals	152
9.3.1	Quartz	152
9.3.2	Feldspar	153
9.3.3	Amphibole	153
9.3.4	Pyroxene	153
9.3.5	Olivine	153
9.3.6	Clay Minerals	153
9.3.7	Kaolinite	154

9.3.8	Bentonite, Montmorillonite, Vermiculite, and Biotite	154
9.4	Characterization Techniques	155
9.4.1	Powder X-Ray Diffraction	155
9.4.2	X-Ray Fluorescence Spectra	156
9.4.3	X-Ray Photoelectron Spectra	156
9.4.4	Electron Probe Micro-Analysis	156
9.4.5	Inductively Coupled Plasma Spectrometry	157
9.4.6	Fourier Transform Infrared Spectroscopy	157
9.4.7	Scanning Electron Microscopy Analysis	158
9.4.8	Energy Dispersive X-Ray Analysis	158
9.5	Conclusion	159
	References	159
10	Introduction and Scope of Geochemistry	161
	<i>Triveni Rajashekhar Mandlimath, Sathasivam Pratheep Kumar and M. Ramesh</i>	
10.1	Introduction	161
10.1.1	Periodic Table and Electronic Configuration	162
10.1.1.1	Periodic Table	162
10.1.1.2	Electronic Configuration	164
10.2	Periodic Properties	164
10.2.1	Ionization Enthalpy	164
10.2.2	Electron Affinity	165
10.2.3	Electro-Negativity	166
10.3	Chemical Bonding	166
10.3.1	Ionic Bond	166
10.3.2	Covalent Bond	166
10.3.3	Metallic Bond	167
10.3.4	Hydrogen Bond	167
10.3.5	Van der Waals Forces	167
10.4	Geochemical Classification and Distribution of Elements	167
10.4.1	Lithophiles	167
10.4.2	Siderophiles	168
10.4.3	Chalcophiles	169
10.4.4	Atmophiles	169
10.4.5	Biophiles	169
10.5	Chemical Composition of the Earth	169
10.6	Classification of Earth's Layers	170
10.6.1	Based on Chemical Composition	170

	10.6.2 Based on Physical Properties	170
10.7	Spheres of the Earth	171
	10.7.1 Geosphere/Lithosphere	171
	10.7.2 Hydrosphere	172
	10.7.3 Biosphere	172
	10.7.4 Atmosphere	172
	10.7.5 Troposphere	173
	10.7.6 Stratosphere	173
	10.7.7 Mesosphere	174
	10.7.8 Thermosphere and Ionosphere	174
	10.7.9 Exosphere	174
10.8	Sub-Disciplines of Geochemistry	175
10.9	Scope of Geochemistry	175
10.10	Conclusion	176
	References	176
Index		179