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Nota di contenuto	Front Cover; Periphyton; Periphyton: Functions and Application in Environmental Remediation; Copyright; Contents; List of Figures; List of Tables; Author's Biography; Preface; REFERENCES; Acknowledgments; Table of Abbreviations; 1 - Periphyton and Its Study Methods ; 1.1 INTRODUCTION; 1.2 DEFINITION OF PERIPHYTON; 1.3 EFFECTS ON WATER ECOLOGY; 1.4 COLONIZATION OF PERIPHYTON; 1.4.1 Phase 1 (Surface Conditioning); 1.4.2 Phase 2 (Primary Colonization); 1.4.3 Phase 3 (Secondary Colonization); 1.4.4 Phase 4 (Tertiary Colonization); 1.5 COMPOSITION OF PERIPHYTON; 1.5.1 Taxonomic Composition 1.5.2 Nutrient Composition1.6 THE TYPES AND STRUCTURE OF PERIPHYTON; 1.6.1 On the Basis of Substrate Type; 1.6.2 On the Basis of Method of Contact With the Substrate; 1.6.3 On the Basis of Photosynthetic Ability; 1.6.4 Periphyton Structure; 1.7 THE DISTRIBUTION OF PERIPHYTON AND ITS ROLE IN ENVIRONMENTS; 1.8 GROWTH AND PRODUCTIVITY; 1.9 THE STUDY METHODS OF PERIPHYTON; 1.9.1 Sample Collection; 1.9.1.1 Natural Substrates; 1.9.1.2 Artificial Substrates; 1.9.2 Analysis of Water; 1.9.3 Determination of Biomass and Productivity; 1.9.4 Taxonomic Analysis; 1.9.4.1 Microscopic Examination 1.9.4.2 Molecular Analysis1.9.4.3 PICT (Pollution-Induced Community Tolerance); 1.9.4.4 Gross Primary Productivity; 1.10 CONCLUSION; REFERENCES; 2 - The Living Environment of Periphyton ; 2.1

INTRODUCTION; 2.2 FACTORS AFFECTING GROWTH OF PERIPHYTIC COMMUNITIES; 2.2.1 Abiotic Factors; 2.2.1.1 Substrates; 2.2.1.2 pH; 2.2.1.3 Light; 2.2.1.4 Flow; 2.2.1.5 Temperature; 2.2.1.6 Nutrients; 2.2.1.7 Sedimentation; 2.2.1.8 Hydrological Regimens; 2.2.1.9 Organic Matter; 2.2.1.10 Disturbances; 2.2.2 Biotic Factors; 2.2.2.1 Parasitism; 2.2.2.2 Predation; 2.2.3 Grazing; 2.2.3.1 Crustaceans and Insects 2.2.3.2 Snails 2.2.3.3 Frogs; 2.2.3.4 Herbivores; 2.2.4 Periphyton Accrual in Streams; 2.3 CONCLUSION; REFERENCES; 3 - Indicators for Monitoring Aquatic Ecosystem ; 3.1 INTRODUCTION; 3.2 ASSESSMENT OF WATER QUALITY; 3.2.1 Diatoms; 3.2.2 Cyanobacteria; 3.2.3 Periphytic Ciliates; 3.2.4 Biofilm; 3.2.5 Biological Indices; 3.3 EFFECTS OF TOXINS; 3.3.1 PICT; 3.3.2 Herbicides and Pesticides; 3.3.3 Metals; 3.4 OCCURRENCE OF NUISANCE ORGANISMS; 3.5 CONCLUSION; REFERENCES; 4 - Water and Wastewater Purification Using Periphyton ; 4.1 INTRODUCTION 4.2 CURRENT BIOLOGICAL WATER AND WASTEWATER TREATMENT METHODS 4.3 POTENTIAL OF PERIPHYTON; 4.3.1 Removal of Heavy Metals; 4.3.2 Removal of Nutrients; 4.3.2.1 Nitrogen and Phosphorus; 4.3.2.2 Sulfate; 4.3.3 Degradation of Organic Matter; 4.3.3.1 Function of Periphyton in Organic Matter Degradation; 4.3.4 Removal of Phenols; 4.3.5 Removal of Quinoline; 4.4 CONJOINT ACTION OF ASSIMILATION, ADSORPTION, AND BIODEGRADATION; 4.5 MECHANISMS RESPONSIBLE FOR CONTAMINANT REMOVAL; 4.6 SUCCESS OF CELL IMMOBILIZATION TECHNOLOGY; 4.7 SAFETY CONSIDERATIONS; 4.8 FUTURE PROSPECTS; 4.9 CONCLUSIONS; REFERENCES 5 - Periphytic Biofilm and Its Functions in Aquatic Nutrient Cycling

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Middle-Income Asia at Risk of a Sustained Growth Slowdown? -- What Is a Sustained Growth Slowdown? -- Are Middle-Income Economies Different? -- What Explains the Likelihood of Getting Trapped? -- Are Middle-Income Asian Economies at Risk of a Sustained Growth Slowdown? -- Can Emerging Asia Get Old before It Gets Rich?.
