

CONTENTS

Editorial

SOME CRUCIAL AREAS IN SCIENCE EDUCATION RESEARCH CORRESPONDING TO THE NEEDS OF THE CONTEMPORARY SOCIETY Miia Rannikmäe	4
--	---

Articles

PRE-SERVICE SCIENCE TEACHERS' PERCEPTIONS AND ATTITUDES ABOUT THE USE OF MODELS Mustafa B. Aktan	7
THE USE OF REALIA VERSUS POWERPOINT PRESENTATIONS ON BOTANY LESSONS Pavol Prokop, Dominika Majerčíková, Zuzana Vyoralová	18
USING THE HISTORY OF SCIENCE TO TEACH SCIENTIFIC INQUIRY Fatma Önen Öztürk	28
META-ANALYSIS ON THE EFFECTIVENESS OF INVENTION EDUCATION IN SOUTH KOREA: CREATIVITY, ATTITUDE, AND TENDENCY FOR PROBLEM SOLVING Hyuksoo Kwon, Eunsang Lee, Dongkuk Lee	48
PROSPECTIVE CHEMISTRY TEACHERS' ABILITIES OF CREATING CONCEPT MAPS: HYDROCARBONS EXAMPLE Necla Dönmez Usta, Neslihan Ültay	58
DEVELOPMENT OF A QUESTIONNAIRE TO MEASURE CO-REGULATED LEARNING STRATEGIES DURING COLLABORATIVE SCIENCE LEARNING Eunice Eyitayo Olakanmi	68
EVALUATING OF PRE-SERVICE SCIENCE TEACHERS' UNDERSTANDING OF GENERAL CHEMISTRY CONCEPTS BY USING TWO TIER DIAGNOSTIC TEST Ayfer Mutlu, Burçin Acar Şeşen	79
COMPARATIVE RESEARCH ON THE UNDERSTANDINGS OF NATURE OF SCIENCE AND SCIENTIFIC INQUIRY BETWEEN SCIENCE TEACHERS FROM SHANGHAI AND CHICAGO Jingying Wang, Ying Zhao	97
IMPROVING STUDENT UNDERSTANDING OF THE CONCEPTS OF WEIGHT AND MASS WITH A COMPUTER SIMULATION Cândida Sarabando, José P. Cravino, Armando A. Soares	109

Information

INFORMATION FOR CONTRIBUTORS	127
PROBLEMS OF PSYCHOLOGY IN THE 21ST CENTURY.	128
QUALITY ISSUES AND INSIGHTS IN THE 21ST CENTURY	129
CALL FOR PAPERS CMC2016	130
SCIENCE AND TECHNOLOGY EDUCATION: ENGAGING THE NEW GENERATION	131

