

CONTENTS

METALURGIA INTERNATIONAL vol. XV (2010), no.2
ISSN 1582-2214

MATERIALS SCIENCE

Petrică VIZUREANU, Cornel SAMOILĂ, Daniel COTFAS,
Socrates KAPLANIS: **THE ACHIEVEMENT OF AN
ALGORITHM FOR THE DESIGN OF A SOLAR
FURNACE**

.....5

Ana VETELEANU, Vasile JIMAN: **RESEARCH
CONSERNING THE INFLUENCE OF PLATING
THROUGH EXPLOSION ON THE MECHANICAL
PROPERTIES OF THE PLATED MATERIALS**

.....15

Bogdan FLOREA, Alexandru CHIRIAC, Gheorghe
FLOREA: **RESEARCHES VIEWING THE
DETERMINATION OF PHYSICAL PROPERTIES OF
MICRO-ALLOYING THE ALUMINIUM ALLOYS**

.....19

Florin CHICHERNEA, Alexandru CHICHERNEA: **VALUE
ANALYSIS - Parth III**

.....22

Ana Maria LAZĂR, Ioan CIOBANU, Denis CHAUMONT,
Yvon LACROUTE, Remy CHASSAGNON, Luminița
ANDRONIC, Marco SACIOTTI: **THE USE OF TiO₂
NANOSTRUCTURES ON THE PHOTOCATALYTIC
DEGRADATION OF METHYLENE BLUE**

.....26

Simona BOICIUC, Constantin GHEORGHIES:
**STRUCTURAL CHANGES IN LASER CLADDING
LAYERS OF POWDER HIGH - SPEED STEEL TYPE
HS6-5-2 - M2 HEATED TO DIFFERENT
TEMPERATURES**

.....30

Dragos PARASCHIV, Doru BARDAC, Daniel HERGHEA,
Valentin LUPU: **NANOSURFACES AND SURFACE
TENSIONS AT GRINDING**

.....36

Horia ISPAS, Maria PETRESCU, Marin MUȘU-COMAN:
**ELECTRON MICROSCOPY STUDY OF SURFACE
TREATED DIAMONDS INSERTED IN POLYMERIC
AND SINTERED TOOLS**

.....46

Horia ISPAS, Maria PETRESCU, Marin MUȘU-COMAN:
**CHEMICALLY TREATED DIAMONDS INSERTED IN
ELECTROPLATED CUTTING TOOLS VIEWED BY
ELECTRON MICROSCOPY**

.....51

Anișoara CORĂBIERU: **TENDENCES IN
MANUFACTURING METALLIC PRODUCTS
WITHIN THE LASTING DEVELOPMENT CONTEXT**

.....55

ECONOMIC RESEARCHES IN METALURGICAL INDUSTRY

Dănuț-Vasile JEMNA, Mircea ASANDULUI: **THE
IMPACT OF DEMOGRAPHIC AGEING ON THE
ECONOMIC DEVELOPMENT IN ROMANIA**

.....61

Livia Loredana BACIU, Nicoleta Ramona BUNDĂ, Iacobuța
ANDREEA, Mircea ASANDULUI: **MOTIVATION AND
PERFORMANCE IN HIGHER EDUCATION
SYSTEMS. THE CASE OF ROMANIAN
UNIVERSITIES**

.....67

ENVIRONMENTAL ISSUES

Ioan MILOSAN: **CLEAN TECHNOLOGY APPLIED TO
REDUCING LOSSES BY RECYCLING MATERIALS
FROM METALLURGICAL INDUSTRY**

.....73

Alina Adriana MINEA: **A STUDY ON DECREASING
GLOBAL ENERGY CONSUMPTION: SOLAR
ENERGY**

.....75