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#### **Novel Nonfluor Corrosion Resistant Coatings Based on Material Resources of Georgia**

Irine Berdzenishvili

*Department of Materials Science, Tbilisi State University, Tbilisi, Georgia*

*Keywords: Glass, enamels, coatings, carbonate manganese ore, chemical resistance, corrosive medium.*

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**2.**

#### **Evaluation of Gestational Age with Fetal Foot Length Using Ultrasonography**

Joevy Chang, Mohamed yousef1

*Department of Obstetrics and Gynecology, University of Toronto, Toronto, Canada*

*Keywords: Gestational Age, Fetal Foot Length, Ultrasound, measurement*

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**3.**

#### **ROLE OF SOME HEAVY METALS IN RHEUMATOID ARTHRITIS**

Muhammad Arshad, Naila Riaz, Razia Bashir, Shafaat Yar Khan & Hafiz Muhammad Tahir

*Department of Biological Sciences, University of Sargodha, Sargodha, Pakistan*

*Keywords: Rheumatoid Arthritis, heavy metals, age, sex*

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#### **In vitro Variation in antibacterial activity plant extracts on *Glaucium elegans* and Saffron (*Crocus sativus* .L) Onios**

Jennifer White, William Chen

*Department of Biology, University of Toronto, Canada*

**Keywords:** *Glaucium elegans, Saffron Onios, Escherichia coli, Staphylococcus aureus, Salmonella enteritidis, Bacillus anthracis, Proteus*

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**5.**

### **Stability: Abstract Roadmap of Software Security**

Kavita Sahu, Rajshree

*Department of Computer Science, Indira Gandhi National Open University, New Delhi, India*

**Keywords:** *software security, security attributes, stability, design phase*

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**6.**

### **Implementation of Two-Dimensional Fast Fourier Transform and vedic Algorithm for Image enhancement using MATLAB**

S.ARUNACHALAM, S.M.KHAIRNAR, B.S.DESALE

*Department of Electronics and Communication Engineering, Government College of Engineering, Nagpur, India*

**Keywords:** *2D FFT, vedic algorithm, Image enhancement, Linear filtering, Urdhva Tiryakbyham sutra.*

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### **UTILIZATION OF CHARCOAL IN THE IRON-ORE SINTERING PROCESS**

Jaroslav Legemza, Róbert Findorák, Mária Fröhlichová

*Department of Metallurgy, Technical University of Košice, Košice, Slovakia*

**Keywords:** *biomass, coke breeze, charcoal, iron-ore sintering process, thermodynamic analysis, laboratory sinter-pot, sinter quality*

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**8.**

### **Can whole-classroom discussions and mathematical communication improve mathematical reasoning ability of high school students?**

Alexander Kim, Benjamin Park, Daniel Rodriguez, Matthew Garcia

*Institute of Mathematics, University of Vienna, Austria*

**Keywords:** *Communication, Whole-class discussion, Mathematical reasoning, Open-ended problems*

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## **Effect of Azotobacter and Pseudomonas bacteria inoculation on wheat yield under field condition**

Elizabeth Moore, Catherine Miller, Rebecca Clark, Victoria Lopez

*Department of Biology, Lund University, Sweden*

*Keywords: Azotobacter, Chemical fertilizers, Inoculation, Pseudomonas, Wheat yield*

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## **Evaluation of varied concentrations of fly ash on growth, productivity and biochemical activities in *Carthamus tinctorious* L. A commercially important crop**

Qurratul, Sumira Jan, Riyazuddin Khan, Mahmooduzzafar, T O Siddiqi

*Department of Environmental Sciences, University of Peshawar, Peshawar, Pakistan*

*Keywords: Fly ash, productivity, Photosynthetic pigments, nitrate reductase (NR) activity, sugar content*

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