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""PREPARATION AND STOICHIOMETRY OF PURE AND FE-DOPED RUTILE
TiO₂ SAMPLES""; ""MORPHOLOGY AND MICROSTRUCTURE BY TEM AND
HRTEM""; ""STRUCTURE ANALYSIS""; ""OPTICAL PROPERTIES OF RUTILE
NANOSTRUCTURES""; ""PHOTOCATALYTIC ACTIVITY OF PURE AND FE-
DOPED RUTILE NANOPARTICLES""; ""CONCLUSIONS"";
""ACKNOWLEDGMENTS""; ""REFERENCES""; ""CHAPTER 4. THE
FABRICATION OF RUTILE NANOPARTICLES AND HOLLOW MICROSPHERES
WITH MESOPOROSITY""; ""ABSTRACT""
""1. THE SYNTHESIS OF RUTILE NANOPARTICLE IN AQUEOUS
SOLUTION""""1.1. Introduction""; ""1.2. Preparation of Rutile
Nanoparticle""; ""1.3. Characterization of Rutile Nanoparticles""; ""1.4.
Formation Mechanism of Rutile Nanocrystal""; ""2. THE
TRANSFORMATION PROCESS FROM ANATASE NANOPARTICLE TO
NANORUTILE DURING CALCINATION""; ""2.1. Introduction""; ""2.2.
Preparation of Nanoanatase""; ""2.3. The Transformation Process from
Anatase to Rutile""; ""2.4. The Rate Competition Determines the Size
Distribution and the Diameter of Anatase Nanoparticles during
Calcinations""
""2.5. The Microstrain Determines the Rates of the Anatase Growth and
the Transformation""""3. THE FABRICATION OF RUTILE HOLLOW
MICROSPHERES WITH MESOPOROSITY""; ""3.1. Introduction""; ""3.2.
Sample Preparation""; ""3.3. XRD""; ""3.4. SEM""; ""3.5. Specific Surface
Area""; ""3.6. UV Absorption""; ""3.7. The Formation of the Hollow
Structure""; ""CONCLUSIONS""; ""REFERENCES""; ""CHAPTER 5. TITANIUM
DIOXIDE UNDER AMBIENT AIR: PREPARATION AND PHOTOCATALYTIC
PROPERTIES OF TiO₂ PRECIPITATED AEROSOLS""; ""ABSTRACT""; ""1.
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Nota di contenuto	-- Security Analytics, Threat Intelligence, Multimedia Forensics. -- Assessing Threats: Security Boundary and Side-channel Attack Detection in the Metaverse. -- EG-SAN: Evolving Graph Self-Attention Networks for Detecting Illicit Activities in Cryptocurrency. -- Auto-TFCE: Automatic Traic Feature Code Extraction Method and Its Application in Cyber Security. -- Improved Federated Learning Model Against Poisoning Attacks by Using Iterative Blockchain Validators. -- ThreatResponder: Dynamic Markov-based Defense Mechanism for

Real-time Cyber Threats. -- Social Media Threat Intelligence: A Framework for Collecting and Categorizing Threat-Related Data. -- A Comprehensive Survey on Basic Safety Message Attacks and Their Detection. -- BGETC: An Encrypted Traic Classification Method Based on BERT and GRU. -- AnGSL: Graph-Based Android Malware Detection Method. -- Attention-Guided Contrastive Masked Autoencoders for Self-supervised Cross-modal Biometric Matching. -- MSP: A Zero-latency Lightweight Website Fingerprinting Defense for Tor Network. -- An IP Anti-Geolocation Method Based on Constructed Landmarks. -- Burst Sequence Based Graph Neural Network for Video Traic Identification. -- KP-WF: Cross-domain Few-shot Website Fingerprinting. -- Generative AI, Emerging Threats. -- Pixel-level Face Correction Task for More Generalized Deepfake Detection. -- Evaluating and Extending Techniques for Fine-Grained Text-Topic Prediction for Digital Forensic Data. -- Driven to Evidence: The Digital Forensic Trail of Vehicles. -- Autonomous Driving System Configuration Defect Detection Method Based on Fuzzing. -- Research on Minimum Receptive Field of Convolutional Neural Networks for Energy Analysis Attack. -- Heaker: Exfiltrating Data from Air-Gapped Computers via Thermal Signals.

Sommario/riassunto

The two-volume set, LNICST 613 and 614, constitutes the refereed post-conference proceedings of the 15th EAI International Conference on Digital Forensics and Cyber Crime, ICDF2C 2024, held in Dubrovnik, Croatia, during October 9–10, 2024. The 40 full papers presented here were carefully selected and reviewed from 90 submissions. These papers have been organized in the following topical sections: Part I- Artificial Intelligence & Security; Multimedia Forensics; Intrusion Detection; Intrusion and Fraud Detection; Large Language Models, Advances in Security and Forensics; Advances in Security and Forensics. Part II- Security Analytics, Threat Intelligence, Multimedia Forensics; Generative AI, Emerging Threats.
