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corrected HRTEM/STEM ""; "3.2. Spectroscopic Characterization"; "3.2.1. X-ray diffraction (XRD)"; "3.2.2. Extended X-ray absorption fine structure spectroscopy (EXAFS)"; "3.2.3. Energy dispersive X-ray spectroscopy (EDS)"; "3.2.4. Electron energy loss spectroscopy (EELS)"; "3.2.5. X-ray photoelectron spectroscopy (XPS)"; "3.2.6. Infrared (IR) spectroscopy"; "3.2.7. Raman spectroscopy"; "3.2.8. Secondary ion mass spectroscopy (SIMS)"; "3.2.9. Optical absorption-emission spectroscopy"; "3.2.10. Mössbauer spectroscopy"; "4. PROPERTIES OF PEROVSKITE NANOPOWDERS"; "4.1. Ferroelectric and Dielectric Properties"; "4.2. Electrical Conductivity"; "4.3. Magnetic Properties"; "4.4. Optical Properties"; "4.5. Multiferroic Properties"; "5. APPLICATIONS OF PEROVSKITE NANOPOWDERS"; "5.1. Electronics"; "5.2. Information Storage Devices"; "5.3. Photonics"; "5.4. Spintronics"; "6. FUTURE OUTLOOK OF PEROVSKITE NANOPOWDERS"; "7. CONCLUSION"; "ACKNOWLEDGMENTS"; "REFERENCES"; "ELECTROCHEMICAL NANOCOATINGS ON TITANIUM FOR BIOMATERIAL APPLICATIONS"; "ABSTRACT"; "1. INTRODUCTION"; "2. TITANIUM-TYPES OF ALLOYS AND USES"; "3. PASSIVE OXIDE LAYER ON TITANIUM ALLOYS"; "4. ADVANTAGES OF USING NANO-CRYSTALLINE COATINGS"; "5. ELECTROCHEMICAL CATHODIC DEPOSITION"; "5.1. Mechanism"; "5.2. Features of Cathodic Calcium Phosphate Coatings"; "5.3. Nucleation and Grain Growth"; "5.4. Nano-Grained Cathodic HA Coatings"; "5.5. In Vitro Tests"; "6. TiO₂ NANOTUBES"
