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1.2. Characteristics of Potentially Attractive Start-up Companies; 2. From a Research Outcome to a Pre-Seed Investment; 3. Some Past Nanotech Commercialization Examples

3.1. Nanoclay-Nylon 6 compounds 3.2. Diffractive coloring in Fibres and Plastics; 4. Concluding Remarks; IN THE FAST LANE OF INNOVATION; 1. Introduction; 2. Innovation, Emerging Technologies and Emerging Industries; 3. The Thirst for Skills; 4. Emerging Industries and Australian Training Packages; 5. Conclusion; Nanoscience Nanotechnology Bio-Nanotechnology; ELECTROCHEMICAL CHARACTERISTICS OF ORDERED MESOPOROUS CARBON AS ELECTRODE MATERIAL IN LI-ION BATTERY; 1. Introduction; 2. Experimental; 2.1. Synthesis of mesoporous carbon CMK-5; 2.2. Electrode preparation and electrochemical tests

3. Results and discussion 3.1. Materials characterization; 3.2. Electrochemical properties; 4. Conclusion; Acknowledgements; References; LIGHT EMISSION FROM SILICON NANOCRYSTALS - SIZE DOES MATTER!; 1. Introduction; 2. Experimental; 3. Results and Discussion; 3.1. Defect Passivation; 3.2. Emission Control; 3.3. Carrier Dynamics; 4. Conclusions; Acknowledgments; References; APPLICATIONS OF PLASMONICS IN MINIATURISED SENSORS; 1. Introduction; 2. Silicon-based Moisture Sensor; 3. Fiber-optic SERS sensors; 4. Conclusion; References

SYNTHESIS AND CHARACTERIZATION OF NEARLY MONODISPERSE CDSE QUANTUM DOTS AT LOWER TEMPERATURE 1. Introduction; 2. Experimental section; 3. Results and Discussion; 3.1 Optical Characterization; 3.2 Influence of the Growth Temperature; 3.3 Structural Characterization; 3.4 Influence of the Ligands; Main References; UNCONVENTIONAL FERROMAGNETISM IN ALL-CARBON CLUSTER-ASSEMBLED NANOFOAM; 1. Cluster-Assembled Carbon Nanofoam; 1.1. Synthesis; 1.2. Characterisation; 1.3. Chemical impurities analysis; 2. Magnetization measurements; 3. Discussion of magnetization data; References

THE APPLICATIONS OF FOCUSED ION BEAM TECHNOLOGY TO NANOSCALE MATERIALS

Sommario/riassunto

The Asia Pacific Nanotechnology Forum (APNF) brings together top scientists, nanotechnology policy-makers, and key people from industry and the world of investment. This book summarizes the highlights of scientific and policy papers presented at the 2nd APNF Annual Conference.