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<th>S. No.</th>
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<td>1</td>
<td>Intelligent leathers for smart functional applications</td>
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<td>Collagen stabilization using functionalized nanoparticles</td>
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<td>Ultrasound assisted efficient and cleaner leather processing</td>
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<td>Molecular PropertyDiagnostic Suite (MPDS)</td>
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<td>5</td>
<td>Preparation, characterization and application of Ice Cool Biomaterials (ICB)</td>
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<td>6</td>
<td>Zero Emission Research Initiatives</td>
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<td>7</td>
<td>Remediation, Eco-restoration and Cleanup of contaminated sites, water sources and ground water in selected polluted clusters</td>
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<td>8</td>
<td>Nano materials and Nano devices for applications in health and diseases</td>
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<td>9</td>
<td>Development of hollow fibre membrane technology for water disinfection and wastewater reclamation</td>
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<td>10</td>
<td>Discovery and Preclinical studies of new bioactive molecules (natural and semi synthetic) &amp; traditional preparations</td>
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<td>Design Centre for products</td>
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<td>12</td>
<td>Development and demonstration for better recovery and utilization of fallen animal carcasses</td>
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<td>13</td>
<td>Development of appropriate technology/ Techniques and demonstrations for Improving the rural tanning</td>
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<td>Development / Demonstration of Technologies for strengthening rural footwear sector</td>
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<td>Development of novel leather products based on ethnic designs</td>
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<td>Research Initiatives for Waterless Tanning</td>
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<td>17</td>
<td>Design Innovation for Smart Material Transformation Yeaning Leather Life Style Products (D’STYL)</td>
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<tr>
<td>18</td>
<td>Nano-Materials: Applications and Impact on Safety, Health and Environment</td>
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<td>Centre for Biotherapeutic Molecule discovery</td>
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<td>Genomics and Informatics solutions for Integrating Biology</td>
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<td>21</td>
<td>Membrane and Adsorbent Technology Platform for Effective Separation of Gases and Liquids</td>
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<td>22</td>
<td>Development of Sustainable Waste Management Technologies for Chemical and Allied Industries</td>
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<td>23</td>
<td>Biomass to Energy (Bio Energy from Algae grown by Carbon Sequestration and Treatment of Industrial Wastewaters)</td>
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<td>24</td>
<td>Innovate, Develop and Up-scale MAGIC (modular, agile, intensified &amp; continuous) processes and plants</td>
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<td>Encapsulated Microorganisms for Environmental Protection</td>
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<td>26</td>
<td>A Multi-Scale Simulation and Modeling Approach to Designing Smart Functional Materials for use in Energy, Electrochemistry and Bio-mimetics</td>
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<td>Utilization of Separated Lignin for Value Addition</td>
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<td>28</td>
<td>Rare Earth Pigments</td>
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<td>29</td>
<td>Collagen and Collagen-Peptide based Biomaterials for Tissue Engineering Applications</td>
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<td>Advanced Drug Delivery</td>
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<td>31</td>
<td>Development and Application of Technologies for Sustainable Transportation</td>
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<td>32</td>
<td>Integrated NextGen approaches in health, disease and environmental toxicity (INDEPTH)</td>
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<tr>
<td>33</td>
<td>Science and Technology Revolution in Leather with a Green Touch</td>
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<td>Zero Emission Research Initiative for Solid Wastes from Leather</td>
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<td>35</td>
<td>Demonstration of Waterless Chrome Tanning Technology</td>
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<td>36</td>
<td>Cloning over expression of protease and optimizing the ideal condition to improve the productivity</td>
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<td>37</td>
<td>Development of Bio-compatible composites from industrial waste for their applications in water quality management</td>
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<td>Preparation of dog chew/pet treats using sulfide free fleshing/trimmings</td>
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<td>Preparation of pharmaceutical grade gelatin from raw trimmings</td>
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<td>Preparation of compost from hair waste of tanneries</td>
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<td>CSIR Knowledge Gateway and Open Source Private Cloud Infrastructure (KNOWGATE)</td>
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<td>42</td>
<td>Novel approaches for solar energy conversion (TAPSUN)</td>
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<td>43</td>
<td>Efficient silicon photovoltaics with smart electronics and lighting systems</td>
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<td>Improving livelihood of People below the poverty line by Augmenting Income and quality of lives in Cuddalore District of Tamil Nadu (IMPACT)</td>
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<td>45</td>
<td>Facility Creation of Pilot Plants and Business Incubation centre at CSIR-CLRI</td>
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<td>Waterless chrome tanning</td>
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<td>47</td>
<td>High grade Gelatin and protein hydrolysate trimmings</td>
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<td>Zero wastewater Discharge technology</td>
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<td>Cocktail of Carbohydrases for rapid fiber opening</td>
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<td>Retanning cum Fatliquoring Agent</td>
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<td>Retanning agent from Paper Industry Wastes</td>
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<td>52</td>
<td>Treatment of domestic sewage with emphasis to reuse of treated water for agricultural/ industrial/ other applications with minimum consumption of energy and minimum generation of sludge</td>
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<td>Waterless Chrome Tanning Technology</td>
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<td>Polymer Filaments for 3D Printing</td>
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<tr>
<td>55</td>
<td>2013-2014</td>
<td>Development of surface modified activated carbon nanoparticles from renewable resources and its application</td>
<td>Department of Science &amp; Technology (DST) Technology Bhavan New Mehrauli Road New Delhi – 110 016</td>
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<td>56</td>
<td>2013-2014</td>
<td>Development of Ankle-Foot Orthosis (AFO) for pressure off loading using advanced technologies.</td>
<td>Department of Science &amp; Technology (DST) Technology Bhavan New Mehrauli Road New Delhi – 110 016</td>
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<td>57</td>
<td>2013-2014</td>
<td>Studies on Graphene based materials and it’s Application</td>
<td>Department of Science &amp; Technology (DST) Technology Bhavan New Mehrauli Road New Delhi – 110 016</td>
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<td>58</td>
<td>2013-2014</td>
<td>Generation of non woven materials from tannery solid waste</td>
<td>Science &amp; Engineering Research Board (SERB), DST, Technology Bhavan, New Delhi</td>
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<td>59</td>
<td>2013-2014</td>
<td>Sequential Chemical and Enzyme Assisted Biological Treatment Process for Tannin containing waste water generated from tanneries.</td>
<td>Dept of Bio-Technology, New Delhi</td>
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<td>60</td>
<td>2013-2014</td>
<td>Post Audit and Performance Evaluation of the Bio-methanation plant - Phase I, Design, Commission, execution, Purification and bottling of bio gas plant for municipal organic solid waste training programme to municipal/Corporation Engineers/ Sanitary officers - Phase II</td>
<td>Commissioner of Municipal Administration, Chennai</td>
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<td>62</td>
<td>2013-2014</td>
<td>Design and Development of a Novel Dermal Regenerative Bio-Material from Puffer Fish</td>
<td>Department of Science &amp; Technology (DST) Technology Bhavan New Mehrauli Road New Delhi – 110 016</td>
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<td>No.</td>
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<td>63</td>
<td>2013-14</td>
<td>Studies on the Interaction of Gold Nanoclusters with Biomolecules (INSPIRE FELLOWSHIP) 1F 130904</td>
<td>Department of Science &amp; Technology (DST) Technology Bhavan New Mehrauli Road New Delhi – 110 016</td>
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<td>64</td>
<td>2013-14</td>
<td>Synthesis, characterization and biological application of nanocomposite materials</td>
<td>Department of Science &amp; Technology (DST) Technology Bhavan New Mehrauli Road New Delhi – 110 016</td>
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<td>65</td>
<td>2011-12</td>
<td>Synthesis, Characterization and Application Studies on Upconversion Nanoparticles- An Indo-Mexican Joint Research Project</td>
<td>Department of Science &amp; Technology (DST) Technology Bhavan New Mehrauli Road New Delhi – 110 016</td>
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<td>66</td>
<td>2012-13</td>
<td>A green Chemistry approach for the synthesis of luminescent rare earth doped Nanocrystals and their application studies</td>
<td>Department of Science &amp; Technology (DST) Technology Bhavan New Mehrauli Road New Delhi – 110 016</td>
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<tr>
<td>67</td>
<td>2013-14</td>
<td>Development of Ankle foot orthosis (AFO) for pressure offloading using advanced technologies</td>
<td>Department of Science &amp; Technology (DST) Technology Bhavan New Mehrauli Road New Delhi – 110 016</td>
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<tr>
<td>68</td>
<td>2012-13</td>
<td>Solvent-free Synthesis of Functionalised pyridine&amp; ondol-3Y 1 pyridine derivatives using cyclic diketones &amp; 3-cyanoacetyl indole &amp; their anti-bacterial &amp; anti-cancer activity evaluation (Under Women Scientist Scheme A - WOS-A Project)</td>
<td>Department of Science &amp; Technology (DST) Technology Bhavan New Mehrauli Road New Delhi – 110 016</td>
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<tr>
<td>69</td>
<td>2012-13</td>
<td>STUDIES ON BIO-NAN MATERIAL AND THEIR CHARACTERIZATION (AORC-NSPIRE Programme)</td>
<td>Department of Science &amp; Technology (DST) Technology Bhavan New Mehrauli Road New Delhi – 110 016</td>
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<tr>
<td>70</td>
<td>2012-13</td>
<td>Hybrid Biomaterials from collagenous wastes Encompassing Natural Exudates and Peptide growth Factors</td>
<td>Science &amp; Engineering Research Board (SERB), DST, Technology Bhavan, New Delhi</td>
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<td>71</td>
<td>2012-13</td>
<td>Synthesis of Novel Fatliquors by Gemini surfactants for making better leather</td>
<td>Science &amp; Engineering Research Board (SERB), DST, Technology Bhavan, New Delhi</td>
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Note: The projects are listed in the order of their occurrence.
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<th>No.</th>
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<tr>
<td>72</td>
<td>Genetic Manipulation and cfd based mixing optimization of bio-hydrogen and methane recovery processes from tannery effluents using anaerobic membrane bioreactor</td>
<td>Department of Science &amp; Technology (DST) Technology Bhavan New Mehrauli Road New Delhi – 110 016</td>
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<tr>
<td>73</td>
<td>Studies on Pore Properties of Hydrogels</td>
<td>Science &amp; Engineering Research Board (SERB), DST, Technology Bhavan, New Delhi</td>
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<td>75</td>
<td>Development and application of clay based adsorbents for effective removal of dye/color from industrial processed streams with special focus on treatment of leather industry waste water.</td>
<td>Science &amp; Engineering Research Board (SERB), DST, Technology Bhavan, New Delhi</td>
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<td>76</td>
<td>Functional models for non-heme enzymes: Generation, Spectral Characterization and reactivity of high spin iron(IV) – Oxo Complexes</td>
<td>Science &amp; Engineering Research Board (SERB), DST, Technology Bhavan, New Delhi</td>
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<td>77</td>
<td>Stability and Aggregation of Silver Nanoparticles in Natural aqueous matrices: Effect of surface capping and environment controls</td>
<td>VIT University, Vellore</td>
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<td>78</td>
<td>Structure, function, dynamics and inhibition of Matrix Metalloproteinases (MMPs)</td>
<td>Biotech Consortium India Limited, department of Bio-Technology New Delhi</td>
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<tr>
<td>79</td>
<td>Metal Free Organic Dyes with multiple donor acceptor groups for dye sensitized solar cells.</td>
<td>Science &amp; Engineering Research Board (SERB), DST, Technology Bhavan, New Delhi</td>
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<td>80</td>
<td>Development of Chemosensors for the detection of toxic metal ions (INSPIRE Fellowship under INSPIRE program for pursuing full-time doctoral (Ph.D) program at CLRI INSPIRE FELLOW IF 120017</td>
<td>Department of Science &amp; Technology (DST) Technology Bhavan New Mehrauli Road New Delhi – 110 016</td>
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<td>81</td>
<td>2012-2013</td>
<td>Microbial production of plastic degrading enzymes for polymer monomerization</td>
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<td>82</td>
<td>2012-2013</td>
<td>Studies on Chemoselective catalytic conversion of glycerol into valuable chemicals through green chemistry (under INSPIRE Fellowship of DST (IF 120409))</td>
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<td>84</td>
<td>2012-2013</td>
<td>Dipolar versus multipolar charge transfer interactions in multiple donor - acceptor molecules: Structure-Property relationship (under INSPIRE Fellowship of DST) (IF 120441)</td>
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<td>85</td>
<td>2012-2013</td>
<td>Supply Chain Management for Rural Leather Sector</td>
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<td>86</td>
<td>2012-2013</td>
<td>Application of Genetics and Molecular Biology to Biogas production (DBT- TWAS Bio-Technology Fellow-Pre Doctoral Fellowship</td>
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<td>87</td>
<td>2012-2013</td>
<td>DBT - CREST Award for the year 2011-12 to Dr.Arumugam Gnanamani, Senior Scientist, Microbiology Division.</td>
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<td>88</td>
<td>2012-2013</td>
<td>Synthesis, Characterization and application of bio-inspired magnetic nanomaterials</td>
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<td>89</td>
<td>2012-2013</td>
<td>Design and Reengineering of Organic Dyes for Solar Cell Application (INSPIRE Faculty Award Scheme )</td>
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<td>90</td>
<td>2012-2013</td>
<td>Bio-mimetic High Valent Oxomanganese (IV/V) Complexes: Generation, Spectroscopic Characterization and Reactivity (INSPIRE Faculty Award Scheme )</td>
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<td>2012-2013</td>
<td>Bio-inspired Magnetic and Noble metal based Hybrids Nanomaterials (MNHs) : Synthesis, Functionalisation and its application to Biomedical and Environmental Bio technology</td>
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<td>93</td>
<td>2012-2013</td>
<td>Studies On Therapeutic Interventions of Angiogenesis using Molecular and Nano Biotechnological approaches (INSPTRE FELLOW IF 120634)</td>
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<td>2011-2012</td>
<td>Studies on the Thermal Hazards of Reactive Red Oil forming Substances in Fuel Reprocessing - AERB, Mumbai</td>
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<td>95</td>
<td>2011-2012</td>
<td>Assured Opportunity For Research Career (AORC) - a component of INSPIRE programme for pursuing fulltime doctoral (PhD) Programme IF 10510/IF 10511 /IF 10534/IF 10558</td>
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<td>96</td>
<td>2011-2012</td>
<td>Scale up of a novel cutinase like enzyme (CLE) for industrial application - DBT</td>
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<td>97</td>
<td>2011-2012</td>
<td>Nanopesticide formulation, characterization and chemo dynamics in rice model ecosystem (A Joint Collaborative Project between CSIR-Central Leather Research Institute, Chennai and Centre for Nanobiotechnology School of Biotechnology, Vellore Institute of Technology, Vellore)</td>
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<td>99</td>
<td>2011-2012</td>
<td>Organized assemblies of peptides and proteins immobilized in nanoporous templates : Designing a tool to study fibrillogenesis</td>
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<td>Ramanujan Fellowship to Dr. V. G. Vaidyanathan - SERB</td>
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<td>Assured Opportunity For Research Career (AORC) - a component of INSPIRE programme for pursuing fulltime doctoral (PhD) Programme at CLRI INSPIRE FELLOWSHIP IF 110493/IF 110414</td>
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<td>102</td>
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<td>Studies on Bio-Nano Material and their characterization (AORC-INSPIRE* Programe) - DST IF 110583</td>
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<td>103</td>
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<td>Synthesis of thermoresponsive Ruthenium Benzylidene metathesis catalysts and their applications in microcrack healing and in catalyst recovery - SERB</td>
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<td>104</td>
<td>2011-2012</td>
<td>Recovery of Value added Products of Medical Importance from the solid wastes of meat industry - MOEF(RE division)</td>
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<td>Classical Molecular Dynamics Simulation and Quantum Chemistry Calculation on Interaction of Nanostructures with Biomacromolecules - BRNS,DAE</td>
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<td>2011-2012</td>
<td>Role of Empelin (Natural Benzoquinone) on Melanogenesis - IADVL-L Oreal Pigmentation Research Grant 2012</td>
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<td>107</td>
<td>2011-2012</td>
<td>Training Programme in Leather Goods / Footwear Manufacture For Rural artisans at various rural clusters in Gujarat under Poverty Alleviation Scheme - GRIMCO</td>
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<td>108</td>
<td>2011-2012</td>
<td>A Green Chemistry approach for the Synthesis of Luminescent rare earth doped Nanocrystals and their application studies (INSPIRE FELLOW IF 110758)</td>
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<td>2010-2011</td>
<td>Metal nano cluster organizes by bio-molecular templating using cubosomes and lyophillisomes</td>
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<td>2010-2011</td>
<td>Identification and Molecular Characterization of Osteoclasts in Type 2 Diabetics subjects</td>
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<td>Synthesis and Physical characterization of Hydroxyapatite Based Scaffolds</td>
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<td>2010-2011</td>
<td>Monitoring and Evaluation of the proposals under ILDP Plan scheme- HRD and support to artisans - 11th Plan period : National Monitoring Unit (NMU)</td>
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<td>114</td>
<td>2010-2011</td>
<td>Chrodrocyte culture on 3D collagen scaffold and their characterization in vivo and in vitro</td>
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<td>115</td>
<td>2010-2011</td>
<td>To conduct &quot;Technology Entrepreneurship Development Programme under DST-NIIMAT project 2010-2011 in 1) Leather goods 2) Leather garments 3) Leather footwear</td>
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<td>116</td>
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<td>Preparation of useful products for leather products industry using leather portion of used shoes / chappals</td>
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<td>117</td>
<td>2010-2011</td>
<td>Characterization of Mechanically Alloyed Yttria Dispersed Martensitic Steel</td>
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<td>118</td>
<td>2010-2011</td>
<td>Design, Synthesis and Evaluation of Antimicrobial Activity of Naturally Occurring Naphthoquinone Analogues</td>
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<td>119</td>
<td>2010-2011</td>
<td>Rare Earth Based Nontoxic Inorganic Blue Pigments For Exterior Coating Applications</td>
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<td>120</td>
<td>2010-2011</td>
<td>Development of New Systematic Methods for The Synthesis of Novel Heterocyclic Compounds Via Cycloaddition Reactions</td>
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<td>121</td>
<td>2010-2011</td>
<td>Training in Leather Goods, Garments, Footwear &amp; Fashion Glove Manufacture&quot; Under Skill Development Training Programme Through Science &amp; Technology (STST)</td>
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<td>122</td>
<td>2010-2011</td>
<td>Remediation of Chromite Ore Processing Residue (COPR) Using Solidification and Stabilization Process</td>
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<td>123</td>
<td>2010-2011</td>
<td>&quot;Environmentally Secure Inorganic Colorants&quot; (A Joint Applied Project under Green Chemistry Initiative Programme between CLRI, Chennai &amp; NIIST, Thiruvananthapuram)</td>
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<td>124</td>
<td>2009-2010</td>
<td>Nano materials for Hydrogen powered mobile applications (HYDROMAP) - under framework of India - European Union Science &amp; Technology Cooperation Agreement</td>
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<td>125</td>
<td>2009-2010</td>
<td>Biologica Liquefaction of Waste Fleshings and Treatment with Tannery Effluent Biogas Generation in Single Reactor - An Applied R &amp; D Project on Waste Minimization Programme of Ministry of Environment and Forests (MOEF) by CLRI, Adyar, Chennai</td>
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<td>126</td>
<td>2009-2010</td>
<td>Preparation of draft concept paper for Special Purpose Vehicle (SPV) for INSPIRE Programme of DST</td>
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<td>127</td>
<td>2009-2010</td>
<td>Small Diameter Blood Vessel by Tissue Engineering - under women scientist scheme</td>
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<td>2009-2010</td>
<td>Structural Studies on Collagen like Peptides: A Molecular Modelling Perspective</td>
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<td>129</td>
<td>2009-2010</td>
<td>Nanostructured Urease Biosensor for Determination of Heavy metal for food safety and environmental monitoring. An Indo -Bulgarian Joint Research Project</td>
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<td>130</td>
<td>2009-2010</td>
<td>Design of Multivariable Control Systems using Relay Feedback Response</td>
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