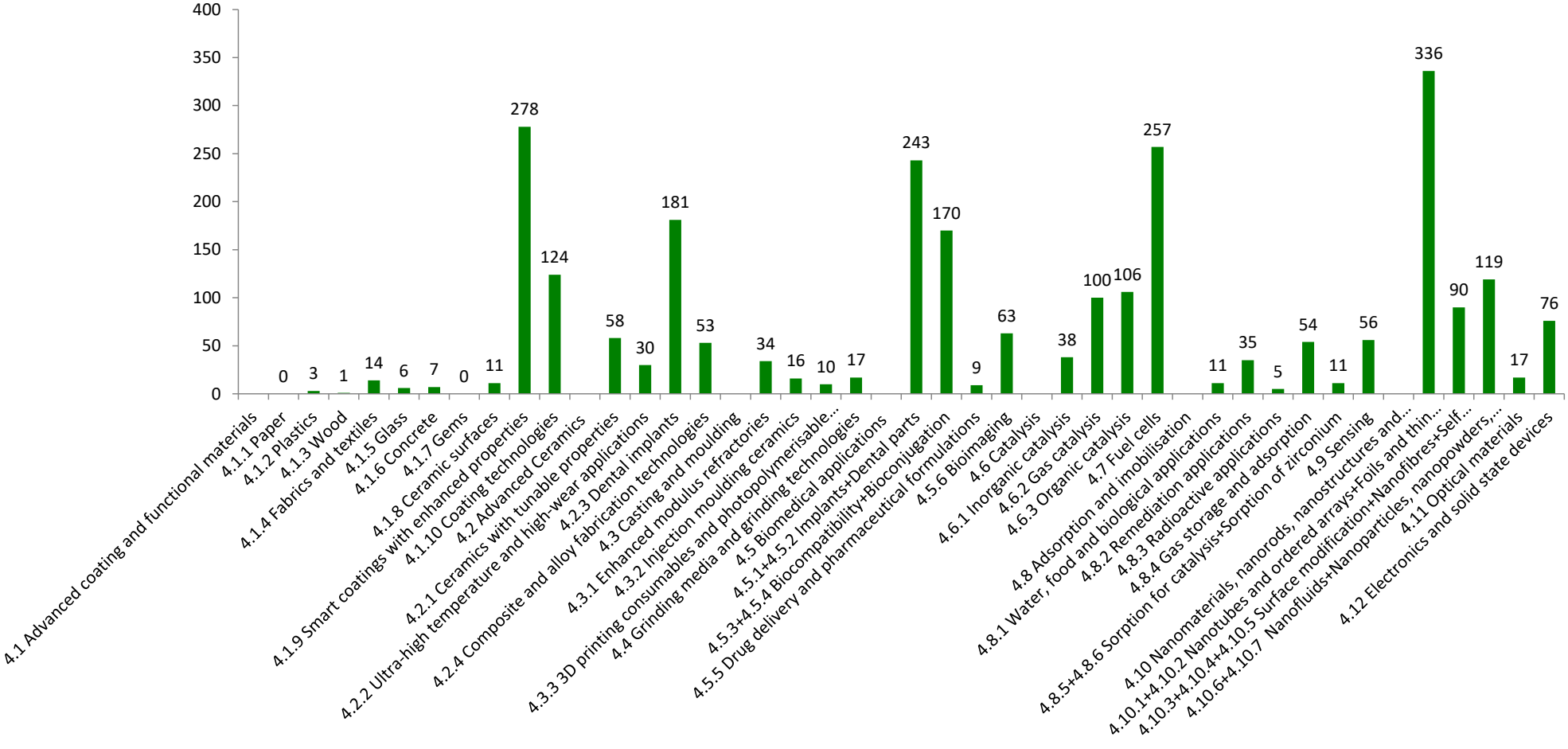
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54
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56
336
90
119
17
76
4.1 Advanced coating and functional materials
4.1.1 Paper
4.1.2 Plastics
4.1.3 Wood
4.1.4 Fabrics and textiles
4.1.5 Glass
4.1.6 Concrete
4.1.7 Gems
4.1.8 Ceramic surfaces
4.1.9 Smart coatings with enhanced properties
4.1.10 Coating technologies
4.2 Advanced Ceramics
4.2.1 Ceramics with tunable properties
4.2.2 Ultra-high temperature and high-wear applications
4.2.3 Dental implants
4.2.4 Composite and alloy fabrication technologies
4.3 Casting and moulding
4.3.1 Enhanced modulus refractories
4.3.2 Injection moulding ceramics
4.3.3 3D printing consumables and photopolymerisable...
4.4 Grinding media and grinding technologies
4.5 Biomedical applications
4.5.1+4.5.2 Implants+Dental parts
4.5.3+4.5.4 Biocompatibility+Bioconjugation
4.5.5 Drug delivery and pharmaceutical formulations
4.5.6 Bioimaging
4.6 Catalysis
4.6.1 Inorganic catalysis
4.6.2 Gas catalysis
4.6.3 Organic catalysis
4.7 Fuel cells
4.8 Adsorption and imobilisation
4.8.1 Water, food and biological applications
4.8.2 Remediation applications
4.8.3 Radioactive applications
4.8.4 Gas storage and adsorption
4.8.5+4.8.6 Sorption for catalysis+Sorption of zirconium
4.9 Sensing
4.10 Nanomaterials, nanorods, nanostructures and...
4.10.1+4.10.2 Nanotubes and ordered arrays+Foils and thin...
4.10.3+4.10.4+4.10.5 Surface modification+Nanofibres+Self...
4.10.6+4.10.7 Nanofluids+Nanoparticles, nanopowders,...
4.11 Optical materials
4.12 Electronics and solid state devices