# Hermann Seitz

List of Publications by Year
in descending order



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|---|---|---|---|
| 125 papers | 4,544 citations | 147566 31 h-index | 106150 65 g-index |
| 129 all docs | 129 docs citations | 129 times ranked | 5936 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | A review on 3D micro-additive manufacturing technologies. International Journal of Advanced Manufacturing Technology, 2013, 67, 1721-1754. | 1.5 | 1,065 |
| 2 | Three-dimensional printing of porous ceramic scaffolds for bone tissue engineering. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2005, 74B, 782-788. | 1.6 | 623 |
| 3 | Hydroxyapatite scaffolds for bone tissue engineering made by 3D printing. Journal of Materials Science: Materials in Medicine, 2005, 16, 1121-1124. | 1.7 | 418 |
| 4 | Biomaterials as Scaffold for Bone Tissue Engineering. European Journal of Trauma and Emergency Surgery, 2006, 32, 114-124. | 0.3 | 164 |
| 5 | In vitro-Osteoclastic Activity Studies on Surfaces of 3D Printed Calcium Phosphate Scaffolds. Journal of Biomaterials Applications, 2011, 26, 359-380. | 1.2 | 128 |
| 6 | Ceramic scaffolds produced by computerâ€assisted 3D printing and sintering: Characterization and biocompatibility investigations. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2010, 93B, 212-217. | 1.6 | 96 |
| 7 | Polymer-Bioactive Glass Composite Filaments for 3D Scaffold Manufacturing by Fused Deposition Modeling: Fabrication and Characterization. Frontiers in Bioengineering and Biotechnology, 2020, 8, 552. | 2.0 | 78 |
| 8 | 3D Printing of Piezoelectric Barium Titanate-Hydroxyapatite Scaffolds with Interconnected Porosity for Bone Tissue Engineering. Materials, 2020, 13, 1773. | 1.3 | 77 |
| 9 | Characterization and evaluation of a PMMAâ€based 3D printing process. Rapid Prototyping Journal, 2013, 19, 37-43. | 1.6 | 72 |
| 10 | Electrically Conductive and 3Dâ€Printable Oxidized Alginateâ€Gelatin Polypyrrole:PSS Hydrogels for Tissue Engineering. Advanced Healthcare Materials, 2021, 10, e2001876. | 3.9 | 70 |
| 11 | Different Calcium Phosphate Granules for 3â€Ð Printing of Bone Tissue Engineering Scaffolds. Advanced Engineering Materials, 2009, 11, B41. | 1.6 | 69 |
| 12 | Comparison of Single Ti6Al4V Struts Made Using Selective Laser Melting and Electron Beam Melting Subject to Part Orientation. Metals, 2017, 7, 91. | 1.0 | 64 |
| 13 | Endocultivation: 3D printed customized porous scaffolds for heterotopic bone induction. Oral Oncology, 2009, 45, e181-e188. | 0.8 | 63 |
| 14 | Validation of a Femoral Critical Size Defect Model for Orthotopic Evaluation of Bone Healing: A Biomechanical, Veterinary and Trauma Surgical Perspective. Tissue Engineering - Part C: Methods, 2008, 14, 79-88. | 1.1 | 60 |
| 15 | Bone regeneration of minipig mandibular defect by adipose derived mesenchymal stem cells seeded tri-calcium phosphate- poly(D,L-lactide-co-glycolide) scaffolds. Scientific Reports, 2020, 10, 2062. | 1.6 | 59 |
| 16 | Biocompatibility of ceramic scaffolds for bone replacement made by 3D printing. Materialwissenschaft Und Werkstofftechnik, 2005, 36, 781-787. | 0.5 | 52 |
| 17 | Beamless Metal Additive Manufacturing. Materials, 2020, 13, 922. | 1.3 | 51 |
| 18 | A machine learning method for defect detection and visualization in selective laser sintering based on convolutional neural networks. Additive Manufacturing, 2021, 41, 101965. | 1.7 | 50 |

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|---|---|---|---|
| 19 | Endocultivation: the influence of delayed vs. simultaneous application of BMP-2 onto individually formed hydroxyapatite matrices for heterotopic bone induction. International Journal of Oral and Maxillofacial Surgery, 2012, 41, 1153-1160. | 0.7 | 48 |
| 20 | Diabetes and Breast Cancer Subtypes. PLoS ONE, 2017, 12, e0170084. | 1.1 | 47 |
| 21 | Nonâ€toxic flexible photopolymers for medical stereolithography technology. Rapid Prototyping Journal, 2007, 13, 38-47. | 1.6 | 44 |
| 22 | Effect of Laser Pulse Overlap and Scanning Line Overlap on Femtosecond Laser-Structured Ti6Al4V Surfaces. Materials, 2020, 13, 969. | 1.3 | 44 |
| 23 | Bioceramic Granulates for use in 3D Printing: Process Engineering Aspects. Materialwissenschaft Und Werkstofftechnik, 2006, 37, 533-537. | 0.5 | 41 |
| 24 | Influence of grain size and grain-size distribution on workability of granules with 3D printing. International Journal of Advanced Manufacturing Technology, 2014, 70, 135-144. | 1.5 | 36 |
| 25 | Complex mechanical behavior of human articular cartilage and hydrogels for cartilage repair. Acta Biomaterialia, 2020, 118, 113-128. | 4.1 | 36 |
| 26 | Modelling of a microfluidic device with piezoelectric actuators. Journal of Micromechanics and Microengineering, 2004, 14, 1140-1147. | 1.5 | 35 |
| 27 | Effects of Build Orientation on Surface Morphology and Bone Cell Activity of Additively Manufactured Ti6Al4V Specimens. Materials, 2018, 11, 915. | 1.3 | 35 |
| 28 | Drug Delivery From Poly(ethylene glycol) Diacrylate Scaffolds Produced by DLC Based Microâ€Stereolithography. Macromolecular Symposia, 2014, 346, 43-47. | 0.4 | 34 |
| 29 | Impact of Particle Size of Ceramic Granule Blends on Mechanical Strength and Porosity of 3D Printed Scaffolds. Materials, 2015, 8, 4720-4732. | 1.3 | 33 |
| 30 | Femtosecond Laser Nano/Micro Textured Ti6Al4V Surfacesâ€"Effect on Wetting and MG-63 Cell Adhesion. Materials, 2019, 12, 2210. | 1.3 | 33 |
| 31 | Rapid Prototyping models for surgical planning with hard and soft tissue representation. International Congress Series, 2004, 1268, 567-572. | 0.2 | 32 |
| 32 | A concept for scaffold-based tissue engineering in alveolar cleft osteoplasty. Journal of Cranio-Maxillo-Facial Surgery, 2015, 43, 830-836. | 0.7 | 32 |
| 33 | Electrolytic Plasma Polishing of Pipe Inner Surfaces. Metals, 2018, 8, 12. | 1.0 | 31 |
| 34 | Effect of Chemical Solvents on the Wetting Behavior Over Time of Femtosecond Laser Structured Ti6Al4V Surfaces. Nanomaterials, 2020, 10, 1241. | 1.9 | 30 |
| 35 | Microstructured zirconia surfaces modulate osteogenic marker genes in human primary osteoblasts. Journal of Materials Science: Materials in Medicine, 2015, 26, 5350. | 1.7 | 28 |
| 36 | Computer aided surgical reconstruction after complex facial burn injuries â€“ opportunities and limitations. Burns, 2005, 31, 85-91. | 1.1 | 27 |

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|---|---|---|---|
| 37 | Biocompatibility of individually designed scaffolds with human periosteum for use in tissue engineering. Journal of Materials Science: Materials in Medicine, 2010, 21, 1255-1262. | 1.7 | 25 |
| 38 | Printed pressure housings for underwater applications. Ocean Engineering, 2016, 113, 57-63. | 1.9 | 24 |
| 39 | Experimental studies on 3D printing of barium titanate ceramics for medical applications. Current Directions in Biomedical Engineering, 2016, 2, 95-99. | 0.2 | 21 |
| 40 | Morphological and mechanical characterisation of three-dimensional gyroid structures fabricated by electron beam melting for the use as a porous biomaterial. Journal of the Mechanical Behavior of Biomedical Materials, 2022, 125, 104882. | 1.5 | 21 |
| 41 | Materials and scaffolds in medical 3D printing and bioprinting in the context of bone regeneration. International Journal of Computerized Dentistry, 2016, 19, 301-321. | 0.2 | 21 |
| 42 | Continuous cellularization of calcium phosphate hybrid scaffolds induced by plasma polymer activation. Materials Science and Engineering C, 2016, 59, 514-523. | 3.8 | 20 |
| 43 | Preliminary Study on 3D printing of PEGDA Hydrogels for Frontal Sinus Implants using Digital Light Processing (DLP). Current Directions in Biomedical Engineering, 2019, 5, 249-252. | 0.2 | 20 |
| 44 | Track M. Biomedizinische Technik, 2014, 59, s910-s1027. | 0.9 | 19 |
| 45 | Investigation of powder removal of net-structured titanium parts made from electron beam melting. International Journal of Rapid Manufacturing, 2014, 4, 81. | 0.5 | 17 |
| 46 | Mechanical Properties of Stainless-Steel Structures Fabricated by Composite Extrusion Modelling. Metals, 2018, 8, 84. | 1.0 | 17 |
| 47 | A Novel Hybrid Additive Manufacturing Process for Drug Delivery Systems with Locally Incorporated Drug Depots. Pharmaceutics, 2019, 11, 661. | 2.0 | 17 |
| 48 | Heat accumulation during femtosecond laser treatment at high repetition rate â€“ A morphological, chemical and crystallographic characterization of self-organized structures on Ti6Al4V. Applied Surface Science, 2021, 570, 151115. | 3.1 | 17 |
| 49 | Additive Manufacturing of Drug Delivery Systems. Biomedizinische Technik, 2012, 57, . | 0.9 | 16 |
| 50 | An Investigation of Sintering Parameters on Titanium Powder for Electron Beam Melting Processing Optimization. Materials, 2016, 9, 974. | 1.3 | 16 |
| 51 | Composites of amorphous and nanocrystalline Zrâ€“Cuâ€“Alâ€“Nb bulk materials synthesized by spark plasma sintering. Journal of Alloys and Compounds, 2016, 667, 109-114. | 2.8 | 16 |
| 52 | Optimization of composite extrusion modeling process parameters for 3D printing of low-alloy steel AISI 8740 using metal injection moulding feedstock. Materials and Design, 2022, 219, 110814. | 3.3 | 16 |
| 53 | 3D printed gelatin/decellularized bone composite scaffolds for bone tissue engineering: Fabrication, characterization and cytocompatibility study. Materials Today Bio, 2022, 15, 100309. | 2.6 | 16 |
| 54 | Biomechanical behavior of bone scaffolds made of additive manufactured tricalciumphosphate and titanium alloy under different loading conditions. Journal of Applied Biomaterials and Functional Materials, 2013, 11, 159-166. | 0.7 | 15 |

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|---|---|---|---|
| 55 | Endocultivation: Histomorphological effects of repetitive rhBMP-2 application into prefabricated hydroxyapatite scaffolds at extraskeletal sites. Journal of Cranio-Maxillo-Facial Surgery, 2015, 43, 981-988. | 0.7 | 14 |
| 56 | Micro-Macro Relationship between Microstructure, Porosity, Mechanical Properties, and Build Mode Parameters of a Selective-Electron-Beam-Melted Ti-6Al-4V Alloy. Metals, 2019, 9, 786. | 1.0 | 14 |
| 57 | Machining of Biocompatible Ceramics with Femtosecond Laser Pulses. Biomedizinische Technik, 2013, 58 Suppl 1, . | 0.9 | 11 |
| 58 | A new Micro-Stereolithography-System based on Diode Laser Curing (DLC). International Journal of Precision Engineering and Manufacturing, 2014, 15, 2161-2166. | 1.1 | 11 |
| 59 | Influence of the Velocity and the Number of Polishing Passages on the Roughness of Electrolytic Plasma Polished Pipe Inner Surfaces. Metals, 2018, 8, 330. | 1.0 | 11 |
| 60 | Interactive effects of ZnO nanoparticles and temperature on molecular and cellular stress responses of the blue mussel Mytilus edulis. Science of the Total Environment, 2022, 818, 151785. | 3.9 | 11 |
| 61 | Functional Laterality of Task-Evoked Activation in Sensorimotor Cortex of Preterm Infants: An Optimized 3 T fMRI Study Employing a Customized Neonatal Head Coil. PLoS ONE, 2017, 12, e0169392. | 1.1 | 10 |
| 62 | Extrusion Based Additive Manufacturing of Metal Parts. Journal of Mechanics Engineering and Automation, 2017, 7, . | 0.0 | 10 |
| 63 | Thermal, Mechanical and Biocompatibility Analyses of Photochemically Polymerized PEGDA250 for Photopolymerization-Based Manufacturing Processes. Pharmaceutics, 2022, 14, 628. | 2.0 | 10 |
| 64 | Migration Capacity and Viability of Human Primary Osteoblasts in Synthetic Three-dimensional Bone Scaffolds Made of Tricalciumphosphate. Materials, 2011, 4, 1249-1259. | 1.3 | 9 |
| 65 | Osteoblast Behavior <i>In Vitro</i> in Porous Calcium Phosphate Composite Scaffolds, Surface Activated with a Cell Adhesive Plasma Polymer Layer. Materials Science Forum, 0, 706-709, 566-571. | 0.3 | 9 |
| 66 | Bioprinting of three dimensional tumor models: a preliminary study using a low cost 3D printer. Current Directions in Biomedical Engineering, 2017, 3, 135-138. | 0.2 | 9 |
| 67 | Time-Dependent Anisotropic Wetting Behavior of Deterministic Structures of Different Strut Widths on Ti6Al4V. Metals, 2019, 9, 938. | 1.0 | 9 |
| 68 | Digital and Decentralized Management of Patient Data in Healthcare Using Blockchain Implementations. Frontiers in Blockchain, 2021, 4, . | 1.6 | 9 |
| 69 | Establishment of a New Device for Electrical Stimulation of Non-Degenerative Cartilage Cells In Vitro. International Journal of Molecular Sciences, 2021, 22, 394. | 1.8 | 9 |
| 70 | Cellular Ti6Al4V with carbon nanotube-like structures fabricated by selective electron beam melting. Rapid Prototyping Journal, 2014, 20, 541-550. | 1.6 | 8 |
| 71 | Machine learning for the intelligent analysis of 3D printing conditions using environmental sensor data to support quality assurance. Additive Manufacturing, 2022, 50, 102535. | 1.7 | 8 |
| 72 | Infiltration of 3D printed tricalciumphosphate scaffolds with biodegradable polymers and biomolecules for local drug delivery. Biomedizinische Technik, 2013, 58 Suppl 1, . | 0.9 | 7 |

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|---|---|---|---|
| 73 | Influence of structure-determining parameters on the mechanical properties and damage behavior of electron beam melted lattice structures under quasi-static and fatigue compression loading. Materials Letters, 2021, 289, 129380. | 1.3 | 7 |
| 74 | Novel 3D printing concept for the fabrication of time-controlled drug delivery systems. Current Directions in Biomedical Engineering, 2018, 4, 141-144. | 0.2 | 6 |
| 75 | Biomaterialâ€Induction of a Transplantable Angiosome. Advanced Functional Materials, 2020, 30, 1905115. | 7.8 | 6 |
| 76 | Endocultivation: continuous application of rhBMP-2 via mini-osmotic pumps to induce bone formation at extraskeletal sites. International Journal of Oral and Maxillofacial Surgery, 2017, 46, 655-661. | 0.7 | 5 |
| 77 | DLP 3D printing of Dexamethasoneincorporated PEGDA-based photopolymers: compressive properties and drug release. Current Directions in Biomedical Engineering, 2020, 6, 406-409. | 0.2 | 5 |
| 78 | Fabrication of biodegradable, porous scaffolds using a low-cost 3D printer. International Journal of Rapid Manufacturing, 2014, 4, 140. | 0.5 | 4 |
| 79 | Adjusting inkjet printhead parameters to deposit drugs into micro-sized reservoirs. Current Directions in Biomedical Engineering, 2016, 2, 387-390. | 0.2 | 4 |
| 80 | Mechanical and biological effects of infiltration with biopolymers on 3D printed tricalciumphosphate scaffolds. Dental Materials Journal, 2017, 36, 553-559. | 0.8 | 4 |
| 81 | Thermomechanical properties of PEGDA and its co-polymers. Current Directions in Biomedical Engineering, 2018, 4, 669-672. | 0.2 | 4 |
| 82 | Modification of joint prosthesis surfaces by ultrashort pulse laser treatment for improved joint lubrication. Current Directions in Biomedical Engineering, 2019, 5, 57-60. | 0.2 | 4 |
| 83 | A New Method for Modeling the Cyclic Structure of the Surface Microrelief of Titanium Alloy Ti6Al4V After Processing with Femtosecond Pulses. Materials, 2020, 13, 4983. | 1.3 | 4 |
| 84 | Ring-Shaped Surface Microstructures for Improved Lubrication Performance of Joint Prostheses. Lubricants, 2020, 8, 45. | 1.2 | 4 |
| 85 | FAST GENERATION OF STEREOLITHOGRAPHIC MODELS. Biomedizinische Technik, 2002, 47, 83-85. | 0.9 | 3 |
| 86 | Novel, biocompatible polyether(meth)acrylate-based formulations for stereolithography â€“ A new flexible material class for three-dimensional applications. E-Polymers, 2005, 5, . | 1.3 | 3 |
| 87 | The Effects of Various Flow Velocities on the Sensitivity of an Enzyme-Linked Immunosorbent Assay in a Fluidic Allergy Diagnostic Device. Point of Care, 2014, 13, 35-40. | 0.5 | 3 |
| 88 | Inkjet printing of viable human dental follicle stem cells. Current Directions in Biomedical Engineering, 2015, 1, 112-115. | 0.2 | 3 |
| 89 | Numerical simulation of low-pulsation gerotor pumps for use in the pharmaceutical industry and in biomedicine. Current Directions in Biomedical Engineering, 2015, 1, 433-436. | 0.2 | 3 |
| 90 | Tunable Pseudo-Piezoelectric Effect in Doped Calcium Titanate for Bone Tissue Engineering. Materials, 2021, 14, 1495. | 1.3 | 3 |

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| 91 | Propagationâ€Based Phase Contrast Computed Tomography as a Suitable Tool for the Characterization of Spatial 3D Cell Distribution in Biomaterials. Advanced Engineering Materials, 2021, 23, 2001188. | 1.6 | 3 |
| 92 | PEGDA drug delivery scaffolds prepared with UV curing process. Current Directions in Biomedical Engineering, 2020, 6, 193-195. | 0.2 | 3 |
| 93 | Image-based analysis of the internal microstructure of bone replacement scaffolds fabricated by 3D printing. , 2006, 6318, 64. | | 2 |
| 94 | Processing and mechanical properties of a new flexible acrylic stereolithographic resin family for engineering and medical device manufacturing. International Journal of Computer Applications in Technology, 2009, 36, 10. | 0.3 | 2 |
| 95 | Material Processing with Femtosecond Laser Pulses for Medical Applications. Biomedizinische Technik, 2012, 57, . | 0.9 | 2 |
| 96 | Loading method for discrete drug depots on implant surfaces. Biomedizinische Technik, 2012, 57, . | 0.9 | 2 |
| 97 | Improvement of Mechanical Properties of Bone Tissue Engineered Scaffolds through Sintering and Infiltration with Biopolymers. , 2013, , . | | 2 |
| 98 | Plasma printing - direct local patterning with functional polymer coatings for biosensing and microfluidics applications. Microelectronic Engineering, 2020, 233, 111431. | 1.1 | 2 |
| 99 | Printing of vessels for small functional tissues â€“ a preliminary study. Current Directions in Biomedical Engineering, 2020, 6, 469-472. | 0.2 | 2 |
| 100 | Micro injection molding of individualised implants using 3D printed molds manufactured via digital light processing. Current Directions in Biomedical Engineering, 2021, 7, 399-402. | 0.2 | 2 |
| 101 | Opportunities and limitations of the computer aided surgical reconstruction after complex facial burn injuries. International Congress Series, 2005, 1281, 504-508. | 0.2 | 1 |
| 102 | Cell seeding chamber for bone graft substitutes. Biomedizinische Technik, 2012, 57, . | 0.9 | 1 |
| 103 | Laser structuring of silica surface improves cell adhesion. Biomedizinische Technik, 2012, 57, . | 0.9 | 1 |
| 104 | Material processing with shaped femtosecond laser pulses. Biomedizinische Technik, 2012, 57, . | 0.9 | 1 |
| 105 | A Novel Cell Seeding Chamber for Tissue Engineering and Regenerative Medicine. Processes, 2014, 2, 361-370. | 1.3 | 1 |
| 106 | Tomographic particle image velocimetry of a water-jet for low volume harvesting of fat tissue for regenerative medicine. Current Directions in Biomedical Engineering, 2015, 1, 345-348. | 0.2 | 1 |
| 107 | Flow optimised design of a novel point-of-care diagnostic device for the detection of disease specific biomarkers. Current Directions in Biomedical Engineering, 2016, 2, 685-688. | 0.2 | 1 |
| 108 | Thermomechanical properties of PEGDA in combination with different photo-curable comonomers. Current Directions in Biomedical Engineering, 2019, 5, 319-321. | 0.2 | 1 |

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| 109 | Numerical simulation of the electric field distribution in an electrical stimulation device for scaffolds settled with cartilaginous cells. , 2019, 2019, 6481-6484. | | 1 |
| 110 | Additive Fertigung mit Metallspritzguss-Granulaten / Additive manufacturing with metal injection molding granules. , 2016, , 262-269. | | 1 |
| 111 | Laser induced surface structure on stainless steel influences cell viability. Biomedizinische Technik, 2012, 57, . | 0.9 | 0 |
| 112 | Machining of Biocompatible Polymers with Shaped Femtosecond Laser Pulses. Biomedizinische Technik, 2013, 58 Suppl 1, . | 0.9 | 0 |
| 113 | Simulation of Cell-Laden Flow in a Cell Mixer Using Computational Fluid Dynamics. Biomedizinische Technik, 2013, 58 Suppl 1, . | 0.9 | 0 |
| 114 | On the Development of a Test Setup for a Non-Destructive Quality Control of Centifluidic Medical Devices. Biomedizinische Technik, 2013, 58 Suppl 1, . | 0.9 | 0 |
| 115 | Comparison of Elisa Sensitivity Relating to Manual and Low-Pressure Loading of the Fluidic Test Device. Biomedizinische Technik, 2013, 58 Suppl 1, . | 0.9 | 0 |
| 116 | Numerical and experimental flow analysis in centifluidic systems for rapid allergy screening tests. Current Directions in Biomedical Engineering, 2015, 1, 437-441. | 0.2 | 0 |
| 117 | Analysis of the release kinetics of surface-bound proteins via laser-induced fluorescence. Current Directions in Biomedical Engineering, 2015, 1, 340-344. | 0.2 | 0 |
| 118 | Influence of different test gases in a non-destructive 100% quality control system for medical devices. Current Directions in Biomedical Engineering, 2016, 2, 587-591. | 0.2 | 0 |
| 119 | Numerical flow simulation methods and additive manufacturing methods for the development of a flow optimised design of a novel point-of-care diagnostic device. Current Directions in Biomedical Engineering, 2017, 3, 619-622. | 0.2 | 0 |
| 120 | Inkjet printing for localized coating and functionalization of medical devices. Current Directions in Biomedical Engineering, 2018, 4, 233-236. | 0.2 | 0 |
| 121 | Silicone-Based Molding Technique for Optical Flow Analysis in Transparent Models of Fluidic Components. Applied Sciences (Switzerland), 2018, 8, 512. | 1.3 | 0 |
| 122 | Initial study on removing cellular residues from hydrostatic high-pressure treated allogeneic tissue using ultrasound. Current Directions in Biomedical Engineering, 2020, 6, 176-179. | 0.2 | 0 |
| 123 | Microstructured ceramic and metallic implant surfaces and their impact on the viscosity of a synovia fluid substitute. Current Directions in Biomedical Engineering, 2020, 6, 620-623. | 0.2 | 0 |
| 124 | In vitro release of chlorhexidine from UV-cured PEGDA drug delivery scaffolds. Current Directions in Biomedical Engineering, 2021, 7, 519-522. | 0.2 | 0 |
| 125 | Customised micro-electrode array (MEA) test setup featuring a silicone-casted overlay with two chambers for separated cell seedings. Current Directions in Biomedical Engineering, 2021, 7, 311-314. | 0.2 | 0 |