

Ferry P W Melchels

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

43
papers

9,370
citations

32
h-index

47
g-index

47
ext. papers

10,874
ext. citations

10.7
avg, IF

6.3
L-index

| # | Paper | IF | Citations |
|----|--|------|-----------|
| 43 | Routes towards manufacturing biodegradable electronics with polycaprolactone (PCL) via direct light writing and electroless plating. <i>Flexible and Printed Electronics</i> , 2022 , 7, 025006 | 3.1 | 3 |
| 42 | 3D Printing in Suspension Baths: Keeping the Promises of Bioprinting Afloat. <i>Trends in Biotechnology</i> , 2020 , 38, 584-593 | 15.1 | 93 |
| 41 | Three dimensional in vitro models of cancer: Bioprinting multilineage glioblastoma models. <i>Advances in Biological Regulation</i> , 2020 , 75, 100658 | 6.2 | 36 |
| 40 | Prolonged recovery of 3D printed, photo-cured polylactide shape memory polymer networks. <i>APL Bioengineering</i> , 2020 , 4, 036105 | 6.6 | 6 |
| 39 | 3D Bioprinting of Lignocellulosic Biomaterials. <i>Advanced Healthcare Materials</i> , 2020 , 9, e2001472 | 10.1 | 24 |
| 38 | Emulating Human Tissues and Organs: A Bioprinting Perspective Toward Personalized Medicine. <i>Chemical Reviews</i> , 2020 , 120, 11128-11174 | 68.1 | 24 |
| 37 | Visible Light Cross-Linking of Gelatin Hydrogels Offers an Enhanced Cell Microenvironment with Improved Light Penetration Depth. <i>Macromolecular Bioscience</i> , 2019 , 19, e1900098 | 5.5 | 63 |
| 36 | Comparing Hydrogels for Human Nucleus Pulposus Regeneration: Role of Osmolarity During Expansion. <i>Tissue Engineering - Part C: Methods</i> , 2018 , 24, 222-232 | 2.9 | 10 |
| 35 | Bio-resin for high resolution lithography-based biofabrication of complex cell-laden constructs. <i>Biofabrication</i> , 2018 , 10, 034101 | 10.5 | 135 |
| 34 | Focal adhesion signaling affects regeneration by human nucleus pulposus cells in collagen- but not carbohydrate-based hydrogels. <i>Acta Biomaterialia</i> , 2018 , 66, 238-247 | 10.8 | 15 |
| 33 | Improved bovine embryo production in an oviduct-on-a-chip system: prevention of poly-spermic fertilization and parthenogenic activation. <i>Lab on A Chip</i> , 2017 , 17, 905-916 | 7.2 | 35 |
| 32 | 3D bioprinting of methacrylated hyaluronic acid (MeHA) hydrogel with intrinsic osteogenicity. <i>PLoS ONE</i> , 2017 , 12, e0177628 | 3.7 | 169 |
| 31 | Proposal to assess printability of bioinks for extrusion-based bioprinting and evaluation of rheological properties governing bioprintability. <i>Biofabrication</i> , 2017 , 9, 044107 | 10.5 | 363 |
| 30 | Yield stress determines bioprintability of hydrogels based on gelatin-methacryloyl and gellan gum for cartilage bioprinting. <i>Biofabrication</i> , 2016 , 8, 035003 | 10.5 | 175 |
| 29 | Hydrogel-based reinforcement of 3D bioprinted constructs. <i>Biofabrication</i> , 2016 , 8, 035004 | 10.5 | 63 |
| 28 | Accurate Measurements of the Skin Surface Area of the Healthy Auricle and Skin Deficiency in Microtia Patients. <i>Plastic and Reconstructive Surgery - Global Open</i> , 2016 , 4, e1146 | 1.2 | 5 |
| 27 | Functionalization, preparation and use of cell-laden gelatin methacryloyl-based hydrogels as modular tissue culture platforms. <i>Nature Protocols</i> , 2016 , 11, 727-46 | 18.8 | 391 |

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| 26 | Gelatin-Methacryloyl Hydrogels: Towards Biofabrication-Based Tissue Repair. <i>Trends in Biotechnology</i> , 2016 , 34, 394-407 | 15.1 | 411 |
| 25 | Reinforcement of hydrogels using three-dimensionally printed microfibres. <i>Nature Communications</i> , 2015 , 6, 6933 | 17.4 | 464 |
| 24 | Initial design and physical characterization of a polymeric device for osmosis-driven delayed burst delivery of vaccines. <i>Biotechnology and Bioengineering</i> , 2015 , 112, 1927-35 | 4.9 | 4 |
| 23 | Sustained regeneration of high-volume adipose tissue for breast reconstruction using computer aided design and biomanufacturing. <i>Biomaterials</i> , 2015 , 52, 551-60 | 15.6 | 75 |
| 22 | Gelatin methacrylamide-based hydrogels: an alternative three-dimensional cancer cell culture system. <i>Acta Biomaterialia</i> , 2014 , 10, 2551-62 | 10.8 | 130 |
| 21 | A biomimetic extracellular matrix for cartilage tissue engineering centered on photocurable gelatin, hyaluronic acid and chondroitin sulfate. <i>Acta Biomaterialia</i> , 2014 , 10, 214-23 | 10.8 | 234 |
| 20 | Development and characterisation of a new bioink for additive tissue manufacturing. <i>Journal of Materials Chemistry B</i> , 2014 , 2, 2282-2289 | 7.3 | 150 |
| 19 | Effects of scaffold architecture on mechanical characteristics and osteoblast response to static and perfusion bioreactor cultures. <i>Biotechnology and Bioengineering</i> , 2014 , 111, 1440-51 | 4.9 | 43 |
| 18 | Chondrocyte redifferentiation and construct mechanical property development in single-component photocrosslinkable hydrogels. <i>Journal of Biomedical Materials Research - Part A</i> , 2014 , 102, 2544-53 | 5.4 | 47 |
| 17 | 25th anniversary article: Engineering hydrogels for biofabrication. <i>Advanced Materials</i> , 2013 , 25, 5011-28 | 28.4 | 1194 |
| 16 | Biofabrication of multi-material anatomically shaped tissue constructs. <i>Biofabrication</i> , 2013 , 5, 035007 | 10.5 | 221 |
| 15 | Gelatin-methacrylamide hydrogels as potential biomaterials for fabrication of tissue-engineered cartilage constructs. <i>Macromolecular Bioscience</i> , 2013 , 13, 551-61 | 5.5 | 507 |
| 14 | Breast Reconstruction Using Biofabrication-Based Tissue Engineering Strategies 2013 , 183-216 | | 7 |
| 13 | Additive manufacturing of tissues and organs. <i>Progress in Polymer Science</i> , 2012 , 37, 1079-1104 | 29.6 | 841 |
| 12 | Engineering of vascularized adipose constructs. <i>Cell and Tissue Research</i> , 2012 , 347, 747-57 | 4.2 | 36 |
| 11 | The influence of the scaffold design on the distribution of adhering cells after perfusion cell seeding. <i>Biomaterials</i> , 2011 , 32, 2878-84 | 15.6 | 115 |
| 10 | CAD/CAM-assisted breast reconstruction. <i>Biofabrication</i> , 2011 , 3, 034114 | 10.5 | 44 |
| 9 | Photo-Cross-Linked Poly(dl-lactide)-Based Networks. Structural Characterization by HR-MAS NMR Spectroscopy and Hydrolytic Degradation Behavior. <i>Macromolecules</i> , 2010 , 43, 8570-8579 | 5.5 | 29 |

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| 8 | Effects of the architecture of tissue engineering scaffolds on cell seeding and culturing. <i>Acta Biomaterialia</i> , 2010 , 6, 4208-17 | 10.8 | 275 |
| 7 | Designed biodegradable hydrogel structures prepared by stereolithography using poly(ethylene glycol)/poly(D,L-lactide)-based resins. <i>Journal of Controlled Release</i> , 2010 , 148, 34-41 | 11.7 | 134 |
| 6 | A review on stereolithography and its applications in biomedical engineering. <i>Biomaterials</i> , 2010 , 31, 6121-30 | 15.6 | 1426 |
| 5 | Mathematically defined tissue engineering scaffold architectures prepared by stereolithography. <i>Biomaterials</i> , 2010 , 31, 6909-16 | 15.6 | 365 |
| 4 | A poly(D,L-lactide) resin for the preparation of tissue engineering scaffolds by stereolithography. <i>Biomaterials</i> , 2009 , 30, 3801-9 | 15.6 | 328 |
| 3 | Fumaric acid monoethyl ester-functionalized poly(D,L-lactide)/N-vinyl-2-pyrrolidone resins for the preparation of tissue engineering scaffolds by stereolithography. <i>Biomacromolecules</i> , 2009 , 10, 214-20 | 6.9 | 110 |
| 2 | A review of rapid prototyping techniques for tissue engineering purposes. <i>Annals of Medicine</i> , 2008 , 40, 268-80 | 1.5 | 557 |
| 1 | Methacrylate-Functionalized Oligomers Based On Lactide, E-Caprolactone And Trimethylene Carbonate For Application In Stereo-Lithography. <i>Materials Research Innovations</i> , 2006 , 10, 321-330 | 1.9 | 3 |