

# Anja Lode

## List of Publications by Year in descending order

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98  
papers

4,342  
citations

81434

41  
h-index

129628

63  
g-index

99  
all docs

99  
docs citations

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times ranked

5897  
citing authors

#	ARTICLE	IF	CITATIONS
1	Composites consisting of calcium phosphate cements and mesoporous bioactive glasses as a 3D plottable drug delivery system. <i>Acta Biomaterialia</i> , 2023, 156, 146-157.	4.1	20
2	Core-shell bioprinting as a strategy to apply differentiation factors in a spatially defined manner inside osteochondral tissue substitutes. <i>Biofabrication</i> , 2022, 14, 014108.	3.7	21
3	Think outside the box: 3D bioprinting concepts for biotechnological applications recent developments and future perspectives. <i>Biotechnology Advances</i> , 2022, 58, 107930.	6.0	15
4	Addition of High Acyl Gellan Gum to Low Acyl Gellan Gum Enables the Blends 3D Bioprintable. <i>Gels</i> , 2022, 8, 199.	2.1	7
5	Cell-Material Interactions in Direct Contact Culture of Endothelial Cells on Biodegradable Iron-Based Stents Fabricated by Laser Powder Bed Fusion and Impact of Ion Release. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 439-451.	4.0	17
6	CyMAD bioreactor: A cyclic magnetic actuation device for magnetically mediated mechanical stimulation of 3D bioprinted hydrogel scaffolds. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2022, 131, 105253.	1.5	5
7	3D Plotting of Calcium Phosphate Cement and Melt Electrowriting of Polycaprolactone Microfibers in One Scaffold: A Hybrid Additive Manufacturing Process. <i>Journal of Functional Biomaterials</i> , 2022, 13, 75.	1.8	8
8	Viability and Functionality of Neonatal Porcine Islet-like Cell Clusters Bioprinted in Alginate-Based Bioinks. <i>Biomedicines</i> , 2022, 10, 1420.	1.4	4
9	Bildgebungs-basiertes individuelles Design und additive Fertigung von osteochondralen Knochenersatzstrukturen. , 2021, , 19-35.		0
10	Bioprinting of Magnetically Deformable Scaffolds. <i>ACS Biomaterials Science and Engineering</i> , 2021, 7, 648-662.	2.6	30
11	Toward Biofabrication of Resorbable Implants Consisting of a Calcium Phosphate Cement and Fibrin-A Characterization In Vitro and In Vivo. <i>International Journal of Molecular Sciences</i> , 2021, 22, 1218.	1.8	20
12	Tailorable Zinc-Substituted Mesoporous Bioactive Glass/Alginate-Methylcellulose Composite Bioinks. <i>Materials</i> , 2021, 14, 1225.	1.3	28
13	3D bioprinting of hepatocytes: core-shell structured co-cultures with fibroblasts for enhanced functionality. <i>Scientific Reports</i> , 2021, 11, 5130.	1.6	56
14	Chemotactic and Angiogenic Potential of Mineralized Collagen Scaffolds Functionalized with Naturally Occurring Bioactive Factor Mixtures to Stimulate Bone Regeneration. <i>International Journal of Molecular Sciences</i> , 2021, 22, 5836.	1.8	8
15	3D printing of patient-specific implants for osteochondral defects: workflow for an MRI-guided zonal design. <i>Bio-Design and Manufacturing</i> , 2021, 4, 818-832.	3.9	18
16	Using melt-electrowritten microfibres for tailoring scaffold mechanics of 3D bioprinted chondrocyte-laden constructs. <i>Bioprinting</i> , 2021, 23, e00158.	2.9	7
17	Homogeneous and Reproducible Mixing of Highly Viscous Biomaterial Inks and Cell Suspensions to Create Bioinks. <i>Gels</i> , 2021, 7, 227.	2.1	16
18	Composite Bioinks With Mesoporous Bioactive Glasses-A Critical Evaluation of Results Obtained by In Vitro Experiments. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 767256.	2.0	3

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19	Controlled and Local Delivery of Antibiotics by 3D Core/Shell Printed Hydrogel Scaffolds to Treat Soft Tissue Infections. <i>Pharmaceutics</i> , 2021, 13, 2151.	2.0	12
20	Evaluation of topographical and chemical modified TiAl6V4 implant surfaces in a weight-bearing intramedullary femur model in rabbit. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2020, 108, 1117-1128.	1.6	4
21	Electrodeposition of Sr-substituted hydroxyapatite on low modulus beta-type Ti-45Nb and effect on in vitro Sr release and cell response. <i>Materials Science and Engineering C</i> , 2020, 108, 110425.	3.8	26
22	The Secretome of Hypoxia Conditioned hMSC Loaded in a Central Depot Induces Chemotaxis and Angiogenesis in a Biomimetic Mineralized Collagen Bone Replacement Material. <i>Advanced Healthcare Materials</i> , 2020, 9, e1901426.	3.9	23
23	Characterization of Naturally Occurring Bioactive Factor Mixtures for Bone Regeneration. <i>International Journal of Molecular Sciences</i> , 2020, 21, 1412.	1.8	11
24	A Novel Plasma-Based Bioink Stimulates Cell Proliferation and Differentiation in Bioprinted, Mineralized Constructs. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 12557-12572.	4.0	72
25	Engineering considerations on extrusion-based bioprinting: interactions of material behavior, mechanical forces and cells in the printing needle. <i>Biofabrication</i> , 2020, 12, 025022.	3.7	93
26	Effect of $\sim$ in air <sup>TM</sup> freezing on post-thaw recovery of <i>Callithrix jacchus</i> mesenchymal stromal cells and properties of 3D collagen-hydroxyapatite scaffolds. <i>Cryobiology</i> , 2020, 92, 215-230.	0.3	13
27	Nanoclay-based 3D printed scaffolds promote vascular ingrowth ex vivo and generate bone mineral tissue in vitro and in vivo. <i>Biofabrication</i> , 2020, 12, 035010.	3.7	73
28	3D Printing of Bone Grafts for Cleft Alveolar Osteoplasty – In vivo Evaluation in a Preclinical Model. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 217.	2.0	45
29	3D Bioprinting of osteochondral tissue substitutes – in vitro-chondrogenesis in multi-layered mineralized constructs. <i>Scientific Reports</i> , 2020, 10, 8277.	1.6	86
30	Bone Replacement: The Secretome of Hypoxia Conditioned hMSC Loaded in a Central Depot Induces Chemotaxis and Angiogenesis in a Biomimetic Mineralized Collagen Bone Replacement Material (Adv.) <i>Tj ETQq0 0 0 BT /Overlock 10 T</i>	3.9	10
31	Chitinous Scaffolds from Marine Sponges for Tissue Engineering. <i>Springer Series in Biomaterials Science and Engineering</i> , 2019, , 285-307.	0.7	2
32	Development and Characterization of Composites Consisting of Calcium Phosphate Cements and Mesoporous Bioactive Glass for Extrusion-Based Fabrication. <i>Materials</i> , 2019, 12, 2022.	1.3	25
33	3D Plotted Biphasic Bone Scaffolds for Growth Factor Delivery: Biological Characterization In Vitro and In Vivo. <i>Advanced Healthcare Materials</i> , 2019, 8, e1801512.	3.9	47
34	3D Bioprinting of Functional Islets of Langerhans in an Alginate/Methylcellulose Hydrogel Blend. <i>Advanced Healthcare Materials</i> , 2019, 8, e1801631.	3.9	67
35	Investigating the effect of sterilisation methods on the physical properties and cytocompatibility of methyl cellulose used in combination with alginate for 3D-bioplotting of chondrocytes. <i>Journal of Materials Science: Materials in Medicine</i> , 2019, 30, 10.	1.7	54
36	Endosteal and Perivascular Subniches in a 3D Bone Marrow Model for Multiple Myeloma. <i>Tissue Engineering - Part C: Methods</i> , 2018, 24, 300-312.	1.1	29

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37	Trivalent chromium incorporated in a crystalline calcium phosphate matrix accelerates materials degradation and bone formation in vivo. <i>Acta Biomaterialia</i> , 2018, 69, 332-341.	4.1	19
38	Strontium-modified premixed calcium phosphate cements for the therapy of osteoporotic bone defects. <i>Acta Biomaterialia</i> , 2018, 65, 475-485.	4.1	96
39	Strontium-modification of porous scaffolds from mineralized collagen for potential use in bone defect therapy. <i>Materials Science and Engineering C</i> , 2018, 84, 159-167.	3.8	33
40	Functionalized Bioink with Optical Sensor Nanoparticles for OCT Imaging in 3D-Bioprinted Constructs. <i>Advanced Functional Materials</i> , 2018, 28, 1804411.	7.8	63
41	A Methylcellulose Hydrogel as Support for 3D Plotting of Complex Shaped Calcium Phosphate Scaffolds. <i>Gels</i> , 2018, 4, 68.	2.1	44
42	Bioprinting of mineralized constructs utilizing multichannel plotting of a self-setting calcium phosphate cement and a cell-laden bioink. <i>Biofabrication</i> , 2018, 10, 045002.	3.7	86
43	Monitoring of Plant Cells and Tissues in Bioprocesses. <i>Reference Series in Phytochemistry</i> , 2018, , 433-481.	0.2	3
44	Design and Fabrication of Complex Scaffolds for Bone Defect Healing: Combined 3D Plotting of a Calcium Phosphate Cement and a Growth Factor-Loaded Hydrogel. <i>Annals of Biomedical Engineering</i> , 2017, 45, 224-236.	1.3	87
45	Three-dimensional plotting of a cell-laden alginate/methylcellulose blend: towards biofabrication of tissue engineering constructs with clinically relevant dimensions. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2017, 11, 1574-1587.	1.3	180
46	Calcium phosphate bone cement/mesoporous bioactive glass composites for controlled growth factor delivery. <i>Biomaterials Science</i> , 2017, 5, 578-588.	2.6	67
47	Novel chitin scaffolds derived from marine sponge <i>lanthella basta</i> for tissue engineering approaches based on human mesenchymal stromal cells: Biocompatibility and cryopreservation. <i>International Journal of Biological Macromolecules</i> , 2017, 104, 1955-1965.	3.6	75
48	Central Growth Factor Loaded Depots in Bone Tissue Engineering Scaffolds for Enhanced Cell Attraction. <i>Tissue Engineering - Part A</i> , 2017, 23, 762-772.	1.6	12
49	3D chitinous scaffolds derived from cultivated marine demosponge <i>Aplysina aerophoba</i> for tissue engineering approaches based on human mesenchymal stromal cells. <i>International Journal of Biological Macromolecules</i> , 2017, 104, 1966-1974.	3.6	59
50	Cu <sup>2+</sup> , Co <sup>2+</sup> and Cr <sup>3+</sup> doping of a calcium phosphate cement influences materials properties and response of human mesenchymal stromal cells. <i>Materials Science and Engineering C</i> , 2017, 73, 99-110.	3.8	41
51	Green bioprinting: extrusion-based fabrication of plant cell-laden biopolymer hydrogel scaffolds. <i>Biofabrication</i> , 2017, 9, 045011.	3.7	63
52	Additive Biotech—Chances, challenges, and recent applications of additive manufacturing technologies in biotechnology. <i>New Biotechnology</i> , 2017, 39, 222-231.	2.4	40
53	Data on TOF-SIMS analysis of Cu <sup>2+</sup> , Co <sup>2+</sup> and Cr <sup>3+</sup> doped calcium phosphate cements. <i>Data in Brief</i> , 2017, 13, 353-355.	0.5	1
54	Three-dimensional bioprinting of volumetric tissues and organs. <i>MRS Bulletin</i> , 2017, 42, 585-592.	1.7	39

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55	<i>In situ</i> functionalization of scaffolds during extrusion-based 3D plotting using a piezoelectric nanoliter pipette. <i>Journal of 3D Printing in Medicine</i> , 2017, 1, 25-29.	1.0	6
56	Functionalization of Ti-40Nb implant material with strontium by reactive sputtering. <i>Biomaterials Research</i> , 2017, 21, 18.	3.2	2
57	Cell-laden biphasic scaffolds with anisotropic structure for the regeneration of osteochondral tissue. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2016, 10, 404-417.	1.3	21
58	Highly Concentrated Alginate-Gellan Gum Composites for 3D Plotting of Complex Tissue Engineering Scaffolds. <i>Polymers</i> , 2016, 8, 170.	2.0	56
59	A versatile method for combining different biopolymers in a core/shell fashion by 3D plotting to achieve mechanically robust constructs. <i>Biofabrication</i> , 2016, 8, 045001.	3.7	80
60	Additive manufacturing of collagen scaffolds by three-dimensional plotting of highly viscous dispersions. <i>Biofabrication</i> , 2016, 8, 015015.	3.7	48
61	Monitoring of Plant Cells and Tissues in Bioprocesses. <i>Reference Series in Phytochemistry</i> , 2016, , 1-49.	0.2	0
62	Concentrated gelatin/alginate composites for fabrication of predesigned scaffolds with a favorable cell response by 3D plotting. <i>RSC Advances</i> , 2015, 5, 43480-43488.	1.7	79
63	Green bioprinting: Fabrication of photosynthetic algae-laden hydrogel scaffolds for biotechnological and medical applications. <i>Engineering in Life Sciences</i> , 2015, 15, 177-183.	2.0	104
64	Green bioprinting: Viability and growth analysis of microalgae immobilized in 3D-plotted hydrogels versus suspension cultures. <i>Engineering in Life Sciences</i> , 2015, 15, 678-688.	2.0	46
65	Alginate/Nanohydroxyapatite Scaffolds with Designed Core/Shell Structures Fabricated by 3D Plotting and <i>In Situ</i> Mineralization for Bone Tissue Engineering. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 6541-6549.	4.0	133
66	3D plotting of growth factor loaded calcium phosphate cement scaffolds. <i>Acta Biomaterialia</i> , 2015, 27, 264-274.	4.1	140
67	Heparin modification of a biomimetic bone matrix for controlled release of VEGF. <i>Journal of Biomedical Materials Research - Part A</i> , 2014, 102, 3500-3511.	2.1	49
68	Fabrication of porous scaffolds by three-dimensional plotting of a pasty calcium phosphate bone cement under mild conditions. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2014, 8, 682-693.	1.3	108
69	Heparinization of a biomimetic bone matrix: integration of heparin during matrix synthesis versus adsorptive post surface modification. <i>Journal of Materials Science: Materials in Medicine</i> , 2014, 25, 607-621.	1.7	11
70	Jellyfish collagen scaffolds for cartilage tissue engineering. <i>Acta Biomaterialia</i> , 2014, 10, 883-892.	4.1	147
71	Comparative evaluation of different calcium phosphate-based bone graft granules "an <i>in vitro</i> study with osteoblast-like cells. <i>Clinical Oral Implants Research</i> , 2013, 24, 441-449.	1.9	24
72	Direct Plotting of Three-Dimensional Hollow Fiber Scaffolds Based on Concentrated Alginate Pastes for Tissue Engineering. <i>Advanced Healthcare Materials</i> , 2013, 2, 777-783.	3.9	119

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73	Hierarchical mesoporous bioactive glass/alginate composite scaffolds fabricated by three-dimensional plotting for bone tissue engineering. <i>Biofabrication</i> , 2013, 5, 015005.	3.7	138
74	Influence of different modifications of a calcium phosphate cement on resorption and new bone formation: An <i>in vivo</i> study in the minipig. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2013, 101, 1410-1418.	1.6	9
75	Well-ordered biphasic calcium phosphate- <i>alginate</i> scaffolds fabricated by multi-channel 3D plotting under mild conditions. <i>Journal of Materials Chemistry B</i> , 2013, 1, 4088.	2.9	88
76	A novel strontium(II)-modified calcium phosphate bone cement stimulates human-bone-marrow-derived mesenchymal stem cell proliferation and osteogenic differentiation <i>in vitro</i> . <i>Acta Biomaterialia</i> , 2013, 9, 9547-9557.	4.1	165
77	Fabrication and characterization of regenerated silk scaffolds reinforced with natural silk fibers for bone tissue engineering. <i>Journal of Biomedical Materials Research - Part A</i> , 2013, 101A, 2392-2404.	2.1	77
78	Nanocrystalline spherical hydroxyapatite granules for bone repair: <i>in vitro</i> evaluation with osteoblast-like cells and osteoclasts. <i>Journal of Materials Science: Materials in Medicine</i> , 2013, 24, 1755-1766.	1.7	34
79	Osteoblast responses to novel titanium-based surfaces produced by plasma- and ion beam technologies. <i>RSC Advances</i> , 2013, 3, 11205.	1.7	4
80	Characterization of the osseointegration of Algipore and Algipore modified with mineralized collagen type I. <i>Oral Surgery, Oral Medicine, Oral Pathology and Oral Radiology</i> , 2012, 114, S160-S166.	0.2	2
81	Novel ceramic bone replacement material Osbone <sup>®</sup> in a comparative <i>in vitro</i> study with osteoblasts. <i>Clinical Oral Implants Research</i> , 2011, 22, 651-657.	1.9	30
82	Optimization of culture conditions for osteogenically-induced mesenchymal stem cells in $\beta$ -tricalcium phosphate ceramics with large interconnected channels. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2011, 5, 444-453.	1.3	23
83	Stem Cell Engineering for Regeneration of Bone Tissue. , 2011, , 383-399.		3
84	Influence of different modifications of a calcium phosphate bone cement on adhesion, proliferation, and osteogenic differentiation of human bone marrow stromal cells. <i>Journal of Biomedical Materials Research - Part A</i> , 2010, 92A, 1452-1460.	2.1	15
85	Modifications of a calcium phosphate cement with biomolecules—Influence on nanostructure, material, and biological properties. <i>Journal of Biomedical Materials Research - Part A</i> , 2010, 95A, 912-923.	2.1	21
86	A bioactive triphasic ceramic-coated hydroxyapatite promotes proliferation and osteogenic differentiation of human bone marrow stromal cells. <i>Journal of Biomedical Materials Research - Part A</i> , 2009, 90A, 533-542.	2.1	28
87	Proliferation and osteogenic differentiation of human bone marrow stromal cells on alginate-gelatin-hydroxyapatite scaffolds with anisotropic pore structure. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2009, 3, 54-62.	1.3	72
88	Development of a mechanically stable support for the osteoinductive biomaterial COLLOSS <sup>®</sup> . <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2009, 3, 149-152.	1.3	6
89	In Vitro Evaluation of Textile Chitosan Scaffolds for Tissue Engineering using Human Bone Marrow Stromal Cells. <i>Biomacromolecules</i> , 2009, 10, 1305-1310.	2.6	50
90	Mineralised collagen—an artificial, extracellular bone matrix—improves osteogenic differentiation of bone marrow stromal cells. <i>Journal of Materials Science: Materials in Medicine</i> , 2008, 19, 269-275.	1.7	85

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91	Cultivation of human bone marrow stromal cells on three-dimensional scaffolds of mineralized collagen: influence of seeding density on colonization, proliferation and osteogenic differentiation. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2008, 2, 400-407.	1.3	70
92	Heparin modification of calcium phosphate bone cements for VEGF functionalization. <i>Journal of Biomedical Materials Research - Part A</i> , 2008, 86A, 749-759.	2.1	47
93	Biomaterials based on mineralised collagen – an artificial extracellular bone matrix. , 2007, , 323-328.		2
94	Influence of modified extracellular matrices on Ti6AL4V implants on binding and release of VEGF. <i>Journal of Biomedical Materials Research - Part A</i> , 2006, 79A, 882-894.	2.1	33
95	Molecular characterization of <i>Saccharomyces cerevisiae</i> Sco2p reveals a high degree of redundancy with Sco1p. <i>Yeast</i> , 2002, 19, 909-922.	0.8	33
96	Plastidic (Pho1-type) phosphorylase isoforms in potato ( <i>Solanum tuberosum</i> L.) plants: expression analysis and immunochemical characterization. <i>Planta</i> , 2001, 213, 602-613.	1.6	46
97	The P(174)L Mutation in the Human hSCO1 Gene Affects the Assembly of Cytochrome c Oxidase. <i>Biochemical and Biophysical Research Communications</i> , 2000, 279, 341-347.	1.0	19
98	Mitochondrial copper metabolism in yeast: interaction between Sco1p and Cox2p. <i>FEBS Letters</i> , 2000, 485, 19-24.	1.3	95