

# JÃ¼rgen Groll

## List of Publications by Year in descending order

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Version: 2024-02-01

252  
papers

15,247  
citations

22153

59  
h-index

20961

115  
g-index

261  
all docs

261  
docs citations

261  
times ranked

17217  
citing authors

#	ARTICLE	IF	CITATIONS
1	25th Anniversary Article: Engineering Hydrogels for Biofabrication. <i>Advanced Materials</i> , 2013, 25, 5011-5028.	21.0	1,522
2	Proposal to assess printability of bioinks for extrusion-based bioprinting and evaluation of rheological properties governing bioprintability. <i>Biofabrication</i> , 2017, 9, 044107.	7.1	620
3	Hydrogels in sensing applications. <i>Progress in Polymer Science</i> , 2012, 37, 1678-1719.	24.7	593
4	Strategies and Molecular Design Criteria for 3D Printable Hydrogels. <i>Chemical Reviews</i> , 2016, 116, 1496-1539.	47.7	580
5	Biofabrication: reappraising the definition of an evolving field. <i>Biofabrication</i> , 2016, 8, 013001.	7.1	523
6	Biofabrication: A Guide to Technology and Terminology. <i>Trends in Biotechnology</i> , 2018, 36, 384-402.	9.3	465
7	How smart do biomaterials need to be? A translational science and clinical point of view. <i>Advanced Drug Delivery Reviews</i> , 2013, 65, 581-603.	13.7	429
8	Rapid preparation of flexible porous coordination polymer nanocrystals with accelerated guest adsorption kinetics. <i>Nature Chemistry</i> , 2010, 2, 410-416.	13.6	324
9	Degradable polyester scaffolds with controlled surface chemistry combining minimal protein adsorption with specific bioactivation. <i>Nature Materials</i> , 2011, 10, 67-73.	27.5	298
10	From Shape to Function: The Next Step in Bioprinting. <i>Advanced Materials</i> , 2020, 32, e1906423.	21.0	298
11	Additive manufacturing of scaffolds with sub-micron filaments via melt electrospinning writing. <i>Biofabrication</i> , 2015, 7, 035002.	7.1	296
12	The bioprinting roadmap. <i>Biofabrication</i> , 2020, 12, 022002.	7.1	291
13	Thiol-ene Clickable Gelatin: A Platform Bioink for Multiple 3D Biofabrication Technologies. <i>Advanced Materials</i> , 2017, 29, 1703404.	21.0	248
14	Rapid Uptake of Gold Nanorods by Primary Human Blood Phagocytes and Immunomodulatory Effects of Surface Chemistry. <i>ACS Nano</i> , 2010, 4, 3073-3086.	14.6	214
15	Biofabrication of Cell-Loaded 3D Spider Silk Constructs. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 2816-2820.	13.8	207
16	Biofunctionalized, Ultrathin Coatings of Cross-Linked Star-Shaped Poly(ethylene oxide) Allow Reversible Folding of Immobilized Proteins. <i>Journal of the American Chemical Society</i> , 2004, 126, 4234-4239.	13.7	191
17	Direct 3D powder printing of biphasic calcium phosphate scaffolds for substitution of complex bone defects. <i>Biofabrication</i> , 2014, 6, 015006.	7.1	180
18	Phagocytosis Independent Extracellular Nanoparticle Clearance by Human Immune Cells. <i>Nano Letters</i> , 2010, 10, 59-63.	9.1	168

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19	Dimension-Based Design of Melt Electrowritten Scaffolds. <i>Small</i> , 2018, 14, e1800232.	10.0	167
20	Fiber reinforcement during 3D printing. <i>Materials Letters</i> , 2015, 139, 165-168.	2.6	147
21	Melt Electrospinning Writing of Poly-Hydroxymethylglycolide-caprolactone-Based Scaffolds for Cardiac Tissue Engineering. <i>Advanced Healthcare Materials</i> , 2017, 6, 1700311.	7.6	144
22	Fiber reinforced calcium phosphate cements – On the way to degradable load bearing bone substitutes?. <i>Biomaterials</i> , 2012, 33, 5887-5900.	11.4	142
23	A novel star PEG-derived surface coating for specific cell adhesion. <i>Journal of Biomedical Materials Research - Part A</i> , 2005, 74A, 607-617.	4.0	140
24	Peptide-Functionalized Gold Nanorods Increase Liver Injury in Hepatitis. <i>ACS Nano</i> , 2012, 6, 8767-8777.	14.6	137
25	Melt Electrowriting Allows Tailored Microstructural and Mechanical Design of Scaffolds to Advance Functional Human Myocardial Tissue Formation. <i>Advanced Functional Materials</i> , 2018, 28, 1803151.	14.9	125
26	Patterned melt electrospun substrates for tissue engineering. <i>Biomedical Materials (Bristol)</i> , 2008, 3, 034109.	3.3	123
27	Double printing of hyaluronic acid/poly(glycidol) hybrid hydrogels with poly( $\epsilon$ -caprolactone) for MSC chondrogenesis. <i>Biofabrication</i> , 2017, 9, 044108.	7.1	119
28	Mechanical behavior of a soft hydrogel reinforced with three-dimensional printed microfibre scaffolds. <i>Scientific Reports</i> , 2018, 8, 1245.	3.3	116
29	Magnesium ions and alginate do form hydrogels: a rheological study. <i>Soft Matter</i> , 2012, 8, 4877.	2.7	114
30	Inducing healing-like human primary macrophage phenotypes by 3D hydrogel coated nanofibres. <i>Biomaterials</i> , 2012, 33, 4136-4146.	11.4	112
31	Fibre pulsing during melt electrospinning writing. <i>BioNanoMaterials</i> , 2016, 17, .	1.4	109
32	Precisely defined fiber scaffolds with 40 $\mu$ m porosity induce elongation driven M2-like polarization of human macrophages. <i>Biofabrication</i> , 2020, 12, 025007.	7.1	109
33	Immobilized DNA aptamers used as potent attractors for porcine endothelial precursor cells. <i>Journal of Biomedical Materials Research - Part A</i> , 2008, 84A, 614-621.	4.0	108
34	Surface Grafting of PEO-Based Star-Shaped Molecules for Bioanalytical and Biomedical Applications. <i>Macromolecular Bioscience</i> , 2007, 7, 1010-1023.	4.1	104
35	High definition fibrous poly(2-ethyl-2-oxazoline) scaffolds through melt electrospinning writing. <i>Polymer</i> , 2014, 55, 5017-5023.	3.8	104
36	Comparison of Coatings from Reactive Star Shaped PEG-stat-PPG Prepolymers and Grafted Linear PEG for Biological and Medical Applications. <i>Biomacromolecules</i> , 2005, 6, 956-962.	5.4	103

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37	Myoblast morphology and organization on biochemically micro-patterned hydrogel coatings under cyclic mechanical strain. <i>Biomaterials</i> , 2010, 31, 250-258.	11.4	101
38	Surface Coating Strategies to Prevent Biofilm Formation on Implant Surfaces. <i>International Journal of Artificial Organs</i> , 2010, 33, 646-653.	1.4	97
39	Ice Templating Soft Matter: Fundamental Principles and Fabrication Approaches to Tailor Pore Structure and Morphology and Their Biomedical Applications. <i>Advanced Materials</i> , 2021, 33, e2100091.	21.0	97
40	Fabrication of computationally designed scaffolds by low temperature 3D printing. <i>Biofabrication</i> , 2013, 5, 035012.	7.1	90
41	A Thermogelling Supramolecular Hydrogel with Sponge-Like Morphology as a Cytocompatible Bioink. <i>Biomacromolecules</i> , 2017, 18, 2161-2171.	5.4	90
42	Embedding of Active Proteins and Living Cells in Redox-Sensitive Hydrogels and Nanogels through Enzymatic Cross-Linking. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 3000-3003.	13.8	89
43	Microcontact printing of proteins for neuronal cell guidance. <i>Soft Matter</i> , 2007, 3, 290-298.	2.7	88
44	Melt electrospinning onto cylinders: effects of rotational velocity and collector diameter on morphology of tubular structures. <i>Polymer International</i> , 2015, 64, 1086-1095.	3.1	86
45	Thiol-ene Clickable Poly(glycidol) Hydrogels for Biofabrication. <i>Annals of Biomedical Engineering</i> , 2017, 45, 273-285.	2.5	86
46	Advances in Hybrid Fabrication toward Hierarchical Tissue Constructs. <i>Advanced Science</i> , 2020, 7, 1902953.	11.2	86
47	Additive Manufacturing of a Photo-Cross-Linkable Polymer via Direct Melt Electrospinning Writing for Producing High Strength Structures. <i>Biomacromolecules</i> , 2016, 17, 208-214.	5.4	85
48	Biofunctionalized Polymer Surfaces Exhibiting Minimal Interaction towards Immobilized Proteins. <i>ChemPhysChem</i> , 2004, 5, 552-555.	2.1	84
49	Influence of Microgel Fabrication Technique on Granular Hydrogel Properties. <i>ACS Biomaterials Science and Engineering</i> , 2021, 7, 4269-4281.	5.2	84
50	Synthesis, patterning and applications of star-shaped poly(ethylene glycol) biofunctionalized surfaces. <i>Molecular BioSystems</i> , 2007, 3, 419-430.	2.9	83
51	Melt electrowriting below the critical translation speed to fabricate crimped elastomer scaffolds with non-linear extension behaviour mimicking that of ligaments and tendons. <i>Acta Biomaterialia</i> , 2018, 72, 110-120.	8.3	83
52	Heterotypic Scaffold Design Orchestrates Primary Cell Organization and Phenotypes in Cocultured Small Diameter Vascular Grafts. <i>Advanced Functional Materials</i> , 2019, 29, 1905987.	14.9	82
53	Hyaluronic Acid-Based Bioink Composition Enabling 3D Bioprinting and Improving Quality of Deposited Cartilaginous Extracellular Matrix. <i>Advanced Healthcare Materials</i> , 2020, 9, e2000737.	7.6	81
54	Bone targeting for the treatment of osteoporosis. <i>Journal of Controlled Release</i> , 2012, 161, 198-213.	9.9	79

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55	Strength reliability and in vitro degradation of three-dimensional powder printed strontium-substituted magnesium phosphate scaffolds. <i>Acta Biomaterialia</i> , 2016, 31, 401-411.	8.3	79
56	Influence of Different ECM Mimetic Peptide Sequences Embedded in a Nonfouling Environment on the Specific Adhesion of Human Skin Keratinocytes and Fibroblasts on Deformable Substrates. <i>Small</i> , 2007, 3, 1023-1031.	10.0	76
57	Biocompatible and degradable nanogels via oxidation reactions of synthetic thiomers in inverse miniemulsion. <i>Journal of Polymer Science Part A</i> , 2009, 47, 5543-5549.	2.3	70
58	A new strategy to measure intercellular adhesion forces in mature cell-cell contacts. <i>Scientific Reports</i> , 2017, 7, 46152.	3.3	70
59	Ultrathin Coatings from Isocyanate-Terminated Star PEG Prepolymers: Layer Formation and Characterization. <i>Langmuir</i> , 2005, 21, 1991-1999.	3.5	61
60	Blood cell and plasma protein repellent properties of Star-PEG-modified surfaces. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2006, 17, 985-996.	3.5	60
61	Differences of crystal structure and dynamics between a soft porous nanocrystal and a bulk crystal. <i>Chemical Communications</i> , 2011, 47, 7632.	4.1	60
62	Reinforcement Strategies for Load-Bearing Calcium Phosphate Biocements. <i>Materials</i> , 2015, 8, 2700-2717.	2.9	59
63	Fabrication of individual alginate-TCP scaffolds for bone tissue engineering by means of powder printing. <i>Biofabrication</i> , 2015, 7, 015004.	7.1	56
64	Design and fabrication of melt electrowritten tubes using intuitive software. <i>Materials and Design</i> , 2018, 155, 46-58.	7.0	56
65	Current Treatment Limitations in Age-Related Macular Degeneration and Future Approaches Based on Cell Therapy and Tissue Engineering. <i>Journal of Ophthalmology</i> , 2014, 2014, 1-13.	1.3	53
66	Biofabrication of 3D constructs: fabrication technologies and spider silk proteins as bioinks. <i>Pure and Applied Chemistry</i> , 2015, 87, 737-749.	1.9	53
67	Control of Nanoparticle Release Kinetics from 3D Printed Hydrogel Scaffolds. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 4623-4628.	13.8	53
68	Out-of-Plane 3D-Printed Microfibers Improve the Shear Properties of Hydrogel Composites. <i>Small</i> , 2018, 14, 1702773.	10.0	53
69	Melt Electrowriting of Thermoplastic Elastomers. <i>Macromolecular Rapid Communications</i> , 2018, 39, e1800055.	3.9	52
70	Bone tissue engineering in osteoporosis. <i>Maturitas</i> , 2013, 75, 118-124.	2.4	50
71	Mechanically strong hydrogels with reversible behaviour under cyclic compression with MPa loading. <i>Soft Matter</i> , 2013, 9, 2869.	2.7	49
72	The use of a cartilage decellularized matrix scaffold for the repair of osteochondral defects: the importance of long-term studies in a large animal model. <i>Osteoarthritis and Cartilage</i> , 2017, 25, 413-420.	1.3	49

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73	Tailored Melt Electrowritten Scaffolds for the Generation of Sheet-Like Tissue Constructs from Multicellular Spheroids. <i>Advanced Healthcare Materials</i> , 2019, 8, e1801326.	7.6	48
74	Ultrathin Coatings from Isocyanate Terminated Star PEG Prepolymers: Patterning of Proteins on the Layers. <i>Langmuir</i> , 2005, 21, 3076-3083.	3.5	47
75	Novel Surface Coatings Modulating Eukaryotic Cell Adhesion and Preventing Implant Infection. <i>International Journal of Artificial Organs</i> , 2009, 32, 655-662.	1.4	46
76	Bioprinting and Differentiation of Adipose-Derived Stromal Cell Spheroids for a 3D Breast Cancer-Adipose Tissue Model. <i>Cells</i> , 2021, 10, 803.	4.1	46
77	Thin Film Morphologies of Block Copolymers Complexed with Wedge-Shaped Liquid Crystalline Amphiphilic Molecules. <i>Macromolecules</i> , 2008, 41, 1728-1738.	4.8	45
78	Structure and Properties of Urea-Crosslinked Star Poly[(ethylene oxide)- <i>ran</i> -(propylene oxide)] Hydrogels. <i>Macromolecular Bioscience</i> , 2008, 8, 923-931.	4.1	44
79	Rethinking articular cartilage regeneration based on a 250-year-old statement. <i>Nature Reviews Rheumatology</i> , 2019, 15, 571-572.	8.0	44
80	A versatile biomaterial ink platform for the melt electrowriting of chemically-crosslinked hydrogels. <i>Materials Horizons</i> , 2020, 7, 928-933.	12.2	44
81	Micro- and Nanopatterned Star Poly(ethylene glycol) (PEG) Materials Prepared by UV-Based Imprint Lithography. <i>Langmuir</i> , 2007, 23, 7841-7846.	3.5	43
82	Layer-specific cell differentiation in bi-layered vascular grafts under flow perfusion. <i>Biofabrication</i> , 2020, 12, 015009.	7.1	43
83	Bioactive Electrospun Fibers: Fabrication Strategies and a Critical Review of Surface-Sensitive Characterization and Quantification. <i>Chemical Reviews</i> , 2021, 121, 11194-11237.	47.7	41
84	Effects of nanoparticle surface-coupled peptides, functional endgroups, and charge on intracellular distribution and functionality of human primary reticuloendothelial cells. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2012, 8, 1282-1292.	3.3	40
85	Evolution of Bioengineered Lung Models: Recent Advances and Challenges in Tissue Mimicry for Studying the Role of Mechanical Forces in Cell Biology. <i>Advanced Functional Materials</i> , 2019, 29, 1903114.	14.9	40
86	Melt electrospinning writing of defined scaffolds using polylactide-poly(ethylene glycol) blends with 45S5 bioactive glass particles. <i>Materials Letters</i> , 2017, 205, 257-260.	2.6	39
87	In Vitro and In Vivo Evaluation of a Hydrogel Reservoir as a Continuous Drug Delivery System for Inner Ear Treatment. <i>PLoS ONE</i> , 2014, 9, e104564.	2.5	39
88	Side-Chain Cysteine-Functionalized Poly(2-oxazoline)s for Multiple Peptide Conjugation by Native Chemical Ligation. <i>Biomacromolecules</i> , 2015, 16, 1088-1094.	5.4	38
89	Development of Endothelial Cell Networks in 3D Tissues by Combination of Melt Electrospinning Writing with Cell Accumulation Technology. <i>Small</i> , 2018, 14, 1701521.	10.0	38
90	Mechanical integrin stress and magnetic forces induce biological responses in mesenchymal stem cells which depend on environmental factors. <i>Journal of Cellular Biochemistry</i> , 2010, 111, 1586-1597.	2.6	37

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91	Tissue Mimicry in Morphology and Composition Promotes Hierarchical Matrix Remodeling of Invading Stem Cells in Osteochondral and Meniscus Scaffolds. <i>Advanced Materials</i> , 2018, 30, e1706754.	21.0	37
92	The Impact of Melt Electrowritten Scaffold Design on Porosity Determined by X-Ray Microtomography. <i>Tissue Engineering - Part C: Methods</i> , 2019, 25, 367-379.	2.1	37
93	Stepwise Control of Crosslinking in a One-Pot System for Bioprinting of Low-Density Bioinks. <i>Advanced Healthcare Materials</i> , 2020, 9, e1901544.	7.6	37
94	A Bioinspired in vitro Lung Model to Study Particokinetics of Nano-/Microparticles Under Cyclic Stretch and Air-Liquid Interface Conditions. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 616830.	4.1	37
95	Strong and tough magnesium wire reinforced phosphate cement composites for load-bearing bone replacement. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2013, 20, 36-44.	3.1	36
96	Controlled intramyocardial release of engineered chemokines by biodegradable hydrogels as a treatment approach of myocardial infarction. <i>Journal of Cellular and Molecular Medicine</i> , 2014, 18, 790-800.	3.6	36
97	Melt Electrospinning of Nanofibers from Medical-Grade Poly( $\epsilon$ -Caprolactone) with a Modified Nozzle. <i>Small</i> , 2020, 16, e2003471.	10.0	35
98	Functionalization of electrospun fibers of poly( $\mu$ -caprolactone) with star shaped NCO-poly(ethylene Tj ETQq0 0 0 rgBT /Overlock 10 Tf Materials in Medicine, 2010, 21, 2637-2651.	3.6	34
99	Evaluation of Hydrogels Based on Oxidized Hyaluronic Acid for Bioprinting. <i>Gels</i> , 2018, 4, 82.	4.5	34
100	Tenside-free Preparation of Nanogels with High Functional $\beta$ -Cyclodextrin Content. <i>ACS Nano</i> , 2012, 6, 8087-8093.	14.6	33
101	Improving printability of a thermoresponsive hydrogel biomaterial ink by nanoclay addition. <i>Journal of Materials Science</i> , 2021, 56, 691-705.	3.7	32
102	Nanostructured Ordering of Fluorescent Markers and Single Proteins on Substrates. <i>ChemBioChem</i> , 2005, 6, 1782-1787.	2.6	29
103	Tailored hyaluronic acid hydrogels through hydrophilic prepolymer cross-linkers. <i>Soft Matter</i> , 2010, 6, 618-629.	2.7	29
104	Novel bone wax based on poly(ethylene glycol)-calcium phosphate cement mixtures. <i>Acta Biomaterialia</i> , 2016, 33, 252-263.	8.3	29
105	BMP-7-Loaded PGLA Microspheres as a New Delivery System for the Cultivation of Human Chondrocytes in a Collagen Type I Gel: The Common Nude Mouse Model. <i>International Journal of Artificial Organs</i> , 2010, 33, 45-53.	1.4	28
106	Dual setting $\beta$ -tricalcium phosphate cements. <i>Journal of Materials Science: Materials in Medicine</i> , 2013, 24, 573-581.	3.6	28
107	A Biomimetic, Copolymeric Membrane for Cell-Stretch Experiments with Pulmonary Epithelial Cells at the Air-Liquid Interface. <i>Advanced Functional Materials</i> , 2021, 31, 2004707.	14.9	28
108	Ultrathin Functional Star PEG Coatings for DNA Microarrays. <i>Biomacromolecules</i> , 2005, 6, 1819-1823.	5.4	27

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109	Dual-setting brushiteâ€“silica gel cements. <i>Acta Biomaterialia</i> , 2015, 11, 467-476.	8.3	27
110	Artificial inorganic biohybrids: The functional combination of microorganisms and cells with inorganic materials. <i>Acta Biomaterialia</i> , 2018, 74, 17-35.	8.3	27
111	Polysaccharide based covalently linked multi-membrane hydrogels. <i>Soft Matter</i> , 2012, 8, 1643-1647.	2.7	26
112	Chelate Bonding Mechanism in a Novel Magnesium Phosphate Bone Cement. <i>Journal of the American Ceramic Society</i> , 2015, 98, 694-697.	3.8	26
113	Tethered TGF-Î²1 in a Hyaluronic Acid-Based Bioink for Bioprinting Cartilaginous Tissues. <i>International Journal of Molecular Sciences</i> , 2022, 23, 924.	4.1	26
114	Electrospun, Biofunctionalized Fibers as Tailored in vitro Substrates for Keratinocyte Cell Culture. <i>Macromolecular Bioscience</i> , 2010, 10, 1022-1027.	4.1	25
115	TGF-Î²1-Modified Hyaluronic Acid/Poly(glycidol) Hydrogels for Chondrogenic Differentiation of Human Mesenchymal Stromal Cells. <i>Macromolecular Bioscience</i> , 2018, 18, e1700390.	4.1	25
116	In situ guided tissue regeneration in musculoskeletal diseases and aging. <i>Cell and Tissue Research</i> , 2012, 347, 725-735.	2.9	24
117	Nanogels with High Active Î²-Cyclodextrin Content as Physical Coating System with Sustained Release Properties. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 2300-2311.	8.0	24
118	A Print&ndash;Fuse Strategy for Sacrificial Filaments Enables Biomimetically Structured Perfusible Microvascular Networks with Functional Endothelium Inside 3D Hydrogels. <i>Advanced Materials</i> , 2022, 34, .	21.0	24
119	Ultrathin Coatings with Change in Reactivity over Time Enable Functional In Vitro Networks Of Insect Neurons. <i>Advanced Materials</i> , 2008, 20, 2751-2755.	21.0	23
120	Polymeric Electrospun Scaffolds: Neuregulin Encapsulation and Biocompatibility Studies in a Model of Myocardial Ischemia. <i>Tissue Engineering - Part A</i> , 2015, 21, 1654-1661.	3.1	23
121	DNA Nanogels To Snare Carcinogens: A Bioinspired Generic Approach with High Efficiency. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 12210-12213.	13.8	23
122	Via precise interface engineering towards bioinspired composites with improved 3D printing processability and mechanical properties. <i>Journal of Materials Chemistry B</i> , 2017, 5, 5037-5047.	5.8	23
123	A Bone Glue with Sustained Adhesion under Wet Conditions. <i>Advanced Healthcare Materials</i> , 2017, 6, 1600902.	7.6	23
124	Permanent Hydrophilization and Generic Bioactivation of Melt Electrowritten Scaffolds. <i>Advanced Healthcare Materials</i> , 2019, 8, e1801544.	7.6	23
125	Translation of Collagen Ultrastructure to Biomaterial Fabrication for Materialâ€“Independent but Highly Efficient Topographic Immunomodulation. <i>Advanced Materials</i> , 2021, 33, e2101228.	21.0	23
126	Phosphorylation of RS1 (<i>RSC1A1</i>) Steers Inhibition of Different Exocytotic Pathways for Glucose Transporter SGLT1 and Nucleoside Transporter CNT1, and an RS1-Derived Peptide Inhibits Glucose Absorption. <i>Molecular Pharmacology</i> , 2016, 89, 118-132.	2.3	22



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127	Multimodal Bioactivation of Hydrophilic Electrospun Nanofibers Enables Simultaneous Tuning of Cell Adhesivity and Immunomodulatory Effects. <i>Advanced Functional Materials</i> , 2017, 27, 1702903.	14.9	22
128	Platelet lysate outperforms FCS and human serum for co-culture of primary human macrophages and hMSCs. <i>Scientific Reports</i> , 2019, 9, 3533.	3.3	20
129	Isotropic Versus Bipolar Functionalized Biomimetic Artificial Basement Membranes and Their Evaluation in Long-Term Human Cell Co-Culture. <i>Advanced Healthcare Materials</i> , 2016, 5, 1939-1948.	7.6	19
130	An in vitro and in vivo study of peptide-functionalized nanoparticles for brain targeting: The importance of selective blood-brain barrier uptake. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2017, 13, 1289-1300.	3.3	19
131	P2RX7 genotype association in severe sepsis identified by a novel Multi-Individual Array for rapid screening and replication of risk SNPs. <i>Clinica Chimica Acta</i> , 2012, 413, 39-47.	1.1	18
132	In vitro ion adsorption and cytocompatibility of dicalcium phosphate ceramics. <i>Biomaterials Research</i> , 2017, 21, 10.	6.9	18
133	Catechol-modified poly(oxazoline)s with tunable degradability facilitate cell invasion and lateral cartilage integration. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 80, 757-769.	5.8	18
134	Magnesium Phosphate Cement as Mineral Bone Adhesive. <i>Materials</i> , 2019, 12, 3819.	2.9	18
135	A comparative analysis of detachment forces and energies in initial and mature cell-material interaction. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 190, 110894.	5.0	18
136	Bleaching of plasmon-resonance absorption of gold nanorods decreases efficiency of cell destruction. <i>Journal of Biomedical Optics</i> , 2012, 17, 058003.	2.6	17
137	Mild Oxidation of Thiofunctional Polymers to Cytocompatible and Stimuli-Sensitive Hydrogels and Nanogels. <i>Macromolecular Bioscience</i> , 2013, 13, 470-482.	4.1	17
138	Chemical characterization of hydroxyapatite obtained by wet chemistry in the presence of V, Co, and Cu ions. <i>Materials Science and Engineering C</i> , 2013, 33, 1654-1661.	7.3	17
139	Unidirectional Control of Anisotropic Wetting through Surface Modification of PDMS Microstructures. <i>Langmuir</i> , 2013, 29, 12331-12336.	3.5	17
140	The Next Step in Biomimetic Material Design: Poly-LacNAc-Mediated Reversible Exposure of Extra Cellular Matrix Components. <i>Advanced Healthcare Materials</i> , 2013, 2, 306-311.	7.6	17
141	Cysteine-Functional Polymers via Thiol-Ene Conjugation. <i>Macromolecular Rapid Communications</i> , 2015, 36, 472-476.	3.9	17
142	Anisotropic Cryostructured Collagen Scaffolds for Efficient Delivery of RhBMP-2 and Enhanced Bone Regeneration. <i>Materials</i> , 2019, 12, 3105.	2.9	17
143	Bioprinting with bioactive alginate dialdehyde-gelatin (ADA-GEL) composite bioinks: Time-dependent in-situ crosslinking via addition of calcium-silicate particles tunes in vitro stability of 3D bioprinted constructs. <i>Bioprinting</i> , 2022, 26, e00200.	5.8	17
144	A Step Towards Clinical Translation of Biofabrication. <i>Trends in Biotechnology</i> , 2016, 34, 356-357.	9.3	16

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145	A novel human artery model to assess the magnetic accumulation of SPIONs under flow conditions. <i>Scientific Reports</i> , 2017, 7, 42314.	3.3	16
146	Activated Polyhydroxyalkanoate Meshes Prevent Bacterial Adhesion and Biofilm Development in Regenerative Medicine Applications. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 442.	4.1	16
147	Differential cellular responses to adhesive interactions with galectin-8- and fibronectin-coated substrates. <i>Journal of Cell Science</i> , 2021, 134, .	2.0	16
148	Actin cytoskeleton deregulation confers midostaurin resistance in FLT3-mutant acute myeloid leukemia. <i>Communications Biology</i> , 2021, 4, 799.	4.4	16
149	A hydrogel-based versatile screening platform for specific biomolecular recognition in a well plate format. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 403, 517-526.	3.7	15
150	Electrochemically assisted deposition of strontium modified magnesium phosphate on titanium surfaces. <i>Materials Science and Engineering C</i> , 2016, 67, 65-71.	7.3	15
151	Simultaneous structuring and mineralization of silk fibroin scaffolds. <i>Journal of Tissue Engineering</i> , 2018, 9, 204173141878850.	5.5	15
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