

# Carsten Werner

## List of Publications by Year in descending order

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465  
papers

20,674  
citations

11608

70  
h-index

20307

116  
g-index

498  
all docs

498  
docs citations

498  
times ranked

23044  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mesenchymal Stem Cells Can Be Differentiated Into Endothelial Cells In Vitro. <i>Stem Cells</i> , 2004, 22, 377-384.	1.4	1,143
2	Self-assembled monolayers with different terminating groups as model substrates for cell adhesion studies. <i>Biomaterials</i> , 2004, 25, 2721-2730.	5.7	663
3	A star-PEGâ€“heparin hydrogel platform to aid cell replacement therapies for neurodegenerative diseases. <i>Biomaterials</i> , 2009, 30, 5049-5060.	5.7	272
4	Extended Electrokinetic Characterization of Flat Solid Surfaces. <i>Journal of Colloid and Interface Science</i> , 1998, 208, 329-346.	5.0	259
5	Current strategies towards hemocompatible coatings. <i>Journal of Materials Chemistry</i> , 2007, 17, 3376.	6.7	240
6	Glycosaminoglycan-based hydrogels capture inflammatory chemokines and rescue defective wound healing in mice. <i>Science Translational Medicine</i> , 2017, 9, .	5.8	239
7	Blood coagulation on biomaterials requires the combination of distinct activation processes. <i>Biomaterials</i> , 2009, 30, 4447-4456.	5.7	233
8	Maleic Anhydride CopolymersA Versatile Platform for Molecular Biosurface Engineering. <i>Biomacromolecules</i> , 2003, 4, 1072-1079.	2.6	223
9	Electrokinetic Measurements Reveal Interfacial Charge at Polymer Films Caused by Simple Electrolyte Ions. <i>Journal of Physical Chemistry B</i> , 2001, 105, 8544-8549.	1.2	219
10	Smart Skin Patterns Protect Springtails. <i>PLoS ONE</i> , 2011, 6, e25105.	1.1	210
11	Hydroxide and hydronium ion adsorption â€” A survey. <i>Current Opinion in Colloid and Interface Science</i> , 2010, 15, 196-202.	3.4	209
12	Thermo-Responsive PNiPAAm-g-PEG Films for Controlled Cell Detachment. <i>Biomacromolecules</i> , 2003, 4, 1733-1739.	2.6	203
13	Wetting Resistance at Its Topographical Limit: The Benefit of Mushroom and Serif T Structures. <i>Langmuir</i> , 2013, 29, 1100-1112.	1.6	202
14	Tightly anchored tissue-mimetic matrices as instructive stem cell microenvironments. <i>Nature Methods</i> , 2013, 10, 788-794.	9.0	195
15	The springtail cuticle as a blueprint for omniphobic surfaces. <i>Chemical Society Reviews</i> , 2016, 45, 323-341.	18.7	191
16	Functional immobilization of signaling proteins enables control of stem cell fate. <i>Nature Methods</i> , 2008, 5, 645-650.	9.0	190
17	FGF-2 and VEGF functionalization of starPEGâ€“heparin hydrogels to modulate biomolecular and physical cues of angiogenesis. <i>Biomaterials</i> , 2010, 31, 7985-7994.	5.7	187
18	Sperm Micromotors for Cargo Delivery through Flowing Blood. <i>ACS Nano</i> , 2020, 14, 2982-2993.	7.3	181

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19	Glycosaminoglycan-based hydrogels to modulate heterocellular communication in in vitro angiogenesis models. <i>Scientific Reports</i> , 2014, 4, 4414.	1.6	179
20	Multi-parametric hydrogels support 3D in vitro bioengineered microenvironment models of tumour angiogenesis. <i>Biomaterials</i> , 2015, 53, 609-620.	5.7	173
21	Flow characteristics of water through a microchannel between two parallel plates with electrokinetic effects. <i>International Journal of Heat and Fluid Flow</i> , 1997, 18, 489-496.	1.1	172
22	Adsorption-induced conformational changes of proteins onto ceramic particles: Differential scanning calorimetry and FTIR analysis. <i>Journal of Colloid and Interface Science</i> , 2006, 299, 56-69.	5.0	161
23	A practical guide to quantify cell adhesion using single-cell force spectroscopy. <i>Methods</i> , 2013, 60, 169-178.	1.9	161
24	Glycosaminoglycan-Based Biohybrid Hydrogels: A Sweet and Smart Choice for Multifunctional Biomaterials. <i>Advanced Materials</i> , 2016, 28, 8861-8891.	11.1	156
25	Tailored Poly(2-oxazoline) Polymer Brushes to Control Protein Adsorption and Cell Adhesion. <i>Macromolecular Bioscience</i> , 2012, 12, 926-936.	2.1	153
26	Sustained delivery of SDF-1 $\beta$ from heparin-based hydrogels to attract circulating pro-angiogenic cells. <i>Biomaterials</i> , 2012, 33, 4792-4800.	5.7	152
27	Dissociation of Surface Functional Groups and Preferential Adsorption of Ions on Self-Assembled Monolayers Assessed by Streaming Potential and Streaming Current Measurements. <i>Langmuir</i> , 2001, 17, 4304-4311.	1.6	143
28	Defined Polymer-Peptide Conjugates to Form Cell-Instructive starPEG-Heparin Matrices In Situ. <i>Advanced Materials</i> , 2013, 25, 2606-2610.	11.1	141
29	Biologically Inspired Omniphobic Surfaces by Reverse Imprint Lithography. <i>Advanced Materials</i> , 2014, 26, 2029-2033.	11.1	139
30	Biofabricated soft network composites for cartilage tissue engineering. <i>Biofabrication</i> , 2017, 9, 025014.	3.7	135
31	Characterization of oxide layers on Ti6Al4V and titanium by streaming potential and streaming current measurements. <i>Colloids and Surfaces B: Biointerfaces</i> , 2002, 26, 387-395.	2.5	134
32	Bio-responsive polymer hydrogels homeostatically regulate blood coagulation. <i>Nature Communications</i> , 2013, 4, 2168.	5.8	132
33	Discovery of 505-million-year old chitin in the basal demosponge <i>Vauxia gracilentia</i> . <i>Scientific Reports</i> , 2013, 3, 3497.	1.6	123
34	The growth and differentiation of mesenchymal stem and progenitor cells cultured on aligned collagen matrices. <i>Biomaterials</i> , 2009, 30, 5950-5958.	5.7	118
35	3D Culture Method for Alzheimer's Disease Modeling Reveals Interleukin-4 Rescues A $\beta$ <sup>242</sup> -Induced Loss of Human Neural Stem Cell Plasticity. <i>Developmental Cell</i> , 2018, 46, 85-101.e8.	3.1	118
36	Dual independent delivery of pro-angiogenic growth factors from starPEG-heparin hydrogels. <i>Journal of Controlled Release</i> , 2011, 156, 28-36.	4.8	116

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37	The role of the interplay between polymer architecture and bacterial surface properties on the microbial adhesion to polyoxazoline-based ultrathin films. <i>Biomaterials</i> , 2010, 31, 9462-9472.	5.7	114
38	Low pressure plasma treatment of poly(3-hydroxybutyrate): Toward tailored polymer surfaces for tissue engineering scaffolds. <i>Journal of Biomedical Materials Research Part B</i> , 2002, 59, 632-638.	3.0	112
39	3D extracellular matrix interactions modulate tumour cell growth, invasion and angiogenesis in engineered tumour microenvironments. <i>Acta Biomaterialia</i> , 2016, 36, 73-85.	4.1	112
40	In vitro hemocompatibility of self-assembled monolayers displaying various functional groups. <i>Biomaterials</i> , 2005, 26, 6547-6557.	5.7	108
41	Surface modification of poly(hydroxybutyrate) films to control cell-matrix adhesion. <i>Biomaterials</i> , 2007, 28, 28-37.	5.7	105
42	Aligned fibrillar collagen matrices obtained by shear flow deposition. <i>Biomaterials</i> , 2008, 29, 3888-3895.	5.7	105
43	Thermo-responsive poly(NiPAAm-co- $\alpha$ -DEGMA) substrates for gentle harvest of human corneal endothelial cell sheets. <i>Journal of Biomedical Materials Research - Part A</i> , 2007, 80A, 1003-1010.	2.1	103
44	Electrokinetic surface characterization of biomedical polymers – a survey. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 1999, 159, 519-529.	2.3	101
45	Electrokinetic Characterization of Oligo- and Poly(ethylene glycol)-Terminated Self-Assembled Monolayers on Gold and Glass Surfaces. <i>Langmuir</i> , 2003, 19, 7380-7385.	1.6	101
46	Influence of Three-Dimensional Roughness on Pressure-Driven Flow Through Microchannels. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2003, 125, 871-879.	0.8	101
47	Electrostatic Interactions Modulate the Conformation of Collagen I. <i>Biophysical Journal</i> , 2007, 92, 2108-2119.	0.2	100
48	Heparin desulfation modulates VEGF release and angiogenesis in diabetic wounds. <i>Journal of Controlled Release</i> , 2015, 220, 79-88.	4.8	100
49	Multifunctional silk-heparin biomaterials for vascular tissue engineering applications. <i>Biomaterials</i> , 2014, 35, 83-91.	5.7	98
50	Insights on structural variations of protein adsorption layers on hydrophobic fluorohydrocarbon polymers gained by spectroscopic ellipsometry (part I). <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 1999, 156, 3-17.	2.3	95
51	Streaming potential and streaming current measurements at planar solid/liquid interfaces for simultaneous determination of zeta potential and surface conductivity. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2001, 192, 205-213.	2.3	95
52	Nogo-A targeted therapy promotes vascular repair and functional recovery following stroke. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 14270-14279.	3.3	94
53	Electrokinetic Transport through Rough Microchannels. <i>Analytical Chemistry</i> , 2003, 75, 5747-5758.	3.2	92
54	Tunable nano-replication to explore the omniphobic characteristics of springtail skin. <i>NPG Asia Materials</i> , 2013, 5, e37-e37.	3.8	91

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55	Multilayer hydrogel coatings to combine hemocompatibility and antimicrobial activity. <i>Biomaterials</i> , 2015, 56, 198-205.	5.7	91
56	An Improved Method of Determining the $\zeta$ -Potential and Surface Conductance. <i>Journal of Colloid and Interface Science</i> , 2000, 232, 186-197.	5.0	86
57	3D Microenvironment Stiffness Regulates Tumor Spheroid Growth and Mechanics via p21 and ROCK. <i>Advanced Biology</i> , 2019, 3, e1900128.	3.0	84
58	Heparin intercalation into reconstituted collagen I fibrils: Impact on growth kinetics and morphology. <i>Biomaterials</i> , 2008, 29, 1-14.	5.7	82
59	The blood compatibility challenge. Part 3: Material associated activation of blood cascades and cells. <i>Acta Biomaterialia</i> , 2019, 94, 25-32.	4.1	81
60	Microwave CO <sub>2</sub> plasma-initiated vapour phase graft polymerization of acrylic acid onto polytetrafluoroethylene for immobilization of human thrombomodulin. <i>Biomaterials</i> , 1997, 18, 1139-1145.	5.7	80
61	Periosteum tissue engineering in an orthotopic in vivo platform. <i>Biomaterials</i> , 2017, 121, 193-204.	5.7	80
62	An attempt to explain bimodal behaviour of the sapphire c-plane electrolyte interface. <i>Advances in Colloid and Interface Science</i> , 2010, 157, 61-74.	7.0	79
63	Diversity and potential correlations to the function of Collembola cuticle structures. <i>Zoomorphology</i> , 2013, 132, 183-195.	0.4	79
64	Gene-Expression Profiling of CD34+Hematopoietic Cells Expanded in a Collagen I Matrix. <i>Stem Cells</i> , 2006, 24, 494-500.	1.4	78
65	Matrix elasticity regulates the secretory profile of human bone marrow-derived multipotent mesenchymal stromal cells (MSCs). <i>Biochemical and Biophysical Research Communications</i> , 2009, 389, 663-667.	1.0	78
66	The impact of structure dimensions on initial bacterial adhesion. <i>Biomaterials Science</i> , 2016, 4, 1074-1078.	2.6	78
67	Standardized microgel beads as elastic cell mechanical probes. <i>Journal of Materials Chemistry B</i> , 2018, 6, 6245-6261.	2.9	78
68	The blood compatibility challenge. Part 4: Surface modification for hemocompatible materials: Passive and active approaches to guide blood-material interactions. <i>Acta Biomaterialia</i> , 2019, 94, 33-43.	4.1	78
69	Surface characterisation of NH <sub>3</sub> plasma treated polyamide 6 foils. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2001, 195, 81-95.	2.3	77
70	Impact of processing parameters on the haemocompatibility of Bombyx mori silk films. <i>Biomaterials</i> , 2012, 33, 1017-1023.	5.7	74
71	Covalently immobilized thrombomodulin inhibits coagulation and complement activation of artificial surfaces in vitro. <i>Biomaterials</i> , 2004, 25, 5101-5113.	5.7	73
72	The Ion Sensitivity of Surface Conductive Single Crystalline Diamond. <i>Journal of the American Chemical Society</i> , 2007, 129, 1287-1292.	6.6	73

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73	Modulating Biofunctional starPEG Heparin Hydrogels by Varying Size and Ratio of the Constituents. <i>Polymers</i> , 2011, 3, 602-620.	2.0	73
74	Tissue-engineered 3D tumor angiogenesis models: Potential technologies for anti-cancer drug discovery. <i>Advanced Drug Delivery Reviews</i> , 2014, 79-80, 30-39.	6.6	73
75	Surface characterization of hemodialysis membranes based on streaming potential measurements. <i>Journal of Biomaterials Science, Polymer Edition</i> , 1996, 7, 61-76.	1.9	71
76	Design and evaluation of novel blood incubation systems for in vitro hemocompatibility assessment of planar solid surfaces. , 2003, 66B, 379-390.		70
77	Charging and structure of zwitterionic supported bilayer lipid membranes studied by streaming current measurements, fluorescence microscopy, and attenuated total reflection Fourier transform infrared spectroscopy. <i>Biointerphases</i> , 2009, 4, 1-6.	0.6	70
78	In vitro hemocompatibility of albumin- $\alpha$ -heparin multilayer coatings on polyethersulfone prepared by the layer-by-layer technique. <i>Journal of Biomedical Materials Research - Part A</i> , 2006, 76A, 681-689.	2.1	69
79	Effect of human parathyroid hormone hPTH (1-34) applied at different regimes on fracture healing and muscle in ovariectomized and healthy rats. <i>Bone</i> , 2010, 47, 480-492.	1.4	69
80	Extracellular matrix deposition of bone marrow stroma enhanced by macromolecular crowding. <i>Biomaterials</i> , 2015, 73, 60-69.	5.7	69
81	Modification of poly(octadecene-alt-maleic anhydride) films by reaction with functional amines. <i>Journal of Applied Polymer Science</i> , 2003, 87, 1255-1266.	1.3	68
82	Intrinsic charge and Donnan potentials of grafted polyelectrolyte layers determined by surface conductivity data. <i>Journal of Colloid and Interface Science</i> , 2004, 274, 309-318.	5.0	68
83	Polarization of Human Hematopoietic Progenitors During Contact with Multipotent Mesenchymal Stromal Cells: Effects on Proliferation and Clonogenicity. <i>Stem Cells and Development</i> , 2006, 15, 815-829.	1.1	66
84	Engineered matrix coatings to modulate the adhesion of CD133+ human hematopoietic progenitor cells. <i>Biomaterials</i> , 2007, 28, 836-843.	5.7	66
85	Geometry-Driven Cell Organization Determines Tissue Growths in Scaffold Pores: Consequences for Fibronectin Organization. <i>PLoS ONE</i> , 2013, 8, e73545.	1.1	66
86	The multi-layered protective cuticle of Collembola: a chemical analysis. <i>Journal of the Royal Society Interface</i> , 2014, 11, 20140619.	1.5	65
87	Macroporous StarPEG-Heparin Cryogels. <i>Biomacromolecules</i> , 2012, 13, 2349-2358.	2.6	64
88	Thermo-Reversible Swelling of Thin Hydrogel Films Immobilized by Low-Pressure Plasma. <i>Langmuir</i> , 2004, 20, 10107-10114.	1.6	63
89	Electrokinetics of Diffuse Soft Interfaces. IV. Analysis of Streaming Current Measurements at Thermo-responsive Thin Films. <i>Langmuir</i> , 2009, 25, 10691-10703.	1.6	63
90	Antifouling potential of Subtilisin A immobilized onto maleic anhydride copolymer thin films. <i>Biofouling</i> , 2009, 25, 505-516.	0.8	63

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91	A three-dimensional <i>in vivo</i> tri-culture model mimics cell-cell interactions between acute myeloid leukemia and the vascular niche. <i>Haematologica</i> , 2017, 102, 1215-1226.	1.7	63
92	A novel, biased-like SDF-1 derivative acts synergistically with starPEG-based heparin hydrogels and improves eEPC migration <i>in vitro</i> . <i>Journal of Controlled Release</i> , 2012, 162, 68-75.	4.8	62
93	Minimal Peptide Motif for Non-covalent Peptide-Heparin Hydrogels. <i>Journal of the American Chemical Society</i> , 2013, 135, 2919-2922.	6.6	62
94	Tackling Cell Transplantation Anoikis: An Injectable, Shape Memory Cryogel Microcarrier Platform Material for Stem Cell and Neuronal Cell Growth. <i>Small</i> , 2015, 11, 5047-5053.	5.2	62
95	Highly Conductive, Stretchable, and Cell-Adhesive Hydrogel by Nanoclay Doping. <i>Small</i> , 2019, 15, e1901406.	5.2	62
96	Durable surface modification of poly(tetrafluoroethylene) by low pressure H <sub>2</sub> O plasma treatment followed by acrylic acid graft polymerization. <i>Colloids and Surfaces B: Biointerfaces</i> , 2002, 24, 63-71.	2.5	61
97	In Vitro Reconstitution of Fibrillar Collagen Type I Assemblies at Reactive Polymer Surfaces. <i>Biomacromolecules</i> , 2004, 5, 1340-1350.	2.6	61
98	Covalent Immobilization of Cellulose Layers onto Maleic Anhydride Copolymer Thin Films. <i>Biomacromolecules</i> , 2005, 6, 1628-1634.	2.6	61
99	Using Mean Field Theory to Guide Biofunctional Materials Design. <i>Advanced Functional Materials</i> , 2012, 22, 1391-1398.	7.8	61
100	Polymer Hydrogels to Guide Organotypic and Organoid Cultures. <i>Advanced Functional Materials</i> , 2020, 30, 2000097.	7.8	61
101	Biocompatibility assessment of silk nanoparticles: hemocompatibility and internalization by human blood cells. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2017, 13, 2633-2642.	1.7	60
102	Biocompatibility and surface structure of chemically modified immunisolating alginate-PLL capsules. <i>Journal of Biomedical Materials Research - Part A</i> , 2003, 67A, 1219-1227.	2.1	59
103	Fibronectin anchorage to polymer substrates controls the initial phase of endothelial cell adhesion. <i>Journal of Biomedical Materials Research - Part A</i> , 2003, 67A, 647-657.	2.1	59
104	Electromechanical-Assisted Training for Walking After Stroke. <i>Stroke</i> , 2013, 44, e127-8.	1.0	59
105	Hematopoietic stem and progenitor cells in adhesive microcavities. <i>Integrative Biology (United Kingdom)</i> 10.1039/c3ib27006a	0.6	58
106	Two-tier hydrogel degradation to boost endothelial cell morphogenesis. <i>Biomaterials</i> , 2011, 32, 9649-9657.	5.7	58
107	A Novel, Low-Volume Method for Organ Culture of Embryonic Kidneys That Allows Development of Cortico-Medullary Anatomical Organization. <i>PLoS ONE</i> , 2010, 5, e10550.	1.1	57
108	Enzymes for Antifouling Strategies. <i>Journal of Adhesion Science and Technology</i> , 2011, 25, 2317-2344.	1.4	57

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109	Liquid-fluid contact angle measurements on hydrophilic cellulosic materials. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 1996, 116, 79-91.	2.3	56
110	Impedance spectroscopy studies of interfacial acid-base reactions of self-assembled monolayers. <i>Journal of Electroanalytical Chemistry</i> , 2003, 540, 145-151.	1.9	56
111	Electrohydrodynamics of Soft Polyelectrolyte Multilayers: Point of Zero-Streaming Current. <i>Langmuir</i> , 2011, 27, 10739-10752.	1.6	56
112	Intrafibrillar, bone-mimetic collagen mineralization regulates breast cancer cell adhesion and migration. <i>Biomaterials</i> , 2019, 198, 95-106.	5.7	56
113	Stability and ageing of plasma treated poly(tetrafluoroethylene) surfaces. <i>Colloids and Surfaces B: Biointerfaces</i> , 2002, 25, 313-324.	2.5	55
114	Permanent surface modification by electron-beam-induced grafting of hydrophilic polymers to PVDF membranes. <i>RSC Advances</i> , 2013, 3, 22518.	1.7	55
115	TGF $\beta$ 2 functionalized starPEG-heparin hydrogels modulate human dermal fibroblast growth and differentiation. <i>Acta Biomaterialia</i> , 2015, 25, 65-75.	4.1	55
116	Fluorination of poly(dimethylsiloxane) surfaces by low pressure CF4 plasma - physicochemical and antifouling properties. <i>EXPRESS Polymer Letters</i> , 2009, 3, 70-83.	1.1	53
117	On the use of electrokinetics for unraveling charging and structure of soft planar polymer films. <i>Current Opinion in Colloid and Interface Science</i> , 2013, 18, 83-92.	3.4	53
118	Surface Characterization of Polymers for Medical Devices. <i>International Journal of Artificial Organs</i> , 1999, 22, 160-176.	0.7	52
119	Fibronectin Displacement at Polymer Surfaces. <i>Langmuir</i> , 2005, 21, 4571-4577.	1.6	52
120	Modular StarPEG-Heparin Gels with Bifunctional Peptide Linkers. <i>Macromolecular Rapid Communications</i> , 2010, 31, 1529-1533.	2.0	52
121	Electrokinetic microslit experiments to analyse the charge formation at solid/liquid interfaces. <i>Microfluidics and Nanofluidics</i> , 2006, 2, 367-379.	1.0	51
122	StarPEG-Heparin Hydrogels to Protect and Sustainably Deliver IL-4. <i>Advanced Healthcare Materials</i> , 2016, 5, 3157-3164.	3.9	51
123	Cryogel-supported stem cell factory for customized sustained release of bispecific antibodies for cancer immunotherapy. <i>Scientific Reports</i> , 2017, 7, 42855.	1.6	51
124	Electrokinetic phenomena at grafted polyelectrolyte layers. <i>Journal of Colloid and Interface Science</i> , 2005, 286, 761-773.	5.0	50
125	The microscopy cell (MicCell), a versatile modular flowthrough system for cell biology, biomaterial research, and nanotechnology. <i>Microfluidics and Nanofluidics</i> , 2006, 2, 21-36.	1.0	50
126	In vitro blood reactivity to hydroxylated and non-hydroxylated polymer surfaces. <i>Biomaterials</i> , 2007, 28, 3617-3625.	5.7	50



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127	Immobilization of growth factors on solid supports for the modulation of stem cell fate. <i>Nature Protocols</i> , 2010, 5, 1042-1050.	5.5	50
128	Enzymatically degradable heparin-polyethylene glycol gels with controlled mechanical properties. <i>Chemical Communications</i> , 2010, 46, 1141-1143.	2.2	50
129	Hollow fibers made from a poly(3-hydroxybutyrate)/poly- $\epsilon$ -caprolactone blend. <i>EXPRESS Polymer Letters</i> , 2011, 5, 643-652.	1.1	50
130	A Positively Charged Surface Triggers Coagulation Activation Through Factor VII Activating Protease (FSAP). <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 40107-40116.	4.0	50
131	Functional Films of Maleic Anhydride Copolymers under Physiological Conditions. <i>Macromolecular Bioscience</i> , 2005, 5, 890-895.	2.1	49
132	In Situ Study of the Thermoresponse Behavior of Micropatterned Hydrogel Films by Imaging Ellipsometry. <i>Langmuir</i> , 2005, 21, 2317-2322.	1.6	49
133	On the applicability of the Brinkman equation in soft surface electrokinetics. <i>Journal of Colloid and Interface Science</i> , 2010, 350, 1-4.	5.0	48
134	Interrelations between charging, structure and electrokinetics of nanometric polyelectrolyte films. <i>Journal of Colloid and Interface Science</i> , 2011, 362, 439-449.	5.0	48
135	Influence of the three-dimensional heterogeneous roughness on electrokinetic transport in microchannels. <i>Journal of Colloid and Interface Science</i> , 2004, 280, 527-536.	5.0	47
136	Musculoskeletal Response to Whole-Body Vibration During Fracture Healing in Intact and Ovariectomized Rats. <i>Calcified Tissue International</i> , 2010, 87, 168-180.	1.5	47
137	Combined influence of biophysical and biochemical cues on maintenance and proliferation of hematopoietic stem cells. <i>Biomaterials</i> , 2017, 138, 108-117.	5.7	47
138	Polyacrylamide Bead Sensors for in vivo Quantification of Cell-Scale Stress in Zebrafish Development. <i>Scientific Reports</i> , 2019, 9, 17031.	1.6	47
139	Quantitative analysis of immobilized proteins and protein mixtures by amino acid analysis. <i>Journal of Chromatography A</i> , 2003, 1005, 113-122.	1.8	46
140	Endogenous bone morphogenetic proteins in human bone marrow-derived multipotent mesenchymal stromal cells. <i>European Journal of Cell Biology</i> , 2009, 88, 257-271.	1.6	46
141	Directed Growth of Adult Human White Matter Stem Cell-Derived Neurons on Aligned Fibrillar Collagen. <i>Tissue Engineering - Part A</i> , 2010, 16, 1103-1113.	1.6	46
142	Design and Validation of a Bioreactor for Simulating the Cardiac Niche: A System Incorporating Cyclic Stretch, Electrical Stimulation, and Constant Perfusion. <i>Tissue Engineering - Part A</i> , 2013, 19, 403-414.	1.6	46
143	In vitro blood compatibility of polymeric biomaterials through covalent immobilization of an amidine derivative. <i>Biomaterials</i> , 2004, 25, 3493-3501.	5.7	45
144	Growth factor delivery from hydrogel particle aggregates to promote tubular regeneration after acute kidney injury. <i>Journal of Controlled Release</i> , 2013, 167, 248-255.	4.8	45

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145	Enhanced targeting of invasive glioblastoma cells by peptide-functionalized gold nanorods in hydrogel-based 3D cultures. <i>Acta Biomaterialia</i> , 2017, 58, 12-25.	4.1	45
146	Electrokinetics of a Poly(N-isopropylacrylamid-co-carboxyacrylamid) Soft Thin Film: Evidence of Diffuse Segment Distribution in the Swollen State. <i>Langmuir</i> , 2010, 26, 18169-18181.	1.6	44
147	Polymeric Biomaterials for Stem Cell Bioengineering. <i>Macromolecular Rapid Communications</i> , 2012, 33, 1420-1431.	2.0	44
148	Ionization Characteristics and Structural Transitions of Alternating Maleic Acid Copolymer Films. <i>Langmuir</i> , 2003, 19, 5787-5793.	1.6	43
149	Biohybrid Networks of Selectively Desulfated Glycosaminoglycans for Tunable Growth Factor Delivery. <i>Biomacromolecules</i> , 2014, 15, 4439-4446.	2.6	43
150	Oxygen-Producing Gellan Gum Hydrogels for Dual Delivery of Either Oxygen or Peroxide with Doxorubicin. <i>ACS Biomaterials Science and Engineering</i> , 2017, 3, 787-792.	2.6	43
151	Interfacial charge of organic thin films characterized by streaming potential and streaming current measurements. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2001, 195, 97-102.	2.3	42
152	Modulated Fibronectin Anchorage at Polymer Substrates Controls Angiogenesis. <i>Tissue Engineering</i> , 2004, 10, 841-848.	4.9	42
153	Noncovalent Hydrogel Beads as Microcarriers for Cell Culture. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 3962-3966.	7.2	42
154	High resolution bioprinting of multi-component hydrogels. <i>Biofabrication</i> , 2019, 11, 045008.	3.7	42
155	Dynamic Alterations of Fibronectin Layers on Copolymer Substrates with Graded Physicochemical Characteristics. <i>Langmuir</i> , 2004, 20, 2928-2933.	1.6	41
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