Birgit Finke

List of Publications by Year
in descending order

43 papers	995 citations	471509 17 h-index	434195 31 g-index
44 all docs	44 docs citations	44 times ranked	1183 citing authors

#	Article	IF	Citations
1	Local Inflammatory Response after Intramuscularly Implantation of Anti-Adhesive Plasma-Fluorocarbon-Polymer Coated Ti6Al4V Discs in Rats. Polymers, 2021, 13, 2684.	4.5	2
2	Poly (hexamethylene biguanide), adsorbed onto Tiâ€Alâ€V alloys, kills slimeâ€producing Staphylococci and Pseudomonas aeruginosa without inhibiting SaOsâ€2 cell differentiation. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2020, 108, 1801-1813.	3.4	6
3	Plasma Polymerized Allylamineâ€"The Unique Cell-Attractive Nanolayer for Dental Implant Materials. Polymers, 2019, 11, 1004.	4.5	11
4	Tuning of the electrochemical properties of transparent fluorine-doped tin oxide electrodes by microwave pulsed-plasma polymerized allylamine. Electrochimica Acta, 2019, 313, 432-440.	5.2	17
5	The in vivo inflammatory and foreign body giant cell response against different poly(<scp>l</scp>â€lactideâ€coâ€<scp>d/l</scp>â€lactide) implants is primarily determined by material morphology rather than surface chemistry. Journal of Biomedical Materials Research - Part A, 2018, 106, 2726-2734.	4.0	17
6	Enhanced calcium ion mobilization in osteoblasts on amino group containing plasma polymer nanolayer. Cell and Bioscience, 2018, 8, 22.	4.8	25
7	Abrogated Cell Contact Guidance on Amino-Functionalized Microgrooves. ACS Applied Materials & Interfaces, 2017, 9, 10461-10471.	8.0	33
8	Restricted cell functions on micropillars are alleviated by surface-nanocoating with amino groups. Journal of Cell Science, 2017, 131, .	2.0	3
9	A Cell-Adhesive Plasma Polymerized Allylamine Coating Reduces the In Vivo Inflammatory Response Induced by Ti6Al4V Modified with Plasma Immersion Ion Implantation of Copper. Journal of Functional Biomaterials, 2017, 8, 30.	4.4	13
10	Plasma-deposited fluorocarbon polymer films on titanium for preventing cell adhesion: a surface finishing for temporarily used orthopaedic implants. Journal Physics D: Applied Physics, 2016, 49, 234002.	2.8	6
11	Accelerated cell-surface interlocking on plasma polymer-modified porous ceramics. Materials Science and Engineering C, 2016, 69, 1116-1124.	7.3	24
12	Complex Cell Physiology on Topographically and Chemically Designed Material Surfaces. Materials Science Forum, 2016, 879, 78-83.	0.3	1
13	Quantification of Osseointegration of Plasma-Polymer Coated Titanium Alloyed Implants by means of Microcomputed Tomography versus Histomorphometry. BioMed Research International, 2015, 2015, 1-8.	1.9	8
14	Systemic IFNÎ³ predicts local implant macrophage response. Journal of Materials Science: Materials in Medicine, 2015, 26, 131.	3.6	8
15	Surface-Coated Polylactide Fiber Meshes as Tissue Engineering Matrices with Enhanced Cell Integration Properties. International Journal of Polymer Science, 2014, 2014, 1-12.	2.7	15
16	Evaluation of Osseointegration of Titanium Alloyed Implants Modified by Plasma Polymerization. International Journal of Molecular Sciences, 2014, 15, 2454-2464.	4.1	26
17	Aging of Plasma-Polymerized Allylamine Nanofilms and the Maintenance of Their Cell Adhesion Capacity. Langmuir, 2014, 30, 13914-13924.	3.5	27
18	Poly (hexamethylene biguanide) adsorption on hydrogen peroxide treated Tiâ€"Alâ€"V alloys and effects on wettability, antimicrobial efficacy, and cytotoxicity. Biomaterials, 2014, 35, 5261-5277.	11.4	30

#	Article	IF	Citations
19	In vivo examination of the local inflammatory response after implantation of Ti6Al4V samples with a combined low-temperature plasma treatment using pulsed magnetron sputtering of copper and plasma-polymerized ethylenediamine. Journal of Materials Science: Materials in Medicine, 2013, 24, 761-771.	3.6	10
20	Aging effects of plasma polymerized ethylenediamine (PPEDA) thin films on cell-adhesive implant coatings. Materials Science and Engineering C, 2013, 33, 3875-3880.	7.3	33
21	Analysis of the Release Characteristics of Cu-Treated Antimicrobial Implant Surfaces Using Atomic Absorption Spectrometry. Bioinorganic Chemistry and Applications, 2012, 2012, 1-5.	4.1	15
22	Impact of plasma chemistry versus titanium surface topography on osteoblast orientation. Acta Biomaterialia, 2012, 8, 3840-3851.	8.3	35
23	Antimicrobial Potential of Copperâ€Containing Titanium Surfaces Generated by Ion Implantation and Dual High Power Impulse Magnetron Sputtering. Advanced Engineering Materials, 2012, 14, B224.	3.5	30
24	Serum profile of pro- and anti-inflammatory cytokines in rats following implantation of low-temperature plasma-modified titanium plates. Journal of Materials Science: Materials in Medicine, 2012, 23, 1299-1307.	3.6	12
25	On the Application of Gas Discharge Plasmas for the Immobilization of Bioactive Molecules for Biomedical and Bioengineering Applications. , 2011, , .		2
26	Plasma processes for cell-adhesive titanium surfaces based on nitrogen-containing coatings. Surface and Coatings Technology, 2011, 205, S520-S524.	4.8	56
27	Examination of the inflammatory response following implantation of titanium plates coated with phospholipids in rats. Journal of Materials Science: Materials in Medicine, 2011, 22, 1015-1026.	3.6	9
28	Design of Plasma Surfaceâ€Activated, Electrospun Polylactide Nonâ€Wovens with Improved Cell Acceptance. Advanced Engineering Materials, 2011, 13, B165.	3.5	13
29	Positively Charged Material Surfaces Generated by Plasma Polymerized Allylamine Enhance Vinculin Mobility in Vital Human Osteoblastss. Advanced Engineering Materials, 2010, 12, B356.	3.5	29
30	Time-Dependent Metabolic Activity and Adhesion of Human Osteoblast-Like Cells on Sensor Chips with a Plasma Polymer Nanolayer. International Journal of Artificial Organs, 2010, 33, 738-748.	1.4	19
31	Osteoblast Sensitivity to Topographical and Chemical Features of Titanium. Materials Science Forum, 2010, 638-642, 652-657.	0.3	7
32	Gas-Discharge Plasma-Assisted Functionalization of Titanium Implant Surfaces. Materials Science Forum, 2010, 638-642, 700-705.	0.3	19
33	Time-dependent metabolic activity and adhesion of human osteoblast-like cells on sensor chips with a plasma polymer nanolayer. International Journal of Artificial Organs, 2010, 33, 738-48.	1.4	6
34	Mechanical characterization of anti-infectious, anti-allergic, and bioactive coatings on orthopedic implant surfaces. Journal of Materials Science, 2009, 44, 5544-5551.	3.7	21
35	Structure Retention and Water Stability of Microwave Plasma Polymerized Films From Allylamine and Acrylic Acid. Plasma Processes and Polymers, 2009, 6, S70.	3.0	51
36	Surface Radical Detection on NH₃â€Plasma Treated Polymer Surfaces Using the Radical Scavenger NO. Plasma Processes and Polymers, 2008, 5, 386-396.	3.0	26

#	Article	IF	Citations
37	The effect of positively charged plasma polymerization on initial osteoblastic focal adhesion on titanium surfaces. Biomaterials, 2007, 28, 4521-4534.	11.4	208
38	Improved initial osteoblast functions on amino-functionalized titanium surfaces. New Biotechnology, 2007, 24, 447-454.	2.7	87
39	Electrochemical Assessment of Cu-PIII Treated Titanium Samples for Antimicrobial Surfaces. Materials Science Forum, 0, 706-709, 478-483.	0.3	3
40	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
41	Plasma-Activated Electrospun Polylactide Fiber Meshes as Matrices for Tissue Engineering. Materials Science Forum, 0, 783-786, 1337-1342.	0.3	0
42	Geometrical Micropillars Combined with Chemical Surface Modifications â€“ Independency of Actin Filament Spatial Distribution in Primary Osteoblasts. Materials Science Forum, 0, 783-786, 1320-1325.	0.3	5
43	Anti-Adhesive Finishing of Temporary Implant Surfaces by a Plasma-Fluorocarbon-Polymer. Materials Science Forum, 0, 783-786, 1238-1243.	0.3	3