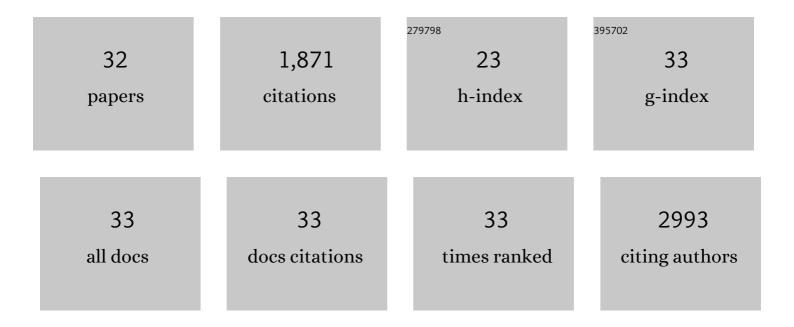
Rainer Mueller

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	The promotion of oriented axonal regrowth in the injured spinal cord by alginate-based anisotropic capillary hydrogels. Biomaterials, 2006, 27, 3560-9.	11.4	285
2	Influence of different collagen species on physico-chemical properties of crosslinked collagen matrices. Biomaterials, 2004, 25, 2831-2841.	11.4	267
3	Surface engineering of stainless steel materials by covalent collagen immobilization to improve implant biocompatibility. Biomaterials, 2005, 26, 6962-6972.	11.4	123
4	Cell-seeded alginate hydrogel scaffolds promote directed linear axonal regeneration in the injured rat spinal cord. Acta Biomaterialia, 2015, 27, 140-150.	8.3	113
5	Influence of surface pretreatment of titanium- and cobalt-based biomaterials on covalent immobilization of fibrillar collagen. Biomaterials, 2006, 27, 4059-4068.	11.4	108
6	Influences of protein films on antibacterial or bacteria-repellent surface coatings in a model system using silicon wafers. Biomaterials, 2009, 30, 4921-4929.	11.4	98
7	Measuring and modeling aqueous electrolyte/amino-acid solutions with ePC-SAFT. Journal of Chemical Thermodynamics, 2014, 68, 1-12.	2.0	97
8	Regulated viral BDNF delivery in combination with Schwann cells promotes axonal regeneration through capillary alginate hydrogels after spinal cord injury. Acta Biomaterialia, 2017, 60, 167-180.	8.3	93
9	Proliferation of osteoblasts and fibroblasts on model surfaces of varying roughness and surface chemistry. Journal of Materials Science: Materials in Medicine, 2007, 18, 1895-1905.	3.6	69
10	Increasing capillary diameter and the incorporation of gelatin enhance axon outgrowth in alginate-based anisotropic hydrogels. Acta Biomaterialia, 2011, 7, 2826-2834.	8.3	65
11	Reinforcement of experimental composite materials based on amorphous calcium phosphate with inert fillers. Dental Materials, 2014, 30, 1052-1060.	3.5	45
12	The impact of dendrimer-grafted modifications to model silicon surfaces on protein adsorption and bacterial adhesion. Biomaterials, 2011, 32, 9168-9179.	11.4	43
13	Influence of electrolytes on liquid-liquid equilibria of water/1-butanol and on the partitioning of 5-hydroxymethylfurfural in water/1-butanol. Fluid Phase Equilibria, 2016, 428, 102-111.	2.5	39
14	Characterization of esterified hyaluronanâ€gelatin polymer composites suitable for chondrogenic differentiation of mesenchymal stem cells. Journal of Biomedical Materials Research - Part A, 2009, 91A, 416-427.	4.0	36
15	Intrinsic and extrinsic determinants of central nervous system axon outgrowth into alginate-based anisotropic hydrogels. Acta Biomaterialia, 2015, 27, 131-139.	8.3	36
16	Bonding of articular cartilage using a combination of biochemical degradation and surface cross-linking. Arthritis Research and Therapy, 2007, 9, R47.	3.5	35
17	Effect of silanized nanosilica addition on remineralizing and mechanical properties of experimental composite materials with amorphous calcium phosphate. Clinical Oral Investigations, 2014, 18, 783-792.	3.0	31
18	Fluorescence-Based Bacterial Overlay Method for Simultaneous In Situ Quantification of Surface-Attached Bacteria. Applied and Environmental Microbiology, 2007, 73, 2653-2660.	3.1	30

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#	Article	IF	CITATIONS
19	Surface-immobilized PAMAM-dendrimers modified with cationic or anionic terminal functions: Physicochemical surface properties and conformational changes after application of liquid interface stress. Journal of Colloid and Interface Science, 2012, 366, 179-190.	9.4	30
20	Effects of aging on surface properties and adhesion of Streptococcus mutans on various fissure sealants. Clinical Oral Investigations, 2009, 13, 419-426.	3.0	27
21	Salivary protein adsorption and Streptococccus gordonii adhesion to dental material surfaces. Dental Materials, 2013, 29, 1080-1089.	3.5	27
22	Synthesis of functionalized, dispersible carbon-coated cobalt nanoparticles for potential biomedical applications. Faraday Discussions, 2014, 175, 27-40.	3.2	25
23	Chemiluminescence-based detection and comparison of protein amounts adsorbed on differently modified silica surfaces. Analytical Biochemistry, 2006, 359, 194-202.	2.4	24
24	Adhesion of eukaryotic cells and <i>Staphylococcus aureus</i> to silicon model surfaces. Journal of Biomedical Materials Research - Part A, 2008, 84A, 817-827.	4.0	23
25	Terminal chemical functions of polyamidoamine dendrimer surfaces and its impact on bone cell growth. Materials Science and Engineering C, 2019, 101, 190-203.	7.3	21
26	New Anisotropic Ceramic Membranes from Chemically Fixed Dissipative Structures. Langmuir, 2006, 22, 11353-11359.	3.5	20
27	Novel multicolor fluorescently labeled silica nanoparticles for interface fluorescence resonance energy transfer to and from labeled avidin. Analytical and Bioanalytical Chemistry, 2010, 398, 1615-1623.	3.7	19
28	Saliva and Serum Protein Adsorption on Chemically Modified Silica Surfaces. Journal of Dental Research, 2021, 100, 1047-1054.	5.2	9
29	Protecting Nanoscaled Non-oxidic Particles from Oxygen Uptake by Coating with Nitrogen-Containing Surfactants. Langmuir, 2004, 20, 2598-2606.	3.5	6
30	Streptococcal adhesion to various luting systems and the role of mixing errors. Acta Odontologica Scandinavica, 2009, 67, 139-145.	1.6	6
31	Osmotic Coefficients and Activity Coefficients in Aqueous Aminoethanoic Acid–NaCl Mixtures at 298.15 K. Journal of Chemical & Engineering Data, 2014, 59, 2741-2749.	1.9	4
32	Comparison of Protein-Repellent Behavior of Linear versus Dendrimer-Structured Surface-Immobilized Polymers. Langmuir, 2020, 36, 5880-5890.	3.5	4