

# Peter P. Mueller

## List of Publications by Year in descending order

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Version: 2024-02-01

75  
papers

3,160  
citations

159585

30  
h-index

155660

55  
g-index

81  
all docs

81  
docs citations

81  
times ranked

3360  
citing authors

#	ARTICLE	IF	CITATIONS
1	Total synthesis and mechanism of action of the antibiotic armeniaspirol A. <i>Chemical Science</i> , 2021, 12, 16023-16034.	7.4	5
2	Evidence for inoculum size and gas interfaces as critical factors in bacterial biofilm formation on magnesium implants in an animal model. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 186, 110684.	5.0	12
3	Non-Invasive Luciferase Imaging of Type I Interferon Induction in a Transgenic Mouse Model of Biomaterial Associated Bacterial Infections: Microbial Specificity and Inter-Bacterial Species Interactions. <i>Microorganisms</i> , 2020, 8, 1624.	3.6	2
4	SAR Studies of the Leupyrrins: Design and Total Synthesis of Highly Potent Simplified Leupylogs. <i>Chemistry - A European Journal</i> , 2020, 26, 15074-15078.	3.3	3
5	Advances and Challenges of Biodegradable Implant Materials with a Focus on Magnesium-Alloys and Bacterial Infections. <i>Metals</i> , 2018, 8, 532.	2.3	60
6	Phosphate conversion coating reduces the degradation rate and suppresses side effects of metallic magnesium implants in an animal model. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2017, 105, 1622-1635.	3.4	14
7	Multivalent Siderophore- <sup>64</sup> DOTAM Conjugates as Theranostics for Imaging and Treatment of Bacterial Infections. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 8272-8276.	13.8	81
8	Differential magnesium implant corrosion coat formation and contribution to bone bonding. <i>Journal of Biomedical Materials Research - Part A</i> , 2017, 105, 697-709.	4.0	11
9	Susceptibility of metallic magnesium implants to bacterial biofilm infections. <i>Journal of Biomedical Materials Research - Part A</i> , 2016, 104, 1489-1499.	4.0	39
10	Evaluation of the inflammatory potential of implant materials in a mouse model by bioluminescent imaging of intravenously injected bone marrow cells. <i>Journal of Biomedical Materials Research - Part A</i> , 2016, 104, 2149-2158.	4.0	8
11	Alkalization is responsible for antibacterial effects of corroding magnesium. <i>Journal of Biomedical Materials Research - Part A</i> , 2015, 103, 3526-3532.	4.0	74
12	Controlled drug release from antibiotic- <sup>64</sup> loaded layered double hydroxide coatings on porous titanium implants in a mouse model. <i>Journal of Biomedical Materials Research - Part A</i> , 2015, 103, 2141-2149.	4.0	43
13	Identification of whole pathogenic cells by monoclonal antibodies generated against a specific peptide from an immunogenic cell wall protein. <i>Journal of Microbiological Methods</i> , 2015, 108, 61-69.	1.6	2
14	<i>In Vivo</i> testing of a bioabsorbable magnesium alloy serving as total ossicular replacement prostheses. <i>Journal of Biomaterials Applications</i> , 2014, 28, 688-696.	2.4	10
15	Involvement of the mitogen activated protein kinase Hog1p in the response of <i>Candida albicans</i> to iron availability. <i>BMC Microbiology</i> , 2013, 13, 16.	3.3	28
16	Fluoride and calcium-phosphate coated sponges of the magnesium alloy AX30 as bone grafts: a comparative study in rabbits. <i>Journal of Materials Science: Materials in Medicine</i> , 2013, 24, 417-436.	3.6	40
17	Layered double hydroxides as efficient drug delivery system of ciprofloxacin in the middle ear: an animal study in rabbits. <i>Journal of Materials Science: Materials in Medicine</i> , 2013, 24, 129-136.	3.6	43
18	Efficacy of nanoporous silica coatings on middle ear prostheses as a delivery system for antibiotics: An animal study in rabbits. <i>Acta Biomaterialia</i> , 2013, 9, 4815-4825.	8.3	34

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19	The formation of an organic coat and the release of corrosion microparticles from metallic magnesium implants. <i>Acta Biomaterialia</i> , 2013, 9, 7580-7589.	8.3	42
20	Mesoporous silica films as a novel biomaterial: applications in the middle ear. <i>Chemical Society Reviews</i> , 2013, 42, 3847.	38.1	70
21	Evaluation of single-cell force spectroscopy and fluorescence microscopy to determine cell interactions with femtosecond-laser microstructured titanium surfaces. <i>Journal of Biomedical Materials Research - Part A</i> , 2013, 101A, 981-990.	4.0	12
22	Nanoporous silica coatings on implant surfaces: characterization, stability, biocompatibility and drug release properties. <i>BioNanoMaterials</i> , 2013, 14, 89-100.	1.4	3
23	Assessment of Cellular Reactions to Magnesium as Implant Material in Comparison to Titanium and to Glyconate Using the Mouse Tail Model. <i>Journal of Applied Biomaterials and Functional Materials</i> , 2013, 11, 89-94.	1.6	9
24	Nanoporous Silica Coatings as a Drug Delivery System for Ciprofloxacin. <i>Otology and Neurotology</i> , 2013, 34, 1138-1145.	1.3	10
25	Evaluation and comparison of in vitro and in vivo degradation kinetics of magnesium. <i>Biomedizinische Technik</i> , 2013, 58 Suppl 1, .	0.8	0
26	A novel functional assay for fungal histidine kinases group III reveals the role of HAMP domains for fungicide sensitivity. <i>Journal of Biotechnology</i> , 2012, 157, 268-277.	3.8	23
27	Functional inhibition of transitory proteins by intrabody-mediated retention in the endoplasmatic reticulum. <i>Methods</i> , 2012, 56, 338-350.	3.8	12
28	Histological and molecular evaluation of iron as degradable medical implant material in a murine animal model. <i>Journal of Biomedical Materials Research - Part A</i> , 2012, 100A, 2881-2889.	4.0	55
29	Comparison of in vitro and in vivo protein release from hydrogel systems. <i>Journal of Controlled Release</i> , 2012, 162, 127-133.	9.9	23
30	Mesoporous silica coatings for controlled release of the antibiotic ciprofloxacin from implants. <i>Journal of Materials Chemistry</i> , 2011, 21, 752-760.	6.7	62
31	Amino-modified silica surfaces efficiently immobilize bone morphogenetic protein 2 (BMP2) for medical purposes. <i>Acta Biomaterialia</i> , 2011, 7, 1772-1779.	8.3	42
32	Immobilization of alkaline phosphatase on modified silica coatings. <i>Microporous and Mesoporous Materials</i> , 2010, 131, 51-57.	4.4	27
33	Evaluation of Madurahydroxylactone as a Slow Release Antibacterial Implant Coating. <i>Open Biomedical Engineering Journal</i> , 2010, 4, 263-270.	0.5	6
34	Experimental middle ear surgery in rabbits: a new approach for reconstructing the ossicular chain. <i>Laboratory Animals</i> , 2009, 43, 198-204.	1.0	14
35	Common signatures for gene expression in postnatal patients with patent arterial ducts and stented arteries. <i>Cardiology in the Young</i> , 2009, 19, 352-359.	0.8	24
36	Free Bioverit <sup>®</sup> II Implants Coated with a Nanoporous Silica Layer in a Mouse Ear Model – A Histological Study. <i>Journal of Biomaterials Applications</i> , 2009, 24, 175-191.	2.4	24

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37	A biomechanical ear model to evaluate middle-ear reconstruction. <i>International Journal of Audiology</i> , 2009, 48, 876-884.	1.7	5
38	Differential fine-tuning of cochlear implant material-cell interactions by femtosecond laser microstructuring. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2008, 87B, 146-153.	3.4	35
39	Differential fine-tuning of cochlear implant material-cell interactions by femtosecond laser microstructuring. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2008, 87B, 598-598.	3.4	1
40	Normative data of multifrequency tympanometry in rabbits. <i>Laboratory Animals</i> , 2008, 42, 320-325.	1.0	4
41	Control of smooth muscle cell proliferation by ferrous iron. <i>Biomaterials</i> , 2006, 27, 2193-2200.	11.4	137
42	Cartilage repair on magnesium scaffolds used as a subchondral bone replacement. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2006, 37, 504-508.	0.9	108
43	Innate Immune Responses in NF- $\kappa$ B-Repressing Factor-Deficient Mice. <i>Molecular and Cellular Biology</i> , 2006, 26, 293-302.	2.3	17
44	Novel highly efficient intrabody mediates complete inhibition of cell surface expression of the human vascular endothelial growth factor receptor-2 (VEGFR-2/KDR). <i>Journal of Immunological Methods</i> , 2005, 300, 146-159.	1.4	31
45	Establishment of murine cell lines by constitutive and conditional immortalization. <i>Journal of Biotechnology</i> , 2005, 120, 99-110.	3.8	34
46	Transcriptionally regulated immortalization overcomes side effects of temperature-sensitive SV40 large T antigen. <i>Biochemical and Biophysical Research Communications</i> , 2005, 327, 734-741.	2.1	16
47	Transformation of mouse fibroblasts alters the induction pattern of type I IFNs after virus infection. <i>Biochemical and Biophysical Research Communications</i> , 2005, 335, 584-589.	2.1	11
48	Nucleolar localization and mobility analysis of the NF- $\kappa$ B repressing factor NRF. <i>Journal of Cell Science</i> , 2004, 117, 3447-3458.	2.0	45
49	Application of a Reversible Immortalization System for the Generation of Proliferation-Controlled Cell Lines. <i>Cytotechnology</i> , 2004, 46, 69-78.	1.6	5
50	Review: Activities of IRF-1. <i>Journal of Interferon and Cytokine Research</i> , 2002, 22, 5-14.	1.2	247
51	Coordination of cell growth in cocultures by a genetic proliferation control system. <i>Biotechnology and Bioengineering</i> , 2002, 78, 346-352.	3.3	3
52	Establishment of a Genetic System to Coordinate Feeder Cell Growth in Cocultures with Primary Cells. , 2001, , 565-567.		0
53	Enhanced productivity during controlled proliferation of BHK cells in continuously perfused bioreactors. <i>Biotechnology and Bioengineering</i> , 2000, 69, 266-274.	3.3	47
54	Manipulation of culture conditions for BHK cell growth inhibition by IRF-1 activation. <i>Cytotechnology</i> , 2000, 32, 135-145.	1.6	7

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55	Genetic optimization of recombinant glycoprotein production by mammalian cells. Trends in Biotechnology, 1999, 17, 35-42.	9.3	108
56	Recombinant glycoprotein product quality in proliferation-controlled BHK-21 cells. Biotechnology and Bioengineering, 1999, 65, 529-536.	3.3	24
57	A Ribosomal Protein Is Required for Translational Regulation of GCN4 mRNA. Journal of Biological Chemistry, 1998, 273, 32870-32877.	3.4	15
58	The Position Dependence of Translational Regulation via RNA-RNA and RNA-Protein Interactions in the 5' Untranslated Region of Eukaryotic mRNA Is a Function of the Thermodynamic Competence of 40 S Ribosomes in Translational Initiation. Journal of Biological Chemistry, 1997, 272, 16531-16539.	3.4	30
59	Mutants of Eukaryotic Initiation Factor eIF-4E with Altered mRNA Cap Binding Specificity Reprogram mRNA Selection by Ribosomes in Saccharomyces cerevisiae. Journal of Biological Chemistry, 1996, 271, 7030-7037.	3.4	41
60	Regulation of the ADE2 gene from Saccharomyces cerevisiae. Current Genetics, 1993, 24, 472-480.	1.7	19
61	Uncharged tRNA and Derepression of the General Amino Acid Control: Autoregulation of Yeast Lysyl-tRNA Synthetase. , 1993, , 143-155.		0
62	A Saccharomyces cerevisiae homologue of mammalian translation initiation factor 4B contributes to RNA helicase activity. EMBO Journal, 1993, 12, 3997-4003.	7.8	66
63	Autoregulation of the yeast lysyl-tRNA synthetase gene GCD5/KRS1 by translational and transcriptional control mechanisms. Cell, 1992, 70, 647-657.	28.9	63
64	Interactions of the eIF-4F subunits in the yeast Saccharomyces cerevisiae. Journal of Biological Chemistry, 1992, 267, 21167-71.	3.4	36
65	Translation and regulation of translation in the yeast Saccharomyces cerevisiae. FEBS Journal, 1990, 191, 257-261.	0.2	31
66	Review Translation and regulation of translation in the yeast Saccharomyces cerevisiae. , 1990, , 145-149.		0
67	Genetic localization of the Saccharomyces cerevisiae genes tif1 and tif2. Current Genetics, 1989, 16, 127-128.	1.7	5
68	The positive regulatory function of the 5'-proximal open reading frames in GCN4 mRNA can be mimicked by heterologous, short coding sequences.. Molecular and Cellular Biology, 1988, 8, 3827-3836.	2.3	46
69	Evidence for regulation of reinitiation in translational control of GCN4 mRNA.. Proceedings of the National Academy of Sciences of the United States of America, 1988, 85, 7279-7283.	7.1	26
70	Translational Control of Transcriptional Activation in the Regulation of Amino Acid Biosynthesis in Yeast. , 1988, , 499-512.		0
71	A segment of GCN4 mRNA containing the upstream AUG codons confers translational control upon a heterologous yeast transcript.. Proceedings of the National Academy of Sciences of the United States of America, 1987, 84, 2863-2867.	7.1	96
72	Multiple upstream AUG codons mediate translational control of GCN4. Cell, 1986, 45, 201-207.	28.9	637

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73	Primary structure of wild-type and mutant alleles of the PET494 gene of <i>Saccharomyces cerevisiae</i> . <i>Molecular Genetics and Genomics</i> , 1986, 202, 294-301.	2.4	32
74	Molecular cloning and genetic mapping of the PET494 gene of <i>Saccharomyces cerevisiae</i> . <i>Molecular Genetics and Genomics</i> , 1984, 195, 275-280.	2.4	30
75	A nuclear mutation that post-transcriptionally blocks accumulation of a yeast mitochondrial gene product can be suppressed by a mitochondrial gene rearrangement. <i>Journal of Molecular Biology</i> , 1984, 175, 431-452.	4.2	130