

# Regine Willumeit

## List of Publications by Year in descending order

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265  
papers

11,635  
citations

30047

54  
h-index

36008

97  
g-index

271  
all docs

271  
docs citations

271  
times ranked

8503  
citing authors

#	ARTICLE	IF	CITATIONS
1	Degradable biomaterials based on magnesium corrosion. <i>Current Opinion in Solid State and Materials Science</i> , 2008, 12, 63-72.	5.6	1,537
2	Magnesium alloys as implant materials – Principles of property design for Mg–RE alloys†. <i>Acta Biomaterialia</i> , 2010, 6, 1714-1725.	4.1	503
3	Evaluation of short-term effects of rare earth and other elements used in magnesium alloys on primary cells and cell lines†. <i>Acta Biomaterialia</i> , 2010, 6, 1834-1842.	4.1	496
4	Mg and Mg alloys: How comparable are in vitro and in vivo corrosion rates? A review. <i>Acta Biomaterialia</i> , 2015, 13, 16-31.	4.1	378
5	Measurement of the spin-dependent structure function $g_1(x)$ of the proton. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1994, 329, 399-406.	1.5	311
6	Spin asymmetries $A_1$ and structure functions $g_1$ of the proton and the deuteron from polarized high energy muon scattering. <i>Physical Review D</i> , 1998, 58, .	1.6	266
7	Spin structure of the proton from polarized inclusive deep-inelastic muon-proton scattering. <i>Physical Review D</i> , 1997, 56, 5330-5358.	1.6	233
8	Magnesium degradation under physiological conditions – Best practice. <i>Bioactive Materials</i> , 2018, 3, 174-185.	8.6	177
9	Chemical surface alteration of biodegradable magnesium exposed to corrosion media. <i>Acta Biomaterialia</i> , 2011, 7, 2704-2715.	4.1	174
10	Effects of extracellular magnesium extract on the proliferation and differentiation of human osteoblasts and osteoclasts in coculture. <i>Acta Biomaterialia</i> , 2015, 27, 294-304.	4.1	158
11	Interference of magnesium corrosion with tetrazolium-based cytotoxicity assays†. <i>Acta Biomaterialia</i> , 2010, 6, 1813-1823.	4.1	150
12	A new measurement of the spin-dependent structure function $g_1(x)$ of the deuteron. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1995, 357, 248-254.	1.5	149
13	Polarised quark distributions in the nucleon from semi-inclusive spin asymmetries. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1998, 420, 180-190.	1.5	148
14	In vitro and in vivo comparison of binary Mg alloys and pure Mg. <i>Materials Science and Engineering C</i> , 2016, 61, 865-874.	3.8	122
15	Microstructure and mechanical behavior of metal injection molded Ti–Nb binary alloys as biomedical material. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2013, 28, 171-182.	1.5	118
16	Next-to-leading order QCD analysis of the spin structure function $g_1$ . <i>Physical Review D</i> , 1998, 58, .	1.6	117
17	Improved cytotoxicity testing of magnesium materials. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2011, 176, 830-834.	1.7	108
18	The role of individual components of simulated body fluid on the corrosion behavior of commercially pure Mg. <i>Corrosion Science</i> , 2019, 147, 81-93.	3.0	97

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19	Spin asymmetries for events with high pT hadrons in DIS and an evaluation of the gluon polarization. <i>Physical Review D</i> , 2004, 70, .	1.6	96
20	Small-Angle Neutron and X-ray Scattering from Amphiphilic Stimuli-Responsive Diamond-Type Bicontinuous Cubic Phase. <i>Journal of the American Chemical Society</i> , 2007, 129, 13474-13479.	6.6	96
21	Effects of extracellular magnesium on the differentiation and function of human osteoclasts. <i>Acta Biomaterialia</i> , 2014, 10, 2843-2854.	4.1	96
22	Magnesium-based implants: a mini-review. <i>Magnesium Research</i> , 2014, 27, 142-154.	0.4	96
23	Polarisation of valence and non-strange sea quarks in the nucleon from semi-inclusive spin asymmetries. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1996, 369, 93-100.	1.5	95
24	Microstructure, mechanical and corrosion properties of Mg-Gd-Zr alloys for medical applications. <i>Acta Biomaterialia</i> , 2013, 9, 8499-8508.	4.1	92
25	Spin asymmetry in muon-proton deep inelastic scattering on a transversely-polarized target. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1994, 336, 125-130.	1.5	89
26	Element distribution in the corrosion layer and cytotoxicity of alloy Mg-10Dy during in vitro biodegradation. <i>Acta Biomaterialia</i> , 2013, 9, 8475-8487.	4.1	87
27	Bioactive plasma electrolytic oxidation coatings on Mg-Ca alloy to control degradation behaviour. <i>Surface and Coatings Technology</i> , 2017, 315, 454-467.	2.2	87
28	Mechanical and corrosion properties of binary Mg-Dy alloys for medical applications. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2011, 176, 1827-1834.	1.7	86
29	In vitro evaluation of the ZX11 magnesium alloy as potential bone plate: Degradability and mechanical integrity. <i>Acta Biomaterialia</i> , 2019, 97, 608-622.	4.1	86
30	XPS Studies of Magnesium Surfaces after Exposure to Dulbecco's Modified Eagle Medium, Hank's Buffered Salt Solution, and Simulated Body Fluid. <i>Advanced Engineering Materials</i> , 2010, 12, B699.	1.6	83
31	Unphysiologically High Magnesium Concentrations Support Chondrocyte Proliferation and Redifferentiation. <i>Tissue Engineering</i> , 2006, 12, 3545-3556.	4.9	79
32	Thermotropic and lyotropic properties of long chain alkyl glycopyranosides. Part II. Disaccharide headgroups. <i>Chemistry and Physics of Lipids</i> , 2000, 106, 157-179.	1.5	78
33	Proton- and deuteron spin targets in biological structure research. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1995, 356, 124-132.	0.7	76
34	Long-Living Intermediates during a Lamellar to a Diamond-Cubic Lipid Phase Transition: A Small-Angle X-Ray Scattering Investigation. <i>Langmuir</i> , 2009, 25, 3734-3742.	1.6	76
35	Intramedullary Mg2Ag nails augment callus formation during fracture healing in mice. <i>Acta Biomaterialia</i> , 2016, 36, 350-360.	4.1	75
36	Structural rearrangement of model membranes by the peptide antibiotic NK-2. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2005, 1669, 125-134.	1.4	74

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37	Baicalin loaded in folate-PEG modified liposomes for enhanced stability and tumor targeting. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 140, 74-82.	2.5	73
38	In vitro mechanical and corrosion properties of biodegradable Mg-Ag alloys. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2014, 65, 569-576.	0.8	72
39	On the nanoparticle synthesis in microemulsions: detailed characterization of an applied reaction mixture. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2000, 163, 3-15.	2.3	70
40	Spin asymmetries of the proton and the deuteron in the low and low Q <sup>2</sup> region from polarized high energy muon scattering. <i>Physical Review D</i> , 1999, 60, .	1.6	69
41	Earliest Stage of the Tetrahedral Nanochannel Formation in Cubosome Particles from Unilamellar Nanovesicles. <i>Langmuir</i> , 2012, 28, 16647-16655.	1.6	68
42	Sterically stabilized spongosomes for multidrug delivery of anticancer nanomedicines. <i>Journal of Materials Chemistry B</i> , 2015, 3, 7734-7744.	2.9	68
43	Gadolinium accumulation in organs of Sprague-Dawley rats after implantation of a biodegradable magnesium-gadolinium alloy. <i>Acta Biomaterialia</i> , 2017, 48, 521-529.	4.1	68
44	Reprint of: Improved cytotoxicity testing of magnesium materials. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2011, 176, 1773-1777.	1.7	67
45	Effects of magnesium degradation products on mesenchymal stem cell fate and osteoblastogenesis. <i>Gene</i> , 2016, 575, 9-20.	1.0	66
46	Effects of corrosion environment and proteins on magnesium corrosion. <i>Corrosion Engineering Science and Technology</i> , 2012, 47, 335-339.	0.7	63
47	Local pH and Its Evolution Near Mg Alloy Surfaces Exposed to Simulated Body Fluids. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800169.	1.9	63
48	Comparison of Small-Angle Scattering Methods for the Structural Analysis of Octyl- $\beta$ -maltopyranoside Micelles. <i>Journal of Physical Chemistry B</i> , 2002, 106, 7596-7604.	1.2	62
49	Magnesium degradation influenced by buffering salts in concentrations typical of in vitro and in vivo models. <i>Materials Science and Engineering C</i> , 2016, 58, 817-825.	3.8	61
50	Open porous dealloying-based biomaterials as a novel biomaterial platform. <i>Materials Science and Engineering C</i> , 2018, 88, 95-103.	3.8	60
51	Influence of ageing treatment on microstructure, mechanical and bio-corrosion properties of Mg-Dy alloys. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2012, 13, 36-44.	1.5	59
52	Sintering behavior and mechanical properties of a metal injection molded Ti-Nb binary alloy as biomaterial. <i>Journal of Alloys and Compounds</i> , 2015, 640, 393-400.	2.8	59
53	Magnesium degradation as determined by artificial neural networks. <i>Acta Biomaterialia</i> , 2013, 9, 8722-8729.	4.1	57
54	Degradation testing of Mg alloys in Dulbecco's modified eagle medium: Influence of medium sterilization. <i>Materials Science and Engineering C</i> , 2016, 62, 68-78.	3.8	57

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55	In vivo and in vitro degradation comparison of pure Mg, Mg-10Gd and Mg-2Ag: a short term study. , 2017, 33, 90-104.		56
56	Membrane Activity of Biomimetic Facially Amphiphilic Antibiotics. Journal of Physical Chemistry B, 2006, 110, 3527-3532.	1.2	54
57	Amphiphilic Branched Polymers as Antimicrobial Agents. Macromolecular Bioscience, 2008, 8, 903-915.	2.1	54
58	Aggregate Structure in Concentrated Liquid Dispersions of Ultrananocrystalline Diamond by Small-Angle Neutron Scattering. Journal of Physical Chemistry C, 2009, 113, 9473-9479.	1.5	53
59	Different effects of single protein vs. protein mixtures on magnesium degradation under cell culture conditions. Acta Biomaterialia, 2019, 98, 256-268.	4.1	51
60	Comparative structure analysis of non-polar organic ferrofluids stabilized by saturated mono-carboxylic acids. Journal of Colloid and Interface Science, 2009, 334, 37-41.	5.0	49
61	Micellization Activity of the Natural Lipopeptide [Glu <sub>1</sub> , Asp <sub>5</sub> ] Surfactin-C15 in Aqueous Solution. Journal of Physical Chemistry B, 2010, 114, 2712-2718.	1.2	48
62	Molecular basis for membrane selectivity of NK-2, a potent peptide antibiotic derived from NK-lysin. Biochimica Et Biophysica Acta - Biomembranes, 2003, 1612, 164-171.	1.4	46
63	Mechanical properties and corrosion behavior of Mg-Gd-Ca-Zr alloys for medical applications. Journal of the Mechanical Behavior of Biomedical Materials, 2015, 47, 38-48.	1.5	46
64	Effect of magnesium-degradation products and hypoxia on the angiogenesis of human umbilical vein endothelial cells. Acta Biomaterialia, 2019, 98, 269-283.	4.1	45
65	Localization of the Trigger Factor Binding Site on the Ribosomal 50S Subunit. Journal of Molecular Biology, 2003, 326, 887-897.	2.0	44
66	Ion release from magnesium materials in physiological solutions under different oxygen tensions. Journal of Materials Science: Materials in Medicine, 2012, 23, 9-24.	1.7	44
67	On the Determination of Magnesium Degradation Rates under Physiological Conditions. Materials, 2016, 9, 627.	1.3	44
68	Lubrication synergy: Mixture of hyaluronan and dipalmitoylphosphatidylcholine (DPPC) vesicles. Journal of Colloid and Interface Science, 2017, 488, 225-233.	5.0	42
69	Influence of the Microstructure and Silver Content on Degradation, Cytocompatibility, and Antibacterial Properties of Magnesium-Silver Alloys In Vitro. Oxidative Medicine and Cellular Longevity, 2017, 2017, 1-14.	1.9	42
70	Exploring the effects of organic molecules on the degradation of magnesium under cell culture conditions. Corrosion Science, 2018, 132, 35-45.	3.0	42
71	Fibrinogen and magnesium combination biomaterials modulate macrophage phenotype, NF- $\kappa$ B signaling and crosstalk with mesenchymal stem/stromal cells. Acta Biomaterialia, 2020, 114, 471-484.	4.1	42
72	The Degradation Interface of Magnesium Based Alloys in Direct Contact with Human Primary Osteoblast Cells. PLoS ONE, 2016, 11, e0157874.	1.1	41

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73	Structure of water-based ferrofluids with sodium oleate and polyethylene glycol stabilization by small-angle neutron scattering: contrast-variation experiments. <i>Journal of Applied Crystallography</i> , 2010, 43, 959-969.	1.9	40
74	Mixture of Nonionic/Ionic Surfactants for the Formulation of Nanostructured Lipid Carriers: Effects on Physical Properties. <i>Langmuir</i> , 2014, 30, 6920-6928.	1.6	40
75	Influence of the amount of intermetallics on the degradation of Mg-Nd alloys under physiological conditions. <i>Acta Biomaterialia</i> , 2021, 121, 695-712.	4.1	39
76	Comparison of the reaction of bone-derived cells to enhanced MgCl <sub>2</sub> -salt concentrations. <i>Biomatter</i> , 2014, 4, e967616.	2.6	38
77	Blood compatibility of magnesium and its alloys. <i>Acta Biomaterialia</i> , 2015, 25, 384-394.	4.1	38
78	Doxorubicin hydrochloride-oleic acid conjugate loaded nanostructured lipid carriers for tumor specific drug release. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 145, 95-103.	2.5	38
79	The Effect of Surface Treatments on the Degradation of Biomedical Mg Alloys – A Review Paper. <i>Materials</i> , 2018, 11, 2561.	1.3	38
80	Time-sequential corrosion behaviour observation of micro-alloyed Mg-0.5Zn-0.2Ca alloy via a quasi-in situ approach. <i>Corrosion Science</i> , 2019, 158, 108096.	3.0	38
81	Analysis of the structure of aqueous ferrofluids by the small-angle neutron scattering method. <i>Physics of the Solid State</i> , 2010, 52, 974-978.	0.2	37
82	The polarized target station at GKSS. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1995, 356, 133-137.	0.7	36
83	Structure of the elongating ribosome: Arrangement of the two tRNAs before and after translocation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1998, 95, 945-950.	3.3	36
84	Optimization of Cell Adhesion on Mg Based Implant Materials by Pre-Incubation under Cell Culture Conditions. <i>International Journal of Molecular Sciences</i> , 2014, 15, 7639-7650.	1.8	36
85	Preparation and characterization of a nanostructured lipid carrier for a poorly soluble drug. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014, 455, 36-43.	2.3	36
86	Structure of DPPC-hyaluronan interfacial layers – effects of molecular weight and ion composition. <i>Soft Matter</i> , 2016, 12, 729-740.	1.2	36
87	In vitro degradation behavior of Mg scaffolds with three-dimensional interconnected porous structures for bone tissue engineering. <i>Corrosion Science</i> , 2018, 144, 301-312.	3.0	36
88	Anomalous small-angle X-ray scattering characterization of composites based on sulfonated poly(ether ether ketone), zirconium phosphates, and zirconium oxide. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2004, 42, 567-575.	2.4	35
89	Structure and in Vitro Biological Testing of Water-Based Ferrofluids Stabilized by Monocarboxylic Acids. <i>Langmuir</i> , 2010, 26, 8503-8509.	1.6	35
90	Direct localization of the tRNAs within the elongating ribosome by means of neutron scattering (proton-spin contrast-variation). <i>Journal of Molecular Biology</i> , 1997, 266, 343-356.	2.0	34

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91	The effect of temperature on supported dipalmitoylphosphatidylcholine (DPPC) bilayers: Structure and lubrication performance. <i>Journal of Colloid and Interface Science</i> , 2015, 445, 84-92.	5.0	34
92	Microstructure-corrosion behaviour relationship of micro-alloyed Mg-0.5Zn alloy with the addition of Ca, Sr, Ag, In and Cu. <i>Materials and Design</i> , 2020, 195, 108980.	3.3	34
93	Extended Conformation of Mammalian Translation Elongation Factor 1A in Solution. <i>Biochemistry</i> , 2002, 41, 15342-15349.	1.2	33
94	Behavior of bone cells in contact with magnesium implant material. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2017, 105, 165-179.	1.6	33
95	Adsorption of Proteins on Degradable Magnesium—Which Factors are Relevant?. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 42175-42185.	4.0	33
96	Determination of micelle structure of octyl- $\beta$ -glucoside in aqueous solution by small angle neutron scattering and geometric analysis. <i>Journal of Molecular Liquids</i> , 2000, 89, 239-249.	2.3	32
97	Determination of the Structure of Complexes Formed by a Cationic Polymer and Mixed Anionic Surfactants by Small-Angle Neutron Scattering. <i>Langmuir</i> , 2000, 16, 10061-10068.	1.6	32
98	Structures of micelles formed by synthetic alkyl glycosides with unsaturated alkyl chains. <i>Journal of Colloid and Interface Science</i> , 2005, 284, 704-713.	5.0	32
99	Phospholipids as implant coatings. <i>Journal of Materials Science: Materials in Medicine</i> , 2007, 18, 367-380.	1.7	31
100	Preparation and characterization of 4-dedimethylamino sancycline (CMT-3) loaded nanostructured lipid carrier (CMT-3/NLC) formulations. <i>International Journal of Pharmaceutics</i> , 2013, 450, 225-234.	2.6	31
101	Influence of Magnesium Alloy Degradation on Undifferentiated Human Cells. <i>PLoS ONE</i> , 2015, 10, e0142117.	1.1	31
102	Preclinical in vivo research of magnesium-based implants for fracture treatment: A systematic review of animal model selection and study design. <i>Journal of Magnesium and Alloys</i> , 2021, 9, 351-361.	5.5	31
103	The Interface Between Degradable Mg and Tissue. <i>Jom</i> , 2019, 71, 1447-1455.	0.9	30
104	Metal Injection Molding (MIM) of Magnesium and Its Alloys. <i>Metals</i> , 2016, 6, 118.	1.0	29
105	Interaction of a biosurfactant, Surfactin with a cationic Gemini surfactant in aqueous solution. <i>Journal of Colloid and Interface Science</i> , 2016, 481, 201-209.	5.0	29
106	Analysis of the bone ultrastructure around biodegradable Mg-xGd implants using small angle X-ray scattering and X-ray diffraction. <i>Acta Biomaterialia</i> , 2020, 101, 637-645.	4.1	29
107	Influence of Dy in solid solution on the degradation behavior of binary Mg-Dy alloys in cell culture medium. <i>Materials Science and Engineering C</i> , 2017, 75, 1351-1358.	3.8	28
108	Quantitative characterization of degradation processes in situ by means of a bioreactor coupled flow chamber under physiological conditions using time-lapse SR- $\mu$ CT. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2018, 69, 298-306.	0.8	28

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109	All-atom molecular dynamics simulation studies of fully hydrated gel phase DPPG and DPPE bilayers. <i>Journal of Molecular Structure</i> , 2009, 921, 38-50.	1.8	27
110	Interaction between the Natural Lipopeptide [Glu <sub>1</sub> , Asp <sub>5</sub> ] Surfactin-C15 and Hemoglobin in Aqueous Solution. <i>Biomacromolecules</i> , 2010, 11, 593-599.	2.6	26
111	Degradation rates and products of pure magnesium exposed to different aqueous media under physiological conditions. <i>BioNanoMaterials</i> , 2016, 17, .	1.4	26
112	Characterisation of structure and aggregation processes of aquatic humic substances using small-angle scattering and X-ray microscopy. <i>Analytical and Bioanalytical Chemistry</i> , 2003, 376, 618-625.	1.9	25
113	Production, characterisation, and cytocompatibility of porous titanium-based particulate scaffolds. <i>Journal of Materials Science: Materials in Medicine</i> , 2013, 24, 2337-2358.	1.7	25
114	Magnesium Powder Injection Molding (MIM) of Orthopedic Implants for Biomedical Applications. <i>Jom</i> , 2016, 68, 1191-1197.	0.9	24
115	Cytotoxicity of biodegradable magnesium alloy WE43 to tumor cells in vitro: Bioresorbable implants with antitumor activity?. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2020, 108, 167-173.	1.6	24
116	Titanium carbide precipitation in Ti-22Nb alloy fabricated by metal injection moulding. <i>Powder Metallurgy</i> , 2014, 57, 2-4.	0.9	23
117	Microhardness and In Vitro Corrosion of Heat-Treated Mg-Y-Ag Biodegradable Alloy. <i>Materials</i> , 2017, 10, 55.	1.3	23
118	Large enhancement of deuteron polarization with frequency modulated microwaves. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1996, 372, 339-343.	0.7	22
119	Folate receptor targeted bufalin- $\beta$ -cyclodextrin supramolecular inclusion complex for enhanced solubility and anti-tumor efficiency of bufalin. <i>Materials Science and Engineering C</i> , 2017, 78, 609-618.	3.8	22
120	Exploring key ionic interactions for magnesium degradation in simulated body fluid – A data-driven approach. <i>Corrosion Science</i> , 2021, 182, 109272.	3.0	22
121	Localization of the protein L2 in the 50 S subunit and the 70 S E. coli ribosome. <i>Journal of Molecular Biology</i> , 2001, 305, 167-177.	2.0	21
122	Structure of Complexes Formed by PDADMAC and Sodium Palmitate. <i>Langmuir</i> , 2002, 18, 7272-7278.	1.6	21
123	Ti-6Al-4V-0.5B A Modified Alloy for Implants Produced by Metal Injection Molding. <i>Advanced Engineering Materials</i> , 2011, 13, B440.	1.6	21
124	Interaction of the Biosurfactant, Surfactin with Betaines in Aqueous Solution. <i>Langmuir</i> , 2013, 29, 10648-10657.	1.6	21
125	Investigation of the inverse piezoelectric effect of trabecular bone on a micrometer length scale using synchrotron radiation. <i>Acta Biomaterialia</i> , 2015, 25, 339-346.	4.1	21
126	The influence of hyaluronan on the structure of a DPPC bilayer under high pressures. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 142, 230-238.	2.5	21



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127	Alloying effect of silver in magnesium on the development of microstructure and mechanical properties by indirect extrusion. <i>Journal of Magnesium and Alloys</i> , 2021, 9, 112-122.	5.5	21
128	The in situ structure of ribosomal proteins from polarized neutron scattering. <i>Journal of Molecular Structure</i> , 1996, 383, 201-211.	1.8	20
129	On structural features of fullerene C60 dissolved in carbon disulfide: Complementary study by small-angle neutron scattering and molecular dynamic simulations. <i>Journal of Chemical Physics</i> , 2010, 132, 164515.	1.2	20
130	A Porous TiAl6V4 Implant Material for Medical Application. <i>International Journal of Biomaterials</i> , 2014, 2014, 1-8.	1.1	20
131	The Effect of Equal-Channel Angular Pressing on the Microstructure, the Mechanical and Corrosion Properties and the Anti-Tumor Activity of Magnesium Alloyed with Silver. <i>Materials</i> , 2019, 12, 3832.	1.3	20
132	Assessing the microstructure and in vitro degradation behavior of Mg-xGd screw implants using $\mu$ CT. <i>Journal of Magnesium and Alloys</i> , 2021, 9, 2207-2222.	5.5	20
133	Insights into the Interactions among Surfactin, Betaines, and PAM: Surface Tension, Small-Angle Neutron Scattering, and Small-Angle X-ray Scattering Study. <i>Langmuir</i> , 2014, 30, 3363-3372.	1.6	19
134	The effect of osteoblasts on the surface oxidation processes of biodegradable Mg and Mg-Ag alloys studied by synchrotron IR microspectroscopy. <i>Materials Science and Engineering C</i> , 2018, 91, 659-668.	3.8	19
135	Wide Range Mechanical Customization of Mg-Gd Alloys With Low Degradation Rates by Extrusion. <i>Frontiers in Materials</i> , 2019, 6, .	1.2	19
136	Surface Functionalization of Biomedical Ti-6Al-7Nb Alloy by Liquid Metal Dealloying. <i>Nanomaterials</i> , 2020, 10, 1479.	1.9	19
137	Utilizing Synchrotron Radiation for the Characterization of Biodegradable Magnesium Alloysâ€”From Alloy Development to the Application as Implant Material. <i>Advanced Engineering Materials</i> , 2021, 23, 2100197.	1.6	19
138	Membrane association and selectivity of the antimicrobial peptide NKâ€“2: a molecular dynamics simulation study. <i>Journal of Peptide Science</i> , 2009, 15, 654-667.	0.8	18
139	Fast corroding, thin magnesium coating displays antibacterial effects and low cytotoxicity. <i>Biofouling</i> , 2017, 33, 294-305.	0.8	18
140	Increased levels of sodium chloride directly increase osteoclastic differentiation and resorption in mice and men. <i>Osteoporosis International</i> , 2017, 28, 3215-3228.	1.3	18
141	High-resolution ex vivo analysis of the degradation and osseointegration of Mg-xGd implant screws in 3D. <i>Bioactive Materials</i> , 2022, 13, 37-52.	8.6	18
142	A line-shape analysis for spin-1 NMR signals. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1997, 398, 109-125.	0.7	17
143	X-ray and neutron investigation of self-assembled lipid layers on a titanium surface. <i>Biointerphases</i> , 2013, 8, 21.	0.6	17
144	Mg Biodegradation Mechanism Deduced from the Local Surface Environment under Simulated Physiological Conditions. <i>Advanced Healthcare Materials</i> , 2021, 10, e2100053.	3.9	17

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145	Biological Multi-layer Systems as Implant Surface Modification. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2003, 34, 1084-1093.	0.5	16
146	Cytocompatibility of a free machining titanium alloy containing lanthanum. <i>Journal of Biomedical Materials Research - Part A</i> , 2009, 90A, 931-939.	2.1	16
147	Powder metal injection moulding and heat treatment of AZ81 Mg alloy. <i>Journal of Materials Processing Technology</i> , 2019, 267, 241-246.	3.1	16
148	Macrophage-derived oncostatin M/bone morphogenetic protein 6 in response to Mg-based materials influences pro-osteogenic activity of human umbilical cord perivascular cells. <i>Acta Biomaterialia</i> , 2021, 133, 268-279.	4.1	16
149	Implant degradation of low-alloyed Mg–Zn–Ca in osteoporotic, old and juvenile rats. <i>Acta Biomaterialia</i> , 2022, 147, 427-438.	4.1	16
150	SAXS/WAXS characterization of proton-conducting polymer membranes containing phosphomolybdic acid. <i>Journal of Non-Crystalline Solids</i> , 2005, 351, 2194-2199.	1.5	14
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