

Matthias Epple

List of Publications by Year in descending order

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507
papers

27,107
citations

10351

72
h-index

8835

145
g-index

535
all docs

535
docs citations

535
times ranked

31349
citing authors

#	ARTICLE	IF	CITATIONS
1	Silver as Antibacterial Agent: Ion, Nanoparticle, and Metal. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 1636-1653.	7.2	1,839
2	Biological and Medical Significance of Calcium Phosphates. <i>Angewandte Chemie - International Edition</i> , 2002, 41, 3130-3146.	7.2	1,740
3	Toxicity of Silver Nanoparticles Increases during Storage Because of Slow Dissolution under Release of Silver Ions. <i>Chemistry of Materials</i> , 2010, 22, 4548-4554.	3.2	1,006
4	MSC-derived exosomes: a novel tool to treat therapy-refractory graft-versus-host disease. <i>Leukemia</i> , 2014, 28, 970-973.	3.3	888
5	Characterisation of exosomes derived from human cells by nanoparticle tracking analysis and scanning electron microscopy. <i>Colloids and Surfaces B: Biointerfaces</i> , 2011, 87, 146-150.	2.5	661
6	Calcium phosphates in biomedical applications: materials for the future?. <i>Materials Today</i> , 2016, 19, 69-87.	8.3	642
7	Inorganic Nanoparticles as Carriers of Nucleic Acids into Cells. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 1382-1395.	7.2	521
8	A thorough physicochemical characterisation of 14 calcium phosphate-based bone substitution materials in comparison to natural bone. <i>Biomaterials</i> , 2004, 25, 987-994.	5.7	485
9	Functionally graded materials for biomedical applications. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2003, 362, 40-60.	2.6	441
10	Uptake and intracellular distribution of silver nanoparticles in human mesenchymal stem cells. <i>Acta Biomaterialia</i> , 2011, 7, 347-354.	4.1	335
11	A solid-state NMR investigation of the structure of nanocrystalline hydroxyapatite. <i>Magnetic Resonance in Chemistry</i> , 2006, 44, 573-580.	1.1	324
12	The toxic effect of silver ions and silver nanoparticles towards bacteria and human cells occurs in the same concentration range. <i>RSC Advances</i> , 2012, 2, 6981.	1.7	324
13	Application of calcium phosphatenanoparticles in biomedicine. <i>Journal of Materials Chemistry</i> , 2010, 20, 18-23.	6.7	305
14	The dissolution and biological effects of silver nanoparticles in biological media. <i>Journal of Materials Chemistry B</i> , 2014, 2, 1634.	2.9	305
15	Calcium Phosphate Crystals Induce Cell Death in Human Vascular Smooth Muscle Cells. <i>Circulation Research</i> , 2008, 103, e28-34.	2.0	280
16	Synthesis, Structure, Properties, and Applications of Bimetallic Nanoparticles of Noble Metals. <i>Advanced Functional Materials</i> , 2020, 30, 1909260.	7.8	274
17	Continuous synthesis of amorphous carbonated apatites. <i>Biomaterials</i> , 2002, 23, 2553-2559.	5.7	266
18	Effective transfection of cells with multi-shell calcium phosphate-DNA nanoparticles. <i>Biomaterials</i> , 2006, 27, 3147-3153.	5.7	265

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19	Silver nanoparticles with different size and shape: equal cytotoxicity, but different antibacterial effects. <i>RSC Advances</i> , 2016, 6, 18490-18501.	1.7	244
20	Comparison of different characterization methods for nanoparticle dispersions before and after aerosolization. <i>Analytical Methods</i> , 2014, 6, 7324.	1.3	232
21	The composition of the exoskeleton of two crustacea: The American lobster <i>Homarus americanus</i> and the edible crab <i>Cancer pagurus</i> . <i>Thermochimica Acta</i> , 2007, 463, 65-68.	1.2	220
22	Studies on the biocompatibility and the interaction of silver nanoparticles with human mesenchymal stem cells (hMSCs). <i>Langenbeck's Archives of Surgery</i> , 2009, 394, 495-502.	0.8	217
23	The influence of proteins on the dispersability and cell-biological activity of silver nanoparticles. <i>Journal of Materials Chemistry</i> , 2010, 20, 512-518.	6.7	192
24	Calcium Carbonate Modifications in the Mineralized Shell of the Freshwater Snail <i>Biomphalaria glabrata</i> . <i>Chemistry - A European Journal</i> , 2000, 6, 3679-3685.	1.7	184
25	The structure of bone studied with synchrotron X-ray diffraction, X-ray absorption spectroscopy and thermal analysis. <i>Thermochimica Acta</i> , 2000, 361, 131-138.	1.2	181
26	On the Structure of Amorphous Calcium Carbonate—A Detailed Study by Solid-State NMR Spectroscopy. <i>Inorganic Chemistry</i> , 2008, 47, 7874-7879.	1.9	178
27	Possibilities and limitations of different analytical methods for the size determination of a bimodal dispersion of metallic nanoparticles. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2011, 377, 386-392.	2.3	168
28	Precipitation with polyethylene glycol followed by washing and pelleting by ultracentrifugation enriches extracellular vesicles from tissue culture supernatants in small and large scales. <i>Journal of Extracellular Vesicles</i> , 2018, 7, 1528109.	5.5	164
29	Biologically and chemically optimized composites of carbonated apatite and polyglycolide as bone substitution materials. <i>Journal of Biomedical Materials Research Part B</i> , 2001, 54, 162-171.	3.0	163
30	A novel method to produce hydroxyapatite objects with interconnecting porosity that avoids sintering. <i>Biomaterials</i> , 2004, 25, 3335-3340.	5.7	153
31	Structure, composition, and mechanical properties of shark teeth. <i>Journal of Structural Biology</i> , 2012, 178, 290-299.	1.3	144
32	Transfection of cells with custom-made calcium phosphate nanoparticles coated with DNA. <i>Journal of Materials Chemistry</i> , 2004, 14, 2213.	6.7	142
33	The mineral phase in the cuticles of two species of Crustacea consists of magnesium calcite, amorphous calcium carbonate, and amorphous calcium phosphate. <i>Dalton Transactions</i> , 2005, , 1814.	1.6	136
34	Cell type-specific responses of peripheral blood mononuclear cells to silver nanoparticles. <i>Acta Biomaterialia</i> , 2011, 7, 3505-3514.	4.1	133
35	Lanthanide-doped calcium phosphate nanoparticles with high internal crystallinity and with a shell of DNA as fluorescent probes in cell experiments. <i>Journal of Materials Chemistry</i> , 2007, 17, 4153.	6.7	132
36	Nanoparticle-Protein Interactions: Therapeutic Approaches and Supramolecular Chemistry. <i>Accounts of Chemical Research</i> , 2017, 50, 1383-1390.	7.6	131

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37	Review of potential health risks associated with nanoscopic calcium phosphate. <i>Acta Biomaterialia</i> , 2018, 77, 1-14.	4.1	125
38	The use of calcium phosphate nanoparticles encapsulating Toll-like receptor ligands and the antigen hemagglutinin to induce dendritic cell maturation and T _H cell activation. <i>Biomaterials</i> , 2010, 31, 5627-5633.	5.7	123
39	The relevance of biomaterials to the prevention and treatment of osteoporosis. <i>Acta Biomaterialia</i> , 2014, 10, 1793-1805.	4.1	120
40	Carbonated calcium phosphates are suitable pH-stabilising fillers for biodegradable polyesters. <i>Biomaterials</i> , 2003, 24, 2037-2043.	5.7	119
41	PVP-coated, negatively charged silver nanoparticles: A multi-center study of their physicochemical characteristics, cell culture and in vivo experiments. <i>Beilstein Journal of Nanotechnology</i> , 2014, 5, 1944-1965.	1.5	119
42	Easy assessment of the biocompatibility of NiTi alloys by in vitro cell culture experiments on a functionally graded NiTi material. <i>Biomaterials</i> , 2002, 23, 4549-4555.	5.7	115
43	Mechanism of the uptake of cationic and anionic calcium phosphate nanoparticles by cells. <i>Acta Biomaterialia</i> , 2013, 9, 7527-7535.	4.1	113
44	Functionalisation of calcium phosphate nanoparticles by oligonucleotides and their application for gene silencing. <i>Journal of Materials Chemistry</i> , 2007, 17, 721-727.	6.7	108
45	The preparation of calcium phosphate coatings on titanium and nickel-titanium by rf-magnetron-sputtered deposition: Composition, structure and micromechanical properties. <i>Surface and Coatings Technology</i> , 2008, 202, 3913-3920.	2.2	107
46	Calcium phosphate nanoparticles as efficient carriers for photodynamic therapy against cells and bacteria. <i>Biomaterials</i> , 2009, 30, 3324-3331.	5.7	106
47	Large-area, uniform, high-spatial-frequency ripples generated on silicon using a nanosecond laser at high repetition rate. <i>Optics Letters</i> , 2011, 36, 229.	1.7	106
48	Colonic gene silencing using siRNA-loaded calcium phosphate/PLGA nanoparticles ameliorates intestinal inflammation in vivo. <i>Journal of Controlled Release</i> , 2016, 222, 86-96.	4.8	106
49	Calcium phosphate coating of nickel-titanium shape-memory alloys. Coating procedure and adherence of leukocytes and platelets. <i>Biomaterials</i> , 2003, 24, 3689-3696.	5.7	103
50	Structural characterisation of X-ray amorphous calcium carbonate (ACC) in sternal deposits of the crustacea <i>Porcellio scaber</i> . <i>Dalton Transactions</i> , 2003, , 551-555.	1.6	103
51	The use of size-defined DNA-functionalized calcium phosphate nanoparticles to minimise intracellular calcium disturbance during transfection. <i>Biomaterials</i> , 2009, 30, 6794-6802.	5.7	101
52	Morphological characterization and in vitro biocompatibility of a porous nickel-titanium alloy. <i>Biomaterials</i> , 2005, 26, 5801-5807.	5.7	100
53	Cell targeting by antibody-functionalized calcium phosphate nanoparticles. <i>Journal of Materials Chemistry</i> , 2012, 22, 396-404.	6.7	97
54	Basic Principles of Thermoanalytical Techniques and Their Applications in Preparative Chemistry. <i>Angewandte Chemie International Edition in English</i> , 1995, 34, 1171-1187.	4.4	95

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55	Die biologische und medizinische Bedeutung von Calciumphosphaten. <i>Angewandte Chemie</i> , 2002, 114, 3260-3277.	1.6	94
56	The influence of the deposition parameters on the properties of an rf-magnetron-deposited nanostructured calcium phosphate coating and a possible growth mechanism. <i>Surface and Coatings Technology</i> , 2011, 205, 3600-3606.	2.2	94
57	Accumulation of silver nanoparticles by cultured primary brain astrocytes. <i>Nanotechnology</i> , 2011, 22, 375101.	1.3	93
58	Targeting sphingosine-1-phosphate lyase as an anabolic therapy for bone loss. <i>Nature Medicine</i> , 2018, 24, 667-678.	15.2	93
59	EARLY MINERALIZATION IN BIOMPHALARIA GLABRATA: MICROSCOPIC AND STRUCTURAL RESULTS. <i>Journal of Molluscan Studies</i> , 2003, 69, 113-121.	0.4	92
60	Geometrically structured implants for cranial reconstruction made of biodegradable polyesters and calcium phosphate/calcium carbonate. <i>Biomaterials</i> , 2004, 25, 1239-1247.	5.7	91
61	Structural Evolution of Silver Nanoparticles during Wet-Chemical Synthesis. <i>Chemistry of Materials</i> , 2014, 26, 951-957.	3.2	91
62	A Critical Review of Modern Concepts for Teeth Whitening. <i>Dentistry Journal</i> , 2019, 7, 79.	0.9	90
63	3D biodegradable scaffolds of polycaprolactone with silicate-containing hydroxyapatite microparticles for bone tissue engineering: high-resolution tomography and in vitro study. <i>Scientific Reports</i> , 2018, 8, 8907.	1.6	88
64	Piezoelectric 3-D Fibrous Poly(3-hydroxybutyrate)-Based Scaffolds Ultrasound-Mineralized with Calcium Carbonate for Bone Tissue Engineering: Inorganic Phase Formation, Osteoblast Cell Adhesion, and Proliferation. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 19522-19533.	4.0	88
65	In vitro Synthesis and Structural Characterization of Amorphous Calcium Carbonate. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2005, 631, 2830-2835.	0.6	87
66	The resorption of nanocrystalline calcium phosphates by osteoclast-like cells. <i>Acta Biomaterialia</i> , 2010, 6, 3223-3233.	4.1	87
67	How Size Determines the Value of Gold: Economic Aspects of Wet Chemical and Laser-Based Metal Colloid Synthesis. <i>ChemPhysChem</i> , 2017, 18, 1012-1019.	1.0	84
68	The structure of an RF-magnetron sputter-deposited silicate-containing hydroxyapatite-based coating investigated by high-resolution techniques. <i>Surface and Coatings Technology</i> , 2013, 218, 39-46.	2.2	83
69	Immunization with Biodegradable Nanoparticles Efficiently Induces Cellular Immunity and Protects against Influenza Virus Infection. <i>Journal of Immunology</i> , 2013, 190, 6221-6229.	0.4	81
70	The composition of the mineralized cuticle in marine and terrestrial isopods: A comparative study. <i>CrystEngComm</i> , 2007, 9, 1245.	1.3	80
71	miR-542b exerts tumor suppressive functions in neuroblastoma by downregulating <i>urvivin</i> . <i>International Journal of Cancer</i> , 2015, 136, 1308-1320.	2.3	78
72	Effect of silver nanoparticles on human mesenchymal stem cell differentiation. <i>Beilstein Journal of Nanotechnology</i> , 2014, 5, 2058-2069.	1.5	77

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73	Colloidal Stability and Surface Chemistry Are Key Factors for the Composition of the Protein Corona of Inorganic Gold Nanoparticles. <i>Advanced Functional Materials</i> , 2017, 27, 1701956.	7.8	76
74	Continuous preparation of functionalised calcium phosphate nanoparticles with adjustable crystallinity. <i>Chemical Communications</i> , 2004, , 1204.	2.2	75
75	Gold nanoparticles: dispersibility in biological media and cell-biological effect. <i>Journal of Materials Chemistry</i> , 2010, 20, 6176.	6.7	75
76	Targeting and activation of antigen-specific B-cells by calcium phosphate nanoparticles loaded with protein antigen. <i>Biomaterials</i> , 2014, 35, 6098-6105.	5.7	71
77	Effect of hydroxyapatite on the biodegradation and biomechanical stability of polyester nanocomposites for orthopaedic applications. <i>Acta Biomaterialia</i> , 2010, 6, 763-775.	4.1	70
78	Nanoparticles as transfection agents: a comprehensive study with ten different cell lines. <i>RSC Advances</i> , 2016, 6, 18102-18112.	1.7	70
79	Mechanically stable implants of synthetic bone mineral by cold isostatic pressing. <i>Biomaterials</i> , 2003, 24, 4565-4571.	5.7	69
80	Silver, gold, and alloyed silver-gold nanoparticles: characterization and comparative cell-biologic action. <i>Journal of Nanoparticle Research</i> , 2012, 14, 1.	0.8	69
81	Fabrication, ultra-structure characterization and in vitro studies of RF magnetron sputter deposited nano-hydroxyapatite thin films for biomedical applications. <i>Applied Surface Science</i> , 2014, 317, 172-180.	3.1	69
82	Freeze-dried cationic calcium phosphatenanorods as versatile carriers of nucleic acids (DNA, siRNA). <i>Journal of Materials Chemistry</i> , 2012, 22, 199-204.	6.7	67
83	Multifunctional calcium phosphate nanoparticles for combining near-infrared fluorescence imaging and photodynamic therapy. <i>Acta Biomaterialia</i> , 2015, 14, 197-207.	4.1	67
84	The Potential of Powder Metallurgy for the Fabrication of Biomaterials on the Basis of Nickel-Titanium: A Case Study with a Staple Showing Shape Memory Behaviour. <i>Advanced Engineering Materials</i> , 2005, 7, 613-619.	1.6	66
85	Upregulation of Metallothioneins After Exposure of Cultured Primary Astrocytes to Silver Nanoparticles. <i>Neurochemical Research</i> , 2012, 37, 1639-1648.	1.6	66
86	Silver-doped calcium phosphate nanoparticles: Synthesis, characterization, and toxic effects toward mammalian and prokaryotic cells. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 102, 724-729.	2.5	66
87	Monohydrocalcite and Its Relationship to Hydrated Amorphous Calcium Carbonate in Biominerals. <i>European Journal of Inorganic Chemistry</i> , 2007, 2007, 1953-1957.	1.0	65
88	Continuous Preparation of Calcite, Aragonite and Vaterite, and of Magnesium-Substituted Amorphous Calcium Carbonate (Mg-ACC). <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2008, 634, 1439-1443.	0.6	65
89	Composites of Calcium Phosphate and Polymers as Bone Substitution Materials. <i>European Journal of Trauma and Emergency Surgery</i> , 2006, 32, 125-131.	0.3	64
90	X-ray Microcomputer Tomography for the Study of Biomineralized Endo- and Exoskeletons of Animals. <i>Chemical Reviews</i> , 2008, 108, 4734-4741.	23.0	64

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91	Synthesis of PVP-coated silver nanoparticles and their biological activity towards human mesenchymal stem cells. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2009, 40, 258-264.	0.5	64
92	Ultrastructural organization and micromechanical properties of shark tooth enameloid. <i>Acta Biomaterialia</i> , 2014, 10, 3959-3968.	4.1	64
93	Fetuin-A and Albumin Alter Cytotoxic Effects of Calcium Phosphate Nanoparticles on Human Vascular Smooth Muscle Cells. <i>PLoS ONE</i> , 2014, 9, e97565.	1.1	62
94	Synthesis of nanosized hydroxyapatite/agarose powders for bone filler and drug delivery application. <i>Materials Today Communications</i> , 2016, 8, 31-40.	0.9	62
95	Rational Design of β -Sheet Ligands Against $\text{A}\beta_{42}$ -Induced Toxicity. <i>Journal of the American Chemical Society</i> , 2011, 133, 4348-4358.	6.6	61
96	Incorporation of silver nanoparticles into magnetron-sputtered calcium phosphate layers on titanium as an antibacterial coating. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 156, 104-113.	2.5	61
97	The release of nickel from nickel-titanium (NiTi) is strongly reduced by a sub-micrometer thin layer of calcium phosphate deposited by rf-magnetron sputtering. <i>Journal of Materials Science: Materials in Medicine</i> , 2010, 21, 1233-1239.	1.7	60
98	Shape-Dependent Dissolution and Cellular Uptake of Silver Nanoparticles. <i>Langmuir</i> , 2018, 34, 1506-1519.	1.6	60
99	Grundlagen der Thermischen Analysetechniken und ihre Anwendungen in der präparativen Chemie. <i>Angewandte Chemie</i> , 1995, 107, 1284-1301.	1.6	59
100	Dental pulp stem cells in chitosan/gelatin scaffolds for enhanced orofacial bone regeneration. <i>Dental Materials</i> , 2019, 35, 310-327.	1.6	58
101	A comparative study of clinically well-characterized human atherosclerotic plaques with histological, chemical, and ultrastructural methods. <i>Journal of Inorganic Biochemistry</i> , 2004, 98, 2032-2038.	1.5	57
102	Chlorhexidine-loaded calcium phosphatenanoparticles for dental maintenance treatment: combination of mineralising and antibacterial effects. <i>RSC Advances</i> , 2012, 2, 870-875.	1.7	57
103	Biological and Medical Applications of Calcium Phosphate Nanoparticles. <i>Chemistry - A European Journal</i> , 2021, 27, 7471-7488.	1.7	57
104	Ultrastructure and mineral distribution in the tergal cuticle of the terrestrial isopod <i>Titanethes albus</i> . Adaptations to a karst cave biotope. <i>Journal of Structural Biology</i> , 2009, 168, 426-436.	1.3	56
105	Nanostructure of wet-chemically prepared, polymer-stabilized silver-gold nanoalloys (6 nm) over the entire composition range. <i>Journal of Materials Chemistry B</i> , 2015, 3, 4654-4662.	2.9	56
106	Interaction of dermatologically relevant nanoparticles with skin cells and skin. <i>Beilstein Journal of Nanotechnology</i> , 2014, 5, 2363-2373.	1.5	55
107	Mimicking exposures to acute and lifetime concentrations of inhaled silver nanoparticles by two different in vitro approaches. <i>Beilstein Journal of Nanotechnology</i> , 2014, 5, 1357-1370.	1.5	55
108	Transport of ultrasmall gold nanoparticles (2 nm) across the blood-brain barrier in a six-cell brain spheroid model. <i>Scientific Reports</i> , 2020, 10, 18033.	1.6	55

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109	A detailed characterization of polyglycolide prepared by solid-state polycondensation reaction. <i>Macromolecular Chemistry and Physics</i> , 1999, 200, 2221-2229.	1.1	54
110	Calcium phosphate nanoparticles with adjustable dispersability and crystallinity. <i>Journal of Materials Chemistry</i> , 2009, 19, 2166.	6.7	54
111	SiRNA-loaded multi-shell nanoparticles incorporated into a multilayered film as a reservoir for gene silencing. <i>Biomaterials</i> , 2010, 31, 6013-6018.	5.7	53
112	An <i>in situ</i> SAXS investigation of the formation of silver nanoparticles and bimetallic silver-gold nanoparticles in controlled wet-chemical reduction synthesis. <i>Nanoscale Advances</i> , 2020, 2, 225-238.	2.2	53
113	Cytotoxic and proinflammatory effects of PVP-coated silver nanoparticles after intratracheal instillation in rats. <i>Beilstein Journal of Nanotechnology</i> , 2013, 4, 933-940.	1.5	52
114	Magnesium alcoholates as precursors for magnesia. <i>Journal of Materials Chemistry</i> , 1995, 5, 589.	6.7	51
115	Ultrastructure and mineral distribution in the tergite cuticle of the beach isopod <i>Tylos europaeus</i> Arcangeli, 1938. <i>Journal of Structural Biology</i> , 2011, 174, 512-526.	1.3	51
116	Electrochemistry at single bimetallic nanoparticles using nano impacts for sizing and compositional analysis of individual AgAu alloy nanoparticles. <i>Faraday Discussions</i> , 2016, 193, 327-338.	1.6	51
117	Hybrid biocomposites based on titania nanotubes and a hydroxyapatite coating deposited by RF-magnetron sputtering: Surface topography, structure, and mechanical properties. <i>Applied Surface Science</i> , 2017, 426, 229-237.	3.1	51
118	Ultrasmall gold nanoparticles (2 nm) can penetrate and enter cell nuclei in an <i>in vitro</i> 3D brain spheroid model. <i>Acta Biomaterialia</i> , 2020, 111, 349-362.	4.1	51
119	Synthesis and characterization of DNA-functionalized calcium phosphate nanoparticles. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2006, 37, 441-445.	0.5	50
120	A new tool for the transfection of corneal endothelial cells: Calcium phosphate nanoparticles. <i>Acta Biomaterialia</i> , 2012, 8, 1156-1163.	4.1	50
121	<i>In vitro</i> and <i>in vivo</i> interactions of selected nanoparticles with rodent serum proteins and their consequences in biokinetics. <i>Beilstein Journal of Nanotechnology</i> , 2014, 5, 1699-1711.	1.5	50
122	Biomimetic Crystallization of Apatite in a Porous Polymer Matrix. <i>Chemistry - A European Journal</i> , 1998, 4, 1898-1903.	1.7	49
123	Quantifying the influence of polymer coatings on the serum albumin corona formation around silver and gold nanoparticles. <i>Journal of Nanoparticle Research</i> , 2012, 14, 1.	0.8	49
124	Live-cell imaging to compare the transfection and gene silencing efficiency of calcium phosphate nanoparticles and a liposomal transfection agent. <i>Gene Therapy</i> , 2017, 24, 282-289.	2.3	49
125	RF magnetron sputtering of a hydroxyapatite target: A comparison study on polytetrafluorethylene and titanium substrates. <i>Applied Surface Science</i> , 2017, 414, 335-344.	3.1	49
126	Calcium sulfate hemihydrate in statoliths of deep-sea medusae. <i>Dalton Transactions RSC</i> , 2002, , 1266-1268.	2.3	48

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127	The release of nickel from orthodontic NiTi wires is increased by dynamic mechanical loading but not constrained by surface nitridation. <i>Journal of Biomedical Materials Research - Part A</i> , 2007, 82A, 731-739.	2.1	48
128	Preparation of a silicate-containing hydroxyapatite-based coating by magnetron sputtering: structure and osteoblast-like MG63 cells in vitro study. <i>RSC Advances</i> , 2013, 3, 11240.	1.7	48
129	Functionalization of titania nanotubes with electrophoretically deposited silver and calcium phosphate nanoparticles: Structure, composition and antibacterial assay. <i>Materials Science and Engineering C</i> , 2019, 97, 420-430.	3.8	48
130	The Crystallization of Fluoroapatite Dumbbells from Supersaturated Aqueous Solution. <i>Crystal Growth and Design</i> , 2006, 6, 498-506.	1.4	47
131	Synthesis of fluorescent core-shell hydroxyapatite nanoparticles. <i>Journal of Materials Chemistry</i> , 2011, 21, 1250-1254.	6.7	47
132	Quantitative determination of the composition of multi-shell calcium phosphate-oligonucleotide nanoparticles and their application for the activation of dendritic cells. <i>Acta Biomaterialia</i> , 2011, 7, 4029-4036.	4.1	47
133	An easy synthesis of autofluorescent alloyed silver-gold nanoparticles. <i>Journal of Materials Chemistry B</i> , 2014, 2, 7887-7895.	2.9	47
134	Fabrication and physico-mechanical properties of thin magnetron sputter deposited silver-containing hydroxyapatite films. <i>Applied Surface Science</i> , 2016, 360, 929-935.	3.1	47
135	Decreased bacterial colonization of additively manufactured Ti6Al4V metallic scaffolds with immobilized silver and calcium phosphate nanoparticles. <i>Applied Surface Science</i> , 2019, 480, 822-829.	3.1	47
136	Fatigue of orthodontic nickel-titanium (NiTi) wires in different fluids under constant mechanical stress. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004, 378, 110-114.	2.6	46
137	Amorphous and crystalline calcium carbonate distribution in the tergite cuticle of moulting <i>Porcellio scaber</i> (Isopoda, Crustacea). <i>Journal of Structural Biology</i> , 2011, 175, 10-20.	1.3	46
138	Calcium phosphate nanoparticles as templates for nanocapsules prepared by the layer-by-layer technique. <i>Journal of Materials Chemistry</i> , 2008, 18, 3831.	6.7	45
139	An outer shell of positively charged poly(ethyleneimine) strongly increases the transfection efficiency of calcium phosphate/DNA nanoparticles. <i>Journal of Materials Science</i> , 2010, 45, 4952-4957.	1.7	45
140	Prophylactic and therapeutic vaccination with a nanoparticle-based peptide vaccine induces efficient protective immunity during acute and chronic retroviral infection. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2014, 10, 1787-1798.	1.7	45
141	The potential of nanoparticles for the immunization against viral infections. <i>Journal of Materials Chemistry B</i> , 2015, 3, 4767-4779.	2.9	45
142	Polysulfonilamine. XL Darstellung von Silber(I)-disulfonilamid-Acetonitril-Komplexen. Röntgenstrukturanalytische und thermochemische Charakterisierung von Tetraacetonitrilsilber(I)-bis(dimesylamido)argentat(I) und von (1,1,3,3-Tetraoxo-1,3,2-benzodithiazolido)acetonitrilsilber(I). <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 1993, 619, 912-922.	0.6	44
143	Calcium phosphate nanoparticles: colloidally stabilized and made fluorescent by a phosphate-functionalized porphyrin. <i>Journal of Materials Chemistry</i> , 2008, 18, 3655.	6.7	44
144	Synthetic pathways to make nanoparticles fluorescent. <i>Nanoscale</i> , 2011, 3, 1957.	2.8	44

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145	Chemical composition of surface-functionalized gold nanoparticles. <i>Journal of Nanoparticle Research</i> , 2011, 13, 4809-4814.	0.8	44
146	Direct experimental observation of the aggregation of α -amino acids into 100–200 nm clusters in aqueous solution. <i>RSC Advances</i> , 2012, 2, 4690.	1.7	44
147	Calcium phosphate nanoparticles as versatile carrier for small and large molecules across cell membranes. <i>Journal of Nanoparticle Research</i> , 2012, 14, 1.	0.8	44
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