

Matthias Epple

List of Publications by Year in Descending Order

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Version: 2024-04-26

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

487
papers

21,740
citations

65
h-index

131
g-index

535
ext. papers

24,464
ext. citations

5
avg, IF

7.27
L-index

#	Paper	IF	Citations
487	Bioceramic nanoparticles in tissue engineering and drug delivery 2022 , 727-742		
486	Prevention of Caries and Dental Erosion by Fluorides-A Critical Discussion Based on Physico-Chemical Data and Principles.. <i>Dentistry Journal</i> , 2022 , 10,	3.1	2
485	Reactivity of NK Cells Against Ovarian Cancer Cells Is Maintained in the Presence of Calcium Phosphate Nanoparticles.. <i>Frontiers in Immunology</i> , 2022 , 13, 830938	8.4	
484	Automated and manual classification of metallic nanoparticles with respect to size and shape by analysis of scanning electron micrographs. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2022 , 53, 270-283	0.9	2
483	Covalent Coupling of HIV-1 Glycoprotein Trimers to Biodegradable Calcium Phosphate Nanoparticles via Genetically Encoded Aldehyde-Tags.. <i>Acta Biomaterialia</i> , 2021 , 140, 586-586	10.8	0
482	An Efficient Method for Covalent Surface Functionalization of Ultrasmall Metallic Nanoparticles by Surface Azidation Followed by Copper-Catalyzed Azide-Alkyne Cycloaddition (Click Chemistry). <i>ChemNanoMat</i> , 2021 , 7, 1330	3.5	2
481	New Tools to Probe the Protein Surface: Ultrasmall Gold Nanoparticles Carry Amino Acid Binders. <i>Journal of Physical Chemistry B</i> , 2021 , 125, 115-127	3.4	3
480	Cell-biological effects of zinc oxide spheres and rods from the nano- to the microscale at sub-toxic levels. <i>Cell Biology and Toxicology</i> , 2021 , 37, 573-593	7.4	9
479	Biological and Medical Applications of Calcium Phosphate Nanoparticles. <i>Chemistry - A European Journal</i> , 2021 , 27, 7471-7488	4.8	16
478	Teeth of Past and Present Elephants: Microstructure and Composition of Enamel in Fossilized Proboscidean Molars and Implications for Diagenesis. <i>Geochemistry, Geophysics, Geosystems</i> , 2021 , 22, e2020GC009557	3.6	3
477	Physical principles of radio-frequency magnetron sputter deposition of calcium-phosphate-based coating with tailored properties. <i>Surface and Coatings Technology</i> , 2021 , 413, 127098	4.4	7
476	The effect of short silica fibers (0.3µm-3.2µm) on macrophages. <i>Science of the Total Environment</i> , 2021 , 769, 144575	10.2	0
475	Metal-Ligand Interface and Internal Structure of Ultrasmall Silver Nanoparticles (2 nm). <i>Journal of Physical Chemistry B</i> , 2021 , 125, 5645-5659	3.4	3
474	Frontispiece: Biological and Medical Applications of Calcium Phosphate Nanoparticles. <i>Chemistry - A European Journal</i> , 2021 , 27,	4.8	1
473	Quantitative Estimation of Cyclotide-Induced Bilayer Membrane Disruption by Lipid Extraction with Mesoscopic Simulation. <i>Journal of Chemical Information and Modeling</i> , 2021 , 61, 3027-3040	6.1	0
472	A New Water-Soluble Thermosensitive Star-Like Copolymer as a Promising Carrier of the Chemotherapeutic Drug Doxorubicin. <i>Materials</i> , 2021 , 14,	3.5	2
471	Hybrid chitosan/gelatin/nanohydroxyapatite scaffolds promote odontogenic differentiation of dental pulp stem cells and in vitro biomineralization. <i>Dental Materials</i> , 2021 , 37, e23-e36	5.7	15

470	Gene transfection achieved by utilizing antibacterial calcium phosphate nanoparticles for enhanced regenerative therapy. <i>Acta Biomaterialia</i> , 2021 , 119, 375-389	10.8	4
469	Targeting the Surface of the Protein 14-3-3 by Ultrasmall (1.5 nm) Gold Nanoparticles Carrying the Specific Peptide CRaf. <i>ChemBioChem</i> , 2021 , 22, 1456-1463	3.8	7
468	Suppositories with bioactive calcium phosphate nanoparticles for intestinal transfection and gene silencing. <i>Nano Select</i> , 2021 , 2, 561-572	3.1	2
467	Controlling the Surface Functionalization of Ultrasmall Gold Nanoparticles by Sequence-Defined Macromolecules. <i>Chemistry - A European Journal</i> , 2021 , 27, 1451-1464	4.8	7
466	The dorsal tergite cuticle of Ultrastructure, mineral distribution, calcite microstructure and texture. <i>Journal of Structural Biology: X</i> , 2021 , 5, 100051	2.9	0
465	Peptide-Conjugated Ultrasmall Gold Nanoparticles (2 nm) for Selective Protein Targeting. <i>ACS Applied Bio Materials</i> , 2021 , 4, 945-965	4.1	5
464	Colloidal stability, cytotoxicity, and cellular uptake of HfO nanoparticles. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2021 , 109, 1407-1417	3.5	1
463	Porous Zirconia/Magnesia Ceramics Support Osteogenic Potential In Vitro. <i>Materials</i> , 2021 , 14,	3.5	1
462	Delivery of toll-like receptor 3 ligand poly(I:C) to the liver by calcium phosphate nanoparticles conjugated with an F4/80 antibody exerts an anti-hepatitis B virus effect in a mouse model. <i>Acta Biomaterialia</i> , 2021 , 133, 297-307	10.8	3
461	A Combination of Anti-PD-L1 Treatment and Therapeutic Vaccination Facilitates Improved Retroviral Clearance via Reactivation of Highly Exhausted T Cells. <i>MBio</i> , 2021 , 12,	7.8	2
460	Cariogenic Biofilms: Development, Properties, and Biomimetic Preventive Agents. <i>Dentistry Journal</i> , 2021 , 9,	3.1	6
459	Pathways for Oral and Rectal Delivery of Gold Nanoparticles (1.7 nm) and Gold Nanoclusters into the Colon: Enteric-Coated Capsules and Suppositories. <i>Molecules</i> , 2021 , 26,	4.8	1
458	Coating of cochlear implant electrodes with bioactive DNA-loaded calcium phosphate nanoparticles for the local transfection of stimulatory proteins. <i>Biomaterials</i> , 2021 , 276, 121009	15.6	2
457	Silica-coated calcium phosphate nanoparticles for gene silencing of NF- κ B p65 by siRNA and their impact on cellular players of inflammation. <i>Biomaterials</i> , 2021 , 276, 121013	15.6	1
456	Functionalization of additive-manufactured Ti6Al4V scaffolds with poly(allylamine hydrochloride)/poly(styrene sulfonate) bilayer microcapsule system containing dexamethasone. <i>Materials Chemistry and Physics</i> , 2021 , 273, 125099	4.4	1
455	Subtoxic cell responses to silica particles with different size and shape. <i>Scientific Reports</i> , 2020 , 10, 21591	4.9	11
454	MFsim-an open Java all-in-one rich-client simulation environment for mesoscopic simulation. <i>Journal of Cheminformatics</i> , 2020 , 12, 29	8.6	1
453	Ultrasmall gold nanoparticles (2nm) can penetrate and enter cell nuclei in an in vitro 3D brain spheroid model. <i>Acta Biomaterialia</i> , 2020 , 111, 349-362	10.8	21

452	Effective Activation of Human Antigen-Presenting Cells and Cytotoxic CD8 T Cells by a Calcium Phosphate-Based Nanoparticle Vaccine Delivery System. <i>Vaccines</i> , 2020 , 8,	5.3	13
451	Synthesis, Structure, Properties, and Applications of Bimetallic Nanoparticles of Noble Metals. <i>Advanced Functional Materials</i> , 2020 , 30, 1909260	15.6	102
450	Functional adaptations in the tergite cuticle of the desert isopod <i>Hemilepistus reaumuri</i> (Milne-Edwards, 1840). <i>Journal of Structural Biology</i> , 2020 , 212, 107570	3.4	3
449	Synthesis and intracellular tracing surface-functionalized calcium phosphate nanoparticles by super-resolution microscopy (STORM). <i>Materialia</i> , 2020 , 12, 100773	3.2	2
448	Development of a bone substitute material based on additive manufactured Ti6Al4V alloys modified with bioceramic calcium carbonate coating: Characterization and antimicrobial properties. <i>Ceramics International</i> , 2020 , 46, 25661-25670	5.1	8
447	Bactericidal activity and recovery effect of hydroxyl radicals generated by ultraviolet irradiation and silver ion application on an infected titanium surface. <i>Scientific Reports</i> , 2020 , 10, 8553	4.9	5
446	In situ synthesis of a binary Ti ₁₀ at% Nb alloy by electron beam melting using a mixture of elemental niobium and titanium powders. <i>Journal of Materials Processing Technology</i> , 2020 , 282, 116646	5.3	24
445	Reduction of inflammation in a chronic periodontitis model in rats by TNF- α gene silencing with a topically applied siRNA-loaded calcium phosphate paste. <i>Acta Biomaterialia</i> , 2020 , 105, 263-279	10.8	14
444	Genetic immunization against hepatitis B virus with calcium phosphate nanoparticles in vitro and in vivo. <i>Acta Biomaterialia</i> , 2020 , 110, 254-265	10.8	10
443	In vivo biodistribution of calcium phosphate nanoparticles after intravascular, intramuscular, intratumoral, and soft tissue administration in mice investigated by small animal PET/CT. <i>Acta Biomaterialia</i> , 2020 , 109, 244-253	10.8	23
442	Comparative Study of the Structure, Properties, and Corrosion Behavior of Sr-Containing Biocoatings on Mg _{0.8} Ca. <i>Materials</i> , 2020 , 13,	3.5	6
441	A pH-sensitive fluorescent protein sensor to follow the pathway of calcium phosphate nanoparticles into cells. <i>Acta Biomaterialia</i> , 2020 , 111, 406-417	10.8	15
440	An in situ 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	5.1	31
439	The impact of post manufacturing treatment of functionally graded Ti6Al4V scaffolds on their surface morphology and mechanical strength. <i>Journal of Materials Research and Technology</i> , 2020 , 9, 1866-1881	5.5	16
438	Temperature-Induced Stress Relaxation in Alloyed Silver-Gold Nanoparticles (78 nm) by in Situ X-ray Powder Diffraction. <i>Crystal Growth and Design</i> , 2020 , 20, 107-115	3.5	2
437	A Novel Branched Copolymer-Containing Anticancer Drug for Targeted Therapy: In Vitro Research. <i>BioNanoScience</i> , 2020 , 10, 249-259	3.4	4
436	Zn- or Cu-containing CaP-Based Coatings Formed by Micro-Arc Oxidation on Titanium and Ti-40Nb Alloy: Part II-Wettability and Biological Performance. <i>Materials</i> , 2020 , 13,	3.5	5
435	Zn- or Cu-Containing CaP-Based Coatings Formed by Micro-arc Oxidation on Titanium and Ti-40Nb Alloy: Part I-Microstructure, Composition and Properties. <i>Materials</i> , 2020 , 13,	3.5	8

434	Synthesis and characterization of PLGA/HAP scaffolds with DNA-functionalised calcium phosphate nanoparticles for bone tissue engineering. <i>Journal of Materials Science: Materials in Medicine</i> , 2020 , 31, 102	4.5	9
433	Ultrasmall gold and silver/gold nanoparticles (2 nm) as autofluorescent labels for poly(D,L-lactide-co-glycolide) nanoparticles (140 nm). <i>Journal of Materials Science: Materials in Medicine</i> , 2020 , 31, 117	4.5	6
432	Ab initio calculations and a scratch test study of RF-magnetron sputter deposited hydroxyapatite and silicon-containing hydroxyapatite coatings. <i>Surfaces and Interfaces</i> , 2020 , 21, 100727	4.1	3
431	Transport of ultrasmall gold nanoparticles (2nm) across the blood-brain barrier in a six-cell brain spheroid model. <i>Scientific Reports</i> , 2020 , 10, 18033	4.9	14
430	Enteric Coating Systems for the Oral Administration of Bioactive Calcium Phosphate Nanoparticles Carrying Nucleic Acids into the Colon. <i>ChemistrySelect</i> , 2020 , 5, 9720-9729	1.8	2
429	Enhanced dissolution of silver nanoparticles in a physical mixture with platinum nanoparticles based on the sacrificial anode effect. <i>Nanotechnology</i> , 2020 , 31, 055703	3.4	5
428	In Vivo Effects of a Hydroxyapatite-Based Oral Care Gel on the Calcium and Phosphorus Levels of Dental Plaque. <i>European Journal of Dentistry</i> , 2020 , 14, 206-211	2.6	13
427	Calcium Phosphate Bone Graft Substitutes with High Mechanical Load Capacity and High Degree of Interconnecting Porosity. <i>Materials</i> , 2019 , 12,	3.5	6
426	X-ray powder diffraction to analyse bimetallic core-shell nanoparticles (gold and palladium; 7-8 nm).. <i>RSC Advances</i> , 2019 , 9, 26628-26636	3.7	6
425	Calcium Phosphate Nanoparticle-Based Vaccines as a Platform for Improvement of HIV-1 Env Antibody Responses by Intrastructural Help. <i>Nanomaterials</i> , 2019 , 9,	5.4	15
424	Biomimetic fabrication of mineralized composite films of nanosilver loaded native fibrillar collagen and chitosan. <i>Materials Science and Engineering C</i> , 2019 , 99, 357-366	8.3	25
423	A bioactive nano-calcium phosphate paste for in-situ transfection of BMP-7 and VEGF-A in a rabbit critical-size bone defect: results of an in vivo study. <i>Journal of Materials Science: Materials in Medicine</i> , 2019 , 30, 15	4.5	15
422	Nanosopic Porous Iridium/Iridium Dioxide Superstructures (15 nm): Synthesis and Thermal Conversion by In Situ Transmission Electron Microscopy. <i>Chemistry - A European Journal</i> , 2019 , 25, 11048-11057 ¹	4.8	1
421	Synthesis of Metallic and Metal Oxide Particles. <i>Nanoscience and Technology</i> , 2019 , 3-27	0.6	2
420	Stability of Nanoparticle Dispersions and Particle Agglomeration. <i>Nanoscience and Technology</i> , 2019 , 85-100	0.6	4
419	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	9.5	51
418	Click Chemistry on the Surface of Ultrasmall Gold Nanoparticles (2 nm) for Covalent Ligand Attachment Followed by NMR Spectroscopy. <i>Langmuir</i> , 2019 , 35, 7191-7204	4	21
417	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	6.7	30

416	Covalent Surface Functionalization of Calcium Phosphate Nanoparticles with Fluorescent Dyes by Copper-Catalysed and by Strain-Promoted Azide-Alkyne Click Chemistry. <i>ChemNanoMat</i> , 2019 , 5, 436-446	3.5	17
415	Session 5: Biomaterials - Inorganic. <i>Biomedizinische Technik</i> , 2019 , 64, 36-40	1.3	
414	Combining Small-Angle X-ray Scattering and X-ray Powder Diffraction to Investigate Size, Shape and Crystallinity of Silver, Gold and Alloyed Silver-Gold Nanoparticles. <i>Brazilian Journal of Physics</i> , 2019 , 49, 183-190	1.2	5
413	Bimetallic silver-platinum nanoparticles with combined osteo-promotive and antimicrobial activity. <i>Nanotechnology</i> , 2019 , 30, 305101	3.4	23
412	Optimized biological tools: ultrastructure of rodent and bat teeth compared to human teeth. <i>Bioinspired, Biomimetic and Nanobiomaterials</i> , 2019 , 8, 247-253	1.3	0
411	A Tumor-Peptide-Based Nanoparticle Vaccine Elicits Efficient Tumor Growth Control in Antitumor Immunotherapy. <i>Molecular Cancer Therapeutics</i> , 2019 , 18, 1069-1080	6.1	19
410	Surface modification of Ti6Al4V alloy scaffolds manufactured by electron beam melting. <i>Journal of Physics: Conference Series</i> , 2019 , 1145, 012030	0.3	4
409	Glancing Angle Deposition of Zn-Doped Calcium Phosphate Coatings by RF Magnetron Sputtering. <i>Coatings</i> , 2019 , 9, 220	2.9	21
408	Surface functionalization of titanium with silver nanoparticles. <i>Journal of Physics: Conference Series</i> , 2019 , 1145, 012032	0.3	2
407	A Novel Nanoconjugate of Landomycin A with C Fullerene for Cancer Targeted Therapy: Studies. <i>Cellular and Molecular Bioengineering</i> , 2019 , 12, 41-51	3.9	12
406	A Critical Review of Modern Concepts for Teeth Whitening. <i>Dentistry Journal</i> , 2019 , 7,	3.1	36
405	In vitro study of the anticancer activity of various doxorubicin-containing dispersions. <i>BioImpacts</i> , 2019 , 9, 57-63	3.5	13
404	Assessment of cytotoxicity and antibacterial effects of silver nanoparticle-doped titanium alloy surfaces. <i>Dental Materials</i> , 2019 , 35, e220-e233	5.7	19
403	Influence of Calcium-Phosphate Coating on Wettability of Hybrid Piezoelectric Scaffolds. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019 , 597, 012061	0.4	1
402	Determination of the properties and loading efficiency of encapsulated BSA-FITC and dexamethasone for drug delivery systems. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019 , 597, 012056	0.4	
401	Dental pulp stem cells in chitosan/gelatin scaffolds for enhanced orofacial bone regeneration. <i>Dental Materials</i> , 2019 , 35, 310-327	5.7	39
400	Adhesion, proliferation, and osteogenic differentiation of human mesenchymal stem cells on additively manufactured Ti6Al4V alloy scaffolds modified with calcium phosphate nanoparticles. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019 , 176, 130-139	6	30
399	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	8.3	33

398	Induction of herpes simplex virus type 1 cell-to-cell spread inhibiting antibodies by a calcium phosphate nanoparticle-based vaccine. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2019 , 16, 138-148	6	11
397	Solution NMR Spectroscopy with Isotope-Labeled Cysteine (C and N) Reveals the Surface Structure of L-Cysteine-Coated Ultrasmall Gold Nanoparticles (1.8 nm). <i>Langmuir</i> , 2019 , 35, 767-778	4	17
396	Calcium phosphate nanoparticle-mediated transfection in 2D and 3D mono- and co-culture cell models. <i>Acta Biomaterialia</i> , 2019 , 84, 391-401	10.8	17
395	Deciphering the Surface Composition and the Internal Structure of Alloyed Silver-Gold Nanoparticles. <i>Chemistry - A European Journal</i> , 2018 , 24, 9051-9060	4.8	23
394	Moderne Zahnpflege aus chemischer Sicht. <i>Chemie in Unserer Zeit</i> , 2018 , 52, 218-228	0.2	12
393	Targeting sphingosine-1-phosphate lyase as an anabolic therapy for bone loss. <i>Nature Medicine</i> , 2018 , 24, 667-678	50.5	62
392	Calcium phosphate particles stimulate interleukin-1 β release from human vascular smooth muscle cells: A role for spleen tyrosine kinase and exosome release. <i>Journal of Molecular and Cellular Cardiology</i> , 2018 , 115, 82-93	5.8	26
391	Shape-Dependent Dissolution and Cellular Uptake of Silver Nanoparticles. <i>Langmuir</i> , 2018 , 34, 1506-1512	4	43
390	Crystallographic characterization of laser-generated, polymer-stabilized 4 nm silver-gold alloyed nanoparticles. <i>Materials Chemistry and Physics</i> , 2018 , 207, 442-450	4.4	29
389	Streptavidin-coated surfaces suppress bacterial colonization by inhibiting non-specific protein adsorption. <i>Journal of Biomedical Materials Research - Part A</i> , 2018 , 106, 758-768	5.4	6
388	Experimental variation of the level and the ratio of angiogenic and osteogenic signaling affects the spatiotemporal expression of bone-specific markers and organization of bone formation in ectopic sites. <i>Clinical Oral Investigations</i> , 2018 , 22, 1223-1234	4.2	3
387	Induction of Type I Interferons by Therapeutic Nanoparticle-Based Vaccination Is Indispensable to Reinforce Cytotoxic CD8 T Cell Responses During Chronic Retroviral Infection. <i>Frontiers in Immunology</i> , 2018 , 9, 614	8.4	15
386	Review of potential health risks associated with nanoscopic calcium phosphate. <i>Acta Biomaterialia</i> , 2018 , 77, 1-14	10.8	87
385	Wet-Chemical Synthesis of Pd-Au Core-Shell Nanoparticles (8 nm): From Nanostructure to Biological Properties. <i>ChemistrySelect</i> , 2018 , 3, 4994-5001	1.8	10
384	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	4.9	64
383	Synthetic Hydroxyapatite as a Biomimetic Oral Care Agent. <i>Oral Health & Preventive Dentistry</i> , 2018 , 16, 7-19	1.9	26
382	Synthesis and biological characterization of alloyed silver-platinum nanoparticles: from compact core-shell nanoparticles to hollow nanoalloys.. <i>RSC Advances</i> , 2018 , 8, 38582-38590	3.7	9
381	Deposition of polycrystalline zinc substituted hydroxyapatite coatings with a columnar structure by RF magnetron sputtering: role of in-situ substrate heating. <i>Journal of Physics: Conference Series</i> , 2018 , 1115, 032077	0.3	9

380	Enhanced selective cellular proliferation by multi-biofunctionalization of medical implant surfaces with heterodimeric BMP-2/6, fibronectin, and FGF-2. <i>Journal of Biomedical Materials Research - Part A</i> , 2018 , 106, 2910-2922	5.4	7
379	Comparative biological effects of spherical noble metal nanoparticles (Rh, Pd, Ag, Pt, Au) with 4-8 nm diameter. <i>Beilstein Journal of Nanotechnology</i> , 2018 , 9, 2763-2774	3	13
378	Improved Models for Metallic Nanoparticle Cores from Atomic Pair Distribution Function (PDF) Analysis. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 29498-29506	3.8	28
377	SPICES: a particle-based molecular structure line notation and support library for mesoscopic simulation. <i>Journal of Cheminformatics</i> , 2018 , 10, 35	8.6	2
376	A systematic electron microscopic study on the uptake of barium sulphate nano-, submicro-, microparticles by bone marrow-derived phagocytosing cells. <i>Acta Biomaterialia</i> , 2018 , 80, 352-363	10.8	7
375	Cytotoxicity of doxorubicin-conjugated poly[-(2-hydroxypropyl)methacrylamide]-modified Fe_3O_4 nanoparticles towards human tumor cells. <i>Beilstein Journal of Nanotechnology</i> , 2018 , 9, 2533-2545	3	7
374	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	16.4	92
373	Immobilization of cesium from aqueous solution using nanoparticles of synthetic calcium phosphates. <i>Chemistry Central Journal</i> , 2018 , 12, 87		2
372	Silver nanoparticles in complex media: an easy procedure to discriminate between metallic silver nanoparticles, reprecipitated silver chloride, and dissolved silver species.. <i>RSC Advances</i> , 2018 , 8, 24386-24391	3.7	19
371	Prolonged release of bone morphogenetic protein-2 in vivo by gene transfection with DNA-functionalized calcium phosphate nanoparticle-loaded collagen scaffolds. <i>Materials Science and Engineering C</i> , 2018 , 92, 172-183	8.3	23
370	Water-free synthesis of ZnO quantum dots for application as an electron injection layer in light-emitting electrochemical cells. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 2344-2351	7.1	23
369	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	3.2	56
368	Improvement of the Mechanical Properties of AZ91D Magnesium Alloys by Deposition of Thin Hydroxyapatite Film. <i>Nano Hybrids and Composites</i> , 2017 , 13, 355-361	0.7	4
367	Reply to the Comments on Dental lessons from past to present: ultrastructure and composition of teeth from plesiosaurs, dinosaurs, extinct and recent sharks by H. Botella et al., <i>RSC Adv.</i> , 2016, 6, 74384-74388. <i>RSC Advances</i> , 2017 , 7, 6215-6222	3.7	5
366	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	4	38
365	Peculiarities in thermal evolution of precipitated amorphous calcium phosphates with an initial Ca/P ratio of 1:1. <i>Journal of Materials Science: Materials in Medicine</i> , 2017 , 28, 52	4.5	4
364	Chemical and structural analysis of gallstones from the Indian subcontinent. <i>Materials Science and Engineering C</i> , 2017 , 78, 878-885	8.3	9
363	RF magnetron sputtering of a hydroxyapatite target: A comparison study on polytetrafluoroethylene and titanium substrates. <i>Applied Surface Science</i> , 2017 , 414, 335-344	6.7	36

362	Sand-blasting treatment as a way to improve the adhesion strength of hydroxyapatite coating on titanium implant. <i>Journal of Physics: Conference Series</i> , 2017 , 830, 012109	0.3	6
361	Nanoparticle-Protein Interactions: Therapeutic Approaches and Supramolecular Chemistry. <i>Accounts of Chemical Research</i> , 2017 , 50, 1383-1390	24.3	103
360	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	6	53
359	Avidin-conjugated calcium phosphate nanoparticles as a modular targeting system for the attachment of biotinylated molecules in vitro and in vivo. <i>Acta Biomaterialia</i> , 2017 , 57, 414-425	10.8	18
358	Amine-Functionalized Silica Nanoparticles Incorporating Covalently Linked Visible-Light-Excitable Eu ³⁺ Complexes: Synthesis, Characterization, and Cell-Uptake Studies. <i>European Journal of Inorganic Chemistry</i> , 2017 , 2017, 3205-3213	2.3	7
357	Nanoparticulate versus ionic silver: Behavior in the tank water, bioaccumulation, elimination and subcellular distribution in the freshwater mussel <i>Dreissena polymorpha</i> . <i>Environmental Pollution</i> , 2017 , 222, 251-260	9.3	6
356	Delivery of the TLR ligand poly(I:C) to liver cells in vitro and in vivo by calcium phosphate nanoparticles leads to a pronounced immunostimulation. <i>Acta Biomaterialia</i> , 2017 , 64, 401-410	10.8	32
355	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	15.6	53
354	Uptake of the proteins HTRA1 and HTRA2 by cells mediated by calcium phosphate nanoparticles. <i>Beilstein Journal of Nanotechnology</i> , 2017 , 8, 381-393	3	13
353	Intestinal helminth infection drives carcinogenesis in colitis-associated colon cancer. <i>PLoS Pathogens</i> , 2017 , 13, e1006649	7.6	26
352	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	6.7	42
351	Mechanical induction of bi-directional orientation of primary porcine bladder smooth muscle cells in tubular fibrin-poly(vinylidene fluoride) scaffolds for ureteral and urethral repair using cyclic and focal balloon catheter stimulation. <i>Journal of Biomaterials Applications</i> , 2017 , 32, 321-330	2.9	9
350	Local delivery of siRNA-loaded calcium phosphate nanoparticles abates pulmonary inflammation. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2017 , 13, 2395-2403	6	26
349	Mineral in skeletal elements of the terrestrial crustacean <i>Porcellio scaber</i> : SRIT of function related distribution and changes during the moult cycle. <i>Arthropod Structure and Development</i> , 2017 , 46, 63-76	1.8	8
348	Nanoparticle-based B-cell targeting vaccines: Tailoring of humoral immune responses by functionalization with different TLR-ligands. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2017 , 13, 173-182	6	26
347	Basics of magnesium biodegradation 2017 , 29-37		1
346	Delivery of the autofluorescent protein R-phycoerythrin by calcium phosphate nanoparticles into four different eukaryotic cell lines (HeLa, HEK293T, MG-63, MC3T3): Highly efficient, but leading to endolysosomal proteolysis in HeLa and MC3T3 cells. <i>PLoS ONE</i> , 2017 , 12, e0178260	3.7	15
345	Do we need retarded delivery of bone growth factors in facial bone repair? An experimental study in rats. <i>European Cells and Materials</i> , 2017 , 34, 162-179	4.3	8

344	Interaction of C60 fullerene complexed to doxorubicin with model bilipid membranes and its uptake by HeLa cells. <i>Materials Science and Engineering C</i> , 2016 , 59, 398-403	8.3	27
343	Barium sulfate micro- and nanoparticles as bioinert reference material in particle toxicology. <i>Nanotoxicology</i> , 2016 , 10, 1492-1502	5.3	11
342	Composites of fluoroapatite and methylmethacrylate-based polymers (PMMA) for biomimetic tooth replacement. <i>Bioinspiration and Biomimetics</i> , 2016 , 11, 035001	2.6	7
341	Synthesis of positively and negatively charged silver nanoparticles and their deposition on the surface of titanium. <i>IOP Conference Series: Materials Science and Engineering</i> , 2016 , 116, 012009	0.4	14
340	Mechano-Pharmacological Characterization of Cardiomyocytes Derived from Human Induced Pluripotent Stem Cells. <i>Cellular Physiology and Biochemistry</i> , 2016 , 38, 1182-98	3.9	20
339	Comparative evaluation of the sand blasting, acid etching and electron beam surface treatments of titanium for medical application 2016 ,		3
338	On the Crystallography of Silver Nanoparticles with Different Shapes. <i>Crystal Growth and Design</i> , 2016 , 16, 3677-3687	3.5	16
337	11th German Conference on Chemoinformatics (GCC 2015) : Fulda, Germany. 8-10 November 2015. <i>Journal of Cheminformatics</i> , 2016 , 8, 18	8.6	
336	Thermally induced crystallization and phase evolution in powders derived from amorphous calcium phosphate precipitates with a Ca/P ratio of 1:1. <i>Journal of Crystal Growth</i> , 2016 , 450, 190-196	1.6	14
335	Preface to the special issue of Materials Science and Engineering Technology. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2016 , 47, 77-77	0.9	
334	Fabrication and physico-mechanical properties of thin magnetron sputter deposited silver-containing hydroxyapatite films. <i>Applied Surface Science</i> , 2016 , 360, 929-935	6.7	43
333	Silver nanoparticles with different size and shape: equal cytotoxicity, but different antibacterial effects. <i>RSC Advances</i> , 2016 , 6, 18490-18501	3.7	173
332	Surface wettability and energy effects on the biological performance of poly-3-hydroxybutyrate films treated with RF plasma. <i>Materials Science and Engineering C</i> , 2016 , 62, 450-7	8.3	27
331	Nanoparticles as transfection agents: a comprehensive study with ten different cell lines. <i>RSC Advances</i> , 2016 , 6, 18102-18112	3.7	52
330	Conjugation of thiol-terminated molecules to ultrasmall 2 nm-gold nanoparticles leads to remarkably complex H-NMR spectra. <i>Journal of Materials Chemistry B</i> , 2016 , 4, 2179-2189	7.3	24
329	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	11.7	86
328	Calcium phosphates in biomedical applications: materials for the future?. <i>Materials Today</i> , 2016 , 19, 69-87	1.8	465
327	Oxygen and ammonia plasma treatment of poly(3-hydroxybutyrate) films for controlled surface zeta potential and improved cell compatibility. <i>Materials Letters</i> , 2016 , 163, 277-280	3.3	6

326	Squamous cell carcinoma in association with a red tattoo. <i>JDDG - Journal of the German Society of Dermatology</i> , 2016 , 14, 604-9	1.2	3
325	Gene transfection of human mesenchymal stem cells with a nano-hydroxyapatite-collagen scaffold containing DNA-functionalized calcium phosphate nanoparticles. <i>Genes To Cells</i> , 2016 , 21, 682-95	2.3	27
324	Study of biocompatibility effect of nanocarbon particles on various cell types in vitro. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2016 , 47, 216-221	0.9	32
323	Interaction of C60 fullerene complexed to cisplatin with model bilipid membranes and its uptake by HeLa cells. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2016 , 47, 105-111	0.9	1
322	Copper(II), zinc(II) and copper(II)/zinc(II)-containing carbonate-substituted hydroxyapatite: synthesis, characterization and thermal behaviour. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2016 , 47, 85-91	0.9	15
321	Estimation of energy of cubic iron-carbon nanoclusters by molecular mechanic method. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2016 , 47, 128-132	0.9	2
320	Adhesion properties of a three-layer system based on RF-magnetron sputter deposited calcium-phosphate coating and silver nanoparticles 2016 ,		1
319	Formation and Characterization of Crystalline Hydroxyapatite Coating with the (002) Texture. <i>IOP Conference Series: Materials Science and Engineering</i> , 2016 , 116, 012016	0.4	8
318	Calcification stimulates inflammatory signalling pathways in human vascular smooth muscle cells. <i>Atherosclerosis</i> , 2016 , 244, e9-e10	3.1	4
317	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	3.6	41
316	Synthesis of nanosized hydroxyapatite/agarose powders for bone filler and drug delivery application. <i>Materials Today Communications</i> , 2016 , 8, 31-40	2.5	42
315	Comparison of different methods to study effects of silver nanoparticles on the pro- and antioxidant status of human keratinocytes and fibroblasts. <i>Methods</i> , 2016 , 109, 55-63	4.6	11
314	Combination of nanoparticle-based therapeutic vaccination and transient ablation of regulatory T cells enhances anti-viral immunity during chronic retroviral infection. <i>Retrovirology</i> , 2016 , 13, 24	3.6	22
313	Effect of annealing temperature on pore formation in preparation of advanced polyethylene battery separator membranes. <i>Materials Today Communications</i> , 2016 , 8, 23-30	2.5	17
312	Kinetics of chemotaxis, cytokine, and chemokine release of NR8383 macrophages after exposure to inflammatory and inert granular insoluble particles. <i>Toxicology Letters</i> , 2016 , 263, 68-75	4.4	14
311	Particle-induced cell migration assay (PICMA): A new in vitro assay for inflammatory particle effects based on permanent cell lines. <i>Toxicology in Vitro</i> , 2015 , 29, 997-1005	3.6	12
310	The effect of patterned titanium substrates on the properties of silver-doped hydroxyapatite coatings. <i>Surface and Coatings Technology</i> , 2015 , 276, 595-601	4.4	27
309	Dental lessons from past to present: ultrastructure and composition of teeth from plesiosaurs, dinosaurs, extinct and recent sharks. <i>RSC Advances</i> , 2015 , 5, 61612-61622	3.7	14

308	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	7.3	41
307	Mesoscopic simulation of phospholipid membranes, peptides, and proteins with molecular fragment dynamics. <i>Journal of Chemical Information and Modeling</i> , 2015 , 55, 983-97	6.1	8
306	A rapid, high-yield and large-scale synthesis of uniform spherical silver nanoparticles by a microwave-assisted polyol process. <i>RSC Advances</i> , 2015 , 5, 92144-92150	3.7	16
305	Quantitative Replacement of Citrate by Phosphane on Silver Nanoparticle Surfaces Monitored by Surface-Enhanced Raman Spectroscopy (SERS). <i>Journal of Nanoscience and Nanotechnology</i> , 2015 , 15, 1591-6	1.3	3
304	Gene silencing of the pro-inflammatory cytokine TNF- α with siRNA delivered by calcium phosphate nanoparticles, quantified by different methods. <i>Journal of Materials Chemistry B</i> , 2015 , 3, 7186-7193	7.3	22
303	A continuous method to prepare poorly crystalline silver-doped calcium phosphate ceramics with antibacterial properties. <i>RSC Advances</i> , 2015 , 5, 43172-43177	3.7	13
302	Continuous delivery of rhBMP2 and rhVEGF165 at a certain ratio enhances bone formation in mandibular defects over the delivery of rhBMP2 alone--An experimental study in rats. <i>Journal of Controlled Release</i> , 2015 , 220, 201-209	11.7	18
301	Polymorphic calcium carbonate phases as adsorbents for allergens in natural rubber latex. <i>Journal of Applied Polymer Science</i> , 2015 , 132,	2.9	12
300	miR-542-3p exerts tumor suppressive functions in neuroblastoma by downregulating Survivin. <i>International Journal of Cancer</i> , 2015 , 136, 1308-20	7.5	65
299	Thin hydroxyapatite coating on AZ91D magnesium alloy fabricated via RF-magnetron sputtering. <i>IOP Conference Series: Materials Science and Engineering</i> , 2015 , 98, 012027	0.4	
298	Correlation between surface properties and wettability of multi-scale structured biocompatible surfaces. <i>IOP Conference Series: Materials Science and Engineering</i> , 2015 , 98, 012026	0.4	1
297	Structure of Biocompatible Coatings Produced from Hydroxyapatite Nanoparticles by Detonation Spraying. <i>Nanoscale Research Letters</i> , 2015 , 10, 464	5	22
296	Bone augmentation using a new injectable bone graft substitute by combining calcium phosphate and bisphosphonate as composite--an animal model. <i>Journal of Orthopaedic Surgery and Research</i> , 2015 , 10, 116	2.8	17
295	Calcium phosphate nanoparticles carrying BMP-7 plasmid DNA induce an osteogenic response in MC3T3-E1 pre-osteoblasts. <i>Journal of Biomedical Materials Research - Part A</i> , 2015 , 103, 3834-42	5.4	29
294	Synthesis, morphology and structure of the dense (Y _{1-x} Eux)2O ₃ spherical shape particles. <i>Crystal Research and Technology</i> , 2015 , 50, 621-625	1.3	2
293	Synthesis, characterization and in vitro effects of 7 nm alloyed silver-gold nanoparticles. <i>Beilstein Journal of Nanotechnology</i> , 2015 , 6, 1212-20	3	20
292	The potential of nanoparticles for the immunization against viral infections. <i>Journal of Materials Chemistry B</i> , 2015 , 3, 4767-4779	7.3	40
291	4. Nanoparticle-loaded bioactive hydrogels 2015 , 217-238		

290	Hybrid biocomposite with a tunable antibacterial activity and bioactivity based on RF magnetron sputter deposited coating and silver nanoparticles. <i>Applied Surface Science</i> , 2015 , 329, 212-218	6.7	27
289	Multifunctional calcium phosphate nanoparticles for combining near-infrared fluorescence imaging and photodynamic therapy. <i>Acta Biomaterialia</i> , 2015 , 14, 197-207	10.8	58
288	Size Matters: An Experimental and Computational Study of the Influence of Particle Size on the Lattice Energy of NaCl. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 4387-4396	3.8	5
287	Solvent free production of porous PDLLA/calcium carbonate composite scaffolds improves the release of bone growth factors. <i>Oral and Maxillofacial Surgery</i> , 2015 , 19, 133-41	1.6	7
286	ELECTROKINETIC PROPERTIES, IN VITRO DISSOLUTION, AND PROSPECTIVE HEMOAND BIOCOMPATIBILITY OF TITANIUM OXIDE AND OXYNITRIDE FILMS FOR CARDIOVASCULAR STENTS. <i>Bulletin of Siberian Medicine</i> , 2015 , 14, 55-66	0.4	4
285	The relevance of biomaterials to the prevention and treatment of osteoporosis. <i>Acta Biomaterialia</i> , 2014 , 10, 1793-805	10.8	103
284	Physical-Mechanical Characteristics of RF Magnetron Sputter-Deposited Coatings Based on Silver-Doped Hydroxyapatite. <i>Russian Physics Journal</i> , 2014 , 56, 1198-1205	0.7	13
283	Wettability of Thin Silicate-Containing Hydroxyapatite Films Formed by RF-Magnetron Sputtering. <i>Russian Physics Journal</i> , 2014 , 56, 1163-1169	0.7	6
282	X-Ray Powder Diffraction as a Tool to Investigate the Ultrastructure of Nanoparticles. <i>Russian Physics Journal</i> , 2014 , 56, 1111-1115	0.7	4
281	Structure and Properties of TiO ₂ Coatings Produced by Reactive Magnetron Sputtering. <i>Russian Physics Journal</i> , 2014 , 56, 1144-1149	0.7	15
280	Structure and Properties of Microarc Calcium Phosphate Coatings on the Surface of Titanium and Zirconium Alloys. <i>Russian Physics Journal</i> , 2014 , 56, 1130-1136	0.7	17
279	Calcium phosphate nanoparticles show an effective activation of the innate immune response in vitro and in vivo after functionalization with flagellin. <i>Virologica Sinica</i> , 2014 , 29, 33-9	6.4	18
278	The dissolution and biological effects of silver nanoparticles in biological media. <i>Journal of Materials Chemistry B</i> , 2014 , 2, 1634-1643	7.3	257
277	Ultrastructural organization and micromechanical properties of shark tooth enameloid. <i>Acta Biomaterialia</i> , 2014 , 10, 3959-68	10.8	42
276	Targeting and activation of antigen-specific B-cells by calcium phosphate nanoparticles loaded with protein antigen. <i>Biomaterials</i> , 2014 , 35, 6098-105	15.6	57
275	MSC-derived exosomes: a novel tool to treat therapy-refractory graft-versus-host disease. <i>Leukemia</i> , 2014 , 28, 970-3	10.7	650
274	Structural Evolution of Silver Nanoparticles during Wet-Chemical Synthesis. <i>Chemistry of Materials</i> , 2014 , 26, 951-957	9.6	67
273	Bioceramic nanoparticles for tissue engineering and drug delivery 2014 , 633-647		2

272	Comparison of different characterization methods for nanoparticle dispersions before and after aerosolization. <i>Analytical Methods</i> , 2014 , 6, 7324	3.2	163
271	The predominant species of ionic silver in biological media is colloiddally dispersed nanoparticulate silver chloride. <i>RSC Advances</i> , 2014 , 4, 35290	3.7	36
270	Nanocapsules of a cationic polyelectrolyte and nucleic acid for efficient cellular uptake and gene transfer. <i>Journal of Materials Chemistry B</i> , 2014 , 2, 4625-4630	7.3	8
269	Calcium phosphate increases the encapsulation efficiency of hydrophilic drugs (proteins, nucleic acids) into poly(d,l-lactide-co-glycolide acid) nanoparticles for intracellular delivery. <i>Journal of Materials Chemistry B</i> , 2014 , 2, 7250-7259	7.3	30
268	A pH-sensitive poly(methyl methacrylate) copolymer for efficient drug and gene delivery across the cell membrane. <i>Journal of Materials Chemistry B</i> , 2014 , 2, 7123-7131	7.3	16
267	An easy synthesis of autofluorescent alloyed silver-gold nanoparticles. <i>Journal of Materials Chemistry B</i> , 2014 , 2, 7887-7895	7.3	41
266	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, 1787-98	6	38
265	Generation of NiTi Nanoparticles by Femtosecond Laser Ablation in Liquid. <i>Journal of Materials Engineering and Performance</i> , 2014 , 23, 2482-2486	1.6	11
264	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	6.7	56
263	Enthalpies of formation of europium alkoxides: What lessons can be drawn from them. <i>Journal of Chemical Thermodynamics</i> , 2014 , 75, 20-24	2.9	
262	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, 1944-63	3	102
261	Effect of silver nanoparticles on human mesenchymal stem cell differentiation. <i>Beilstein Journal of Nanotechnology</i> , 2014 , 5, 2058-69	3	62
260	Interaction of dermatologically relevant nanoparticles with skin cells and skin. <i>Beilstein Journal of Nanotechnology</i> , 2014 , 5, 2363-73	3	42
259	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, 1357-70	3	46
258	Fetuin-A and albumin alter cytotoxic effects of calcium phosphate nanoparticles on human vascular smooth muscle cells. <i>PLoS ONE</i> , 2014 , 9, e97565	3.7	49
257	In vitro and in vivo interactions of selected nanoparticles with rodent serum proteins and their consequences in biokinetics. <i>Beilstein Journal of Nanotechnology</i> , 2014 , 5, 1699-711	3	46
256	Proinflammatory and cytotoxic response to nanoparticles in precision-cut lung slices. <i>Beilstein Journal of Nanotechnology</i> , 2014 , 5, 2440-9	3	15
255	Magnesiothermic conversion of the silica-mineralizing golden algae <i>Mallomonas caudata</i> and <i>Synura petersenii</i> to elemental silicon with high geometric precision. <i>Beilstein Journal of Nanotechnology</i> , 2014 , 5, 554-60	3	6

254	Investigation of the structure, elemental and phase composition of coatings on the basis of oxynitride titanium deposited by reactive magnetron sputtering. <i>Journal of Surface Investigation</i> , 2014 , 8, 1230-1234	0.5	2
253	A molecular fragment cheminformatics roadmap for mesoscopic simulation. <i>Journal of Cheminformatics</i> , 2014 , 6, 45	8.6	8
252	The type of adjuvant strongly influences the T-cell response during nanoparticle-based immunization. <i>Human Vaccines and Immunotherapeutics</i> , 2014 , 10, 164-9	4.4	11
251	Comparison of silver nanoparticles stored under air or argon with respect to the induction of intracellular free radicals and toxic effects toward keratinocytes. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2014 , 88, 651-7	5.7	35
250	Synthesis of Na ⁺ ,CO ₃ ²⁻ -containing calcium phosphate nanoparticles and their thermal transformations. <i>Functional Materials</i> , 2014 , 21, 333-337	0.6	2
249	Phase and elemental composition of silicon-containing hydroxyapatite-based coatings fabricated by RF-magnetron sputtering for medical implants. <i>Inorganic Materials: Applied Research</i> , 2013 , 4, 227-235	0.6	11
248	Facile synthesis of polymer core@silver shell hybrid nanoparticles with super surface enhanced Raman scattering capability. <i>Journal of Colloid and Interface Science</i> , 2013 , 393, 119-25	9.3	5
247	Characterization of crocodile teeth: correlation of composition, microstructure, and hardness. <i>Journal of Structural Biology</i> , 2013 , 184, 155-63	3.4	32
246	Molecular fragment dynamics study on the water-air interface behavior of non-ionic polyoxyethylene alkyl ether surfactants. <i>Journal of Colloid and Interface Science</i> , 2013 , 410, 140-5	9.3	13
245	Adhesion properties of a silicon-containing calcium phosphate coating deposited by RF magnetron sputtering on a heated substrate. <i>Journal of Surface Investigation</i> , 2013 , 7, 944-951	0.5	13
244	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	3.7	45
243	Influence of the substrate bias on the stoichiometry and structure of RF-magnetron sputter-deposited silver-containing calcium phosphate coatings. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2013 , 44, 218-225	0.9	35
242	Calcium phosphate ceramics with sodium-rich calcium phosphate phases at the surface. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2013 , 44, 259-263	0.9	1
241	A genetically active nano-calcium phosphate paste for bone substitution, encoding the formation of BMP-7 and VEGF-A. <i>RSC Advances</i> , 2013 , 3, 11155	3.7	25
240	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	4.4	72
239	Silber als antibakterielles Agens: Ion, Nanopartikel, Metall. <i>Angewandte Chemie</i> , 2013 , 125, 1678-1696	3.6	29
238	Silver as antibacterial agent: ion, nanoparticle, and metal. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 1636-53	16.4	1466
237	Physical, chemical and biological properties of micro-arc deposited calcium phosphate coatings on titanium and zirconium-niobium alloy. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2013 , 44, 188-197	0.9	33

236	Mechanism of the uptake of cationic and anionic calcium phosphate nanoparticles by cells. <i>Acta Biomaterialia</i> , 2013 , 9, 7527-35	10.8	93
235	Silver-doped calcium phosphate nanoparticles: synthesis, characterization, and toxic effects toward mammalian and prokaryotic cells. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013 , 102, 724-9	6	52
234	Transport of supramolecular drugs across the cell membrane by calcium phosphate nanoparticles. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2013 , 44, 176-182	0.9	9
233	Nanoparticle-mediated gene transfer from electrophoretically coated metal surfaces. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 1550-5	3.4	11
232	Biological targeting with nanoparticles: state of the art. <i>BioNanoMaterials</i> , 2013 , 14,		11
231	Mineralization of the vertebral bodies in Atlantic salmon (<i>Salmo salar</i> L.) is initiated segmentally in the form of hydroxyapatite crystal accretions in the notochord sheath. <i>Journal of Anatomy</i> , 2013 , 223, 159-70	2.9	15
230	A porous pH-stabilized composite material consisting of poly (D,L-lactide), calcium carbonate and gentamicin for bone substitution. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2013 , 44, 107-111	0.9	4
229	Microstructure, mechanical and biological properties of zirconium alloyed with niobium after severe plastic deformation. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2013 , 44, 198-204	0.9	6
228	Immunization with biodegradable nanoparticles efficiently induces cellular immunity and protects against influenza virus infection. <i>Journal of Immunology</i> , 2013 , 190, 6221-9	5.3	63
227	Cytotoxic and proinflammatory effects of PVP-coated silver nanoparticles after intratracheal instillation in rats. <i>Beilstein Journal of Nanotechnology</i> , 2013 , 4, 933-40	3	45
226	Nanoparticles for delivery of therapeutical nucleic acids to corneal endothelium. <i>Acta Ophthalmologica</i> , 2013 , 91, 0-0	3.7	
225	Admiral Fitzroys legendes Sturmglas. <i>Chemie in Unserer Zeit</i> , 2012 , 46, 26-31	0.2	1
224	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	3.7	258
223	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	2.3	44
222	Cell targeting by antibody-functionalized calcium phosphate nanoparticles. <i>Journal of Materials Chemistry</i> , 2012 , 22, 396-404		85
221	Chlorhexidine-loaded calcium phosphate nanoparticles for dental maintenance treatment: combination of mineralising and antibacterial effects. <i>RSC Advances</i> , 2012 , 2, 870-875	3.7	50
220	Direct experimental observation of the aggregation of amino acids into 100-100 nm clusters in aqueous solution. <i>RSC Advances</i> , 2012 , 2, 4690	3.7	32
219	Silver, gold, and alloyed silver-gold nanoparticles: characterization and comparative cell-biologic action. <i>Journal of Nanoparticle Research</i> , 2012 , 14, 1	2.3	59

218	Structure, composition, and mechanical properties of shark teeth. <i>Journal of Structural Biology</i> , 2012 , 178, 290-9	3.4	100
217	Nanosopic NaCl crystals as water-soluble porogens for polymer membranes. <i>RSC Advances</i> , 2012 , 2, 6650	3.7	6
216	Freeze-dried cationic calcium phosphate nanorods as versatile carriers of nucleic acids (DNA, siRNA). <i>Journal of Materials Chemistry</i> , 2012 , 22, 199-204		61
215	Brustimplantate. <i>Chemie in Unserer Zeit</i> , 2012 , 46, 76-79	0.2	1
214	Calcium phosphate nanoparticles as versatile carrier for small and large molecules across cell membranes. <i>Journal of Nanoparticle Research</i> , 2012 , 14, 1	2.3	40
213	Upregulation of metallothioneins after exposure of cultured primary astrocytes to silver nanoparticles. <i>Neurochemical Research</i> , 2012 , 37, 1639-48	4.6	57
212	A new tool for the transfection of corneal endothelial cells: calcium phosphate nanoparticles. <i>Acta Biomaterialia</i> , 2012 , 8, 1156-63	10.8	41
211	2012 ,		2
210	Cellular reactions toward nanostructured silicon surfaces created by laser ablation. <i>Journal of Laser Applications</i> , 2012 , 24, 042016	2.1	13
209	Synthesis of fluorescent core-shell hydroxyapatite nanoparticles. <i>Journal of Materials Chemistry</i> , 2011 , 21, 1250-1254		40
208	Accumulation of silver nanoparticles by cultured primary brain astrocytes. <i>Nanotechnology</i> , 2011 , 22, 375101	3.4	83
207	Rational design of sheet ligands against A β -induced toxicity. <i>Journal of the American Chemical Society</i> , 2011 , 133, 4348-58	16.4	55
206	Self-assembly of calcium phosphate nanoparticles into hollow spheres induced by dissolved amino acids. <i>Journal of Materials Chemistry</i> , 2011 , 21, 9219		32
205	Large-area, uniform, high-spatial-frequency ripples generated on silicon using a nanojoule-femtosecond laser at high repetition rate. <i>Optics Letters</i> , 2011 , 36, 229-31	3	87
204	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, 512-26	3.4	48
203	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	3.4	42
202	Synthetic pathways to make nanoparticles fluorescent. <i>Nanoscale</i> , 2011 , 3, 1957-62	7.7	42
201	Study of physicochemical and biological properties of calcium phosphate coatings prepared by RF magnetron sputtering of silicon-substituted hydroxyapatite. <i>Journal of Surface Investigation</i> , 2011 , 5, 863-869	0.5	23

200	In-vitro investigation of magnetron-sputtered coatings based on silicon-substituted hydroxyapatite. <i>Journal of Surface Investigation</i> , 2011 , 5, 1202-1207	0.5	22
199	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, 4029-36	10.8	41
198	Chemical composition of surface-functionalized gold nanoparticles. <i>Journal of Nanoparticle Research</i> , 2011 , 13, 4809-4814	2.3	31
197	Comparison of the statolith structures of <i>Chironex fleckeri</i> (Cnidaria, Cubozoa) and <i>Periphylla periphylla</i> (Cnidaria, Scyphozoa): a phylogenetic approach. <i>Marine Biology</i> , 2011 , 158, 1149-1161	2.5	24
196	Characterisation of exosomes derived from human cells by nanoparticle tracking analysis and scanning electron microscopy. <i>Colloids and Surfaces B: Biointerfaces</i> , 2011 , 87, 146-50	6	518
195	Electrophoretic deposition of calcium phosphate nanoparticles on a nanostructured silicon surface. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2011 , 42, 50-54	0.9	4
194	Characterization of the solid components of three desensitizing toothpastes and a mouth wash. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2011 , 42, 131-135	0.9	8
193	Nanocrystalline calcium-deficient hydroxyapatite prepared by a microwave-assisted solvent-free reaction. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2011 , 42, 154-157	0.9	11
192	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	5.1	147
191	Uptake and intracellular distribution of silver nanoparticles in human mesenchymal stem cells. <i>Acta Biomaterialia</i> , 2011 , 7, 347-54	10.8	277
190	Cell type-specific responses of peripheral blood mononuclear cells to silver nanoparticles. <i>Acta Biomaterialia</i> , 2011 , 7, 3505-14	10.8	114
189	Formation of Periodic Nanoripples on Silicon and Germanium Induced by Femtosecond Laser Pulses. <i>Physics Procedia</i> , 2011 , 12, 29-36		28
188	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	4.4	83
187	Synchrotron microcomputer tomography for the non-destructive visualization of the fish skeleton. <i>Journal of Applied Ichthyology</i> , 2010 , 26, 286-288	0.9	5
186	Functionalized Calcium Phosphate Nanoparticles for Biomedical Application. <i>Key Engineering Materials</i> , 2010 , 441, 299-305	0.4	19
185	The effect of radiation processing and filler morphology on the biomechanical stability of a thermoset polyester composite. <i>Biomedical Materials (Bristol)</i> , 2010 , 5, 25009	3.5	7
184	Application of calcium phosphate nanoparticles in biomedicine. <i>Journal of Materials Chemistry</i> , 2010 , 20, 18-23		266
183	The influence of proteins on the dispersability and cell-biological activity of silver nanoparticles. <i>Journal of Materials Chemistry</i> , 2010 , 20, 512-518		176

182	Gold nanoparticles: dispersibility in biological media and cell-biological effect. <i>Journal of Materials Chemistry</i> , 2010 , 20, 6176		63
181	An in vitro crystallization setup to assess the efficiency of different phosphate binders in nephrology: quantitative analytical considerations. <i>Analytical Methods</i> , 2010 , 2, 901	3.2	3
180	An injectable paste of calcium phosphate nanorods, functionalized with nucleic acids, for cell transfection and gene silencing. <i>Journal of Materials Chemistry</i> , 2010 , 20, 6144		19
179	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	9.6	888
178	The resorption of nanocrystalline calcium phosphates by osteoclast-like cells. <i>Acta Biomaterialia</i> , 2010 , 6, 3223-33	10.8	77
177	SiRNA-loaded multi-shell nanoparticles incorporated into a multilayered film as a reservoir for gene silencing. <i>Biomaterials</i> , 2010 , 31, 6013-8	15.6	51
176	Positively charged calcium phosphate/polymer nanoparticles for photodynamic therapy. <i>Journal of Materials Science: Materials in Medicine</i> , 2010 , 21, 887-92	4.5	34
175	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, 1233-9	4.5	52
174	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	4.3	42
173	Thermoanalytical and structural characterization of fluoridated calcium phosphates prepared in anhydrous alcohols. <i>Journal of Thermal Analysis and Calorimetry</i> , 2010 , 100, 509-517	4.1	1
172	Sulfate-Containing Biominerals 2010 , 207-217		
171	Effect of hydroxyapatite on the biodegradation and biomechanical stability of polyester nanocomposites for orthopaedic applications. <i>Acta Biomaterialia</i> , 2010 , 6, 763-75	10.8	61
170	The use of calcium phosphate nanoparticles encapsulating Toll-like receptor ligands and the antigen hemagglutinin to induce dendritic cell maturation and T cell activation. <i>Biomaterials</i> , 2010 , 31, 5627-33	15.6	106
169	Biomimetic formation of thin, coherent iron oxide films under Langmuir monolayers. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2010 , 354, 149-155	5.1	7
168	Synthesis of PVP-coated silver nanoparticles and their biological activity towards human mesenchymal stem cells. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2009 , 40, 258-264	0.9	58
167	Mineral distribution in highly fluorotic and in normal teeth: A synchrotron microcomputer tomographic study. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2009 , 40, 294-296	0.9	4
166	On impurities and the internal structure in precipitates occurring during the precipitation of nanocrystalline calcium phosphate. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2009 , 40, 297-301	0.9	14
165	Preface \square Materialwissenschaft und Werkstofftechnik 4/2009. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2009 , 40, 233-233	0.9	

164	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	3.4	188
163	Calcium phosphate nanoparticles as efficient carriers for photodynamic therapy against cells and bacteria. <i>Biomaterials</i> , 2009 , 30, 3324-31	15.6	92
162	The use of size-defined DNA-functionalized calcium phosphate nanoparticles to minimise intracellular calcium disturbance during transfection. <i>Biomaterials</i> , 2009 , 30, 6794-802	15.6	89
161	An Enriched Biphasic Model for Solute Driven Degradation. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2009 , 9, 165-166	0.2	
160	Calcium phosphate nanoparticles for the transfection of cells. <i>Bio-Medical Materials and Engineering</i> , 2009 , 19, 241-7	1	18
159	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, 426-36	3.4	54
158	Energetics of Calcium Phosphate Nanoparticle Formation by the Reaction of $\text{Ca}(\text{NO}_3)_2$ with $(\text{NH}_4)_2\text{HPO}_4$. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 5478-5484	3.8	11
157	A detailed study of closed calcium carbonate films at the liquid-liquid interface. <i>Langmuir</i> , 2009 , 25, 2258-63	4.63	17
156	A facile synthesis of dispersible NaCl nanocrystals. <i>Dalton Transactions</i> , 2009 , 9731-4	4.3	12
155	Thermally switchable dispersions of thermochromic Ag_2HgI_4 nanoparticles. <i>Dalton Transactions</i> , 2009 , 2921-5	4.3	8
154	Calcium phosphate nanoparticles with adjustable dispersability and crystallinity. <i>Journal of Materials Chemistry</i> , 2009 , 19, 2166		47
153	On the structure of amorphous calcium carbonate—a detailed study by solid-state NMR spectroscopy. <i>Inorganic Chemistry</i> , 2008 , 47, 7874-9	5.1	152
152	Calcium phosphate nanoparticles: colloidally stabilized and made fluorescent by a phosphate-functionalized porphyrin. <i>Journal of Materials Chemistry</i> , 2008 , 18, 3655		38
151	Calcium phosphate nanoparticles as templates for nanocapsules prepared by the layer-by-layer technique. <i>Journal of Materials Chemistry</i> , 2008 , 18, 3831		42
150	X-ray microcomputer tomography for the study of biomineralized endo- and exoskeletons of animals. <i>Chemical Reviews</i> , 2008 , 108, 4734-41	68.1	55
149	Calcium phosphate nanoparticles as nuclei for the preparation of colloidal calcium phytate. <i>New Journal of Chemistry</i> , 2008 , 32, 1326	3.6	25
148	Calcium phosphate crystals induce cell death in human vascular smooth muscle cells: a potential mechanism in atherosclerotic plaque destabilization. <i>Circulation Research</i> , 2008 , 103, e28-34	15.7	240
147	Embryonic shell formation in the snail <i>Biomphalaria glabrata</i> : a comparison between scanning electron microscopy (SEM) and synchrotron radiation micro computer tomography (SRµCT). <i>Journal of Molluscan Studies</i> , 2008 , 74, 19-26	1.1	12

146	Formation and Structure of Coherent, Ultra-thin Calcium Carbonate Films below Monolayers of Stearic Acid at the Oil/Water Interface 2008 , 11-18		
145	A strut graft substitute consisting of a metal core and a polymer surface. <i>Journal of Materials Science: Materials in Medicine</i> , 2008 , 19, 417-24	4.5	10
144	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	1.3	54
143	Formation of Calcium Carbonate Superstructures by Rapid Temperature Change. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2008 , 634, 2355-2359	1.3	3
142	Inorganic nanoparticles as carriers of nucleic acids into cells. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 1382-95	16.4	473
141	From metal complexes to nanominerals: the formation of inorganic nanoparticles on fibrils of transferrin. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 4960-1	16.4	2
140	Anorganische Nanopartikel zum Transport von Nucleinsäuren in Zellen. <i>Angewandte Chemie</i> , 2008 , 120, 1402-1416	3.6	40
139	Von Metallkomplexen zu Nanomineralien: die Bildung anorganischer Nanopartikel auf Fibrillen von Transferrin. <i>Angewandte Chemie</i> , 2008 , 120, 5038-5039	3.6	
138	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	4.4	90
137	On the formation of poly(3-hydroxybutyrate) by thermolysis of metal 3-halogenobutyrate in the absence of a solvent. <i>Thermochimica Acta</i> , 2008 , 473, 19-24	2.9	2
136	Influence of nickel ion release on leukocyte activation: a study with coated and non-coated NiTi shape memory alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 481-482, 612-615	5.3	8
135	The composition of the mineralized cuticle in marine and terrestrial isopods: A comparative study. <i>CrystEngComm</i> , 2007 , 9, 1245	3.3	76
134	Oriented Growth of Osteoblast-like Cells on Two- Dimensionally Structured Films of Functionalized Calcium Phosphate Nanoparticles on a Silicon Substrate. <i>Advanced Engineering Materials</i> , 2007 , 9, 1077-1081	3.5	8
133	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 , 82, 731-9	5.4	45
132	Monohydrocalcite and Its Relationship to Hydrated Amorphous Calcium Carbonate in Biominerals. <i>European Journal of Inorganic Chemistry</i> , 2007 , 2007, 1953-1957	2.3	54
131	CuO/ZnO Nanoparticles in a Matrix of Amorphous Silica as High-Surface Precursors for Methanol Synthesis. <i>European Journal of Inorganic Chemistry</i> , 2007 , 2007, 1723-1727	2.3	4
130	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	2.9	179
129	Performance of functionally graded implants of polylactides and calcium phosphate/calcium carbonate in an ovine model for computer assisted craniectomy and cranioplasty. <i>Biomaterials</i> , 2007 , 28, 475-85	15.6	42

128	On the formation of calcium carbonate thin films under Langmuir monolayers of stearic acid. <i>Colloid and Polymer Science</i> , 2007 , 285, 1301-1311	2.4	22
127	Tracking the pathway of calcium phosphate/DNA nanoparticles during cell transfection by incorporation of red-fluorescing tetramethylrhodamine isothiocyanate-bovine serum albumin into these nanoparticles. <i>Journal of Biological Inorganic Chemistry</i> , 2007 , 12, 174-9	3.7	38
126	Skeletal deformations in medaka (<i>Oryzias latipes</i>) visualized by synchrotron radiation micro-computer tomography (SRmicroCT). <i>Journal of Structural Biology</i> , 2007 , 160, 236-40	3.4	14
125	Functionalisation of calcium phosphate nanoparticles by oligonucleotides and their application for gene silencing. <i>Journal of Materials Chemistry</i> , 2007 , 17, 721-727		98
124	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		121
123	Composites of Calcium Phosphate and Polymers as Bone Substitution Materials. <i>European Journal of Trauma and Emergency Surgery</i> , 2006 , 32, 125-131		54
122	Catalytic Activity of Copper Oxide/Zinc Oxide Composites Prepared by Thermolysis of Crystallographically Defined Bimetallic Coordination Compounds. <i>European Journal of Inorganic Chemistry</i> , 2006 , 2006, 1796-1802	2.3	8
121	Cu/Zn/Al Xerogels and Aerogels Prepared by a Sol-Gel Reaction as Catalysts for Methanol Synthesis. <i>European Journal of Inorganic Chemistry</i> , 2006 , 2006, 4774-4781	2.3	28
120	Copper/Zinc L-Tartrates: Mixed Crystals and Thermolysis to a Mixture of Copper Oxide and Zinc Oxide That Is Catalytically Active in Methanol Synthesis. <i>European Journal of Inorganic Chemistry</i> , 2006 , 2006, 4782-4786	2.3	6
119	A solid-state NMR investigation of the structure of nanocrystalline hydroxyapatite. <i>Magnetic Resonance in Chemistry</i> , 2006 , 44, 573-80	2.1	293
118	Mechanical characteristics of functionally graded biodegradable implants for skull bone reconstruction. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2006 , 37, 413-415	0.9	6
117	Deposition of functionalized calcium phosphate nanoparticles on functionalized polymer surfaces. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2006 , 37, 422-425	0.9	11
116	The skeleton and pharyngeal teeth of zebrafish (<i>Danio rerio</i>) as a model of biomineralization in vertebrates. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2006 , 37, 426-431	0.9	13
115	Synthesis and characterization of DNA-functionalized calcium phosphate nanoparticles. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2006 , 37, 441-445	0.9	48
114	Numerical computation of the porosity of bone substitution materials from synchrotron micro computer tomographic data. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2006 , 37, 469-473	0.9	10
113	Magnesium-substituted hydroxyapatite ceramics. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2006 , 37, 474-477	0.9	35
112	The influence of foreign ions on the crystal lattice of hydroxyapatite upon heating. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2006 , 37, 530-532	0.9	18
111	Regulation of leukocyte adhesion molecules by leukocyte/biomaterial-conditioned media: A study with calcium-phosphate-coated and non-coated NiTi-shape memory alloys. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2006 , 37, 558-562	0.9	1

110	Preparation of two-dimensionally patterned layers of functionalised calcium phosphate nanoparticles by laser direct writing. <i>Journal of Materials Chemistry</i> , 2006 , 16, 1798		31
109	Crystal structure and thermochemical reactivity of an unusual copper complex that contains copper in four different coordination geometries. <i>Dalton Transactions</i> , 2006 , 1831-5	4.3	21
108	Calcium sulfate hemihydrate (bassanite) statoliths in the cubozoan <i>Carybdea</i> sp.. <i>Zoologischer Anzeiger</i> , 2006 , 245, 13-17	1.1	27
107	The Crystallization of Fluoroapatite Dumbbells from Supersaturated Aqueous Solution. <i>Crystal Growth and Design</i> , 2006 , 6, 498-506	3.5	42
106	Effective transfection of cells with multi-shell calcium phosphate-DNA nanoparticles. <i>Biomaterials</i> , 2006 , 27, 3147-53	15.6	230
105	Thermochemistry of alkaline-earth phenoxides. <i>Journal of Chemical Thermodynamics</i> , 2006 , 38, 296-303	2.9	2
104	Synthesis, structural characterization and thermochemical reactivity of tris(ethylenediamine)zinc tetracyanozincate, a precursor for nanoscale ZnO. <i>Thermochimica Acta</i> , 2006 , 446, 101-105	2.9	9
103	Composites of amorphous calcium phosphate and poly(hydroxybutyrate) and poly(hydroxybutyrate-co-hydroxyvalerate) for bone substitution: assessment of the biocompatibility. <i>Journal of Materials Science</i> , 2006 , 41, 4806-4813	4.3	19
102	A special palate structure of <i>Ctenochaetus striatus</i> —hidden tool for bioerosion. <i>Coral Reefs</i> , 2006 , 25, 645-645	4.2	4
101	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 , 1814-20	4.3	123
100	Calcium sulfate hemihydrate is the inorganic mineral in statoliths of Scyphozoan medusae (Cnidaria). <i>Dalton Transactions</i> , 2005 , 1545-50	4.3	33
99	Thermolysis of tetrakis(trimethyltin)hexacyanoruthenate(II): preparation and characterization of Ru ₃ Sn ₇ and (Ru,Sn)O ₂ . <i>Journal of Materials Chemistry</i> , 2005 , 15, 424		7
98	A High-Throughput Crystallization Device to Study Biomineralization in Vitro. <i>Materials Research Society Symposia Proceedings</i> , 2005 , 873, 1		2
97	Morphological characterization and in vitro biocompatibility of a porous nickel-titanium alloy. <i>Biomaterials</i> , 2005 , 26, 5801-7	15.6	90
96	A Straightforward Route to Copper/Zinc Oxide Nanocomposites: The Controlled Thermolysis of Zn[Cu(CN) ₃]. <i>European Journal of Inorganic Chemistry</i> , 2005 , 2005, 3072-3079	2.3	17
95	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	3.5	62
94	Controlled release of goserelin from microporous polyglycolide and polylactide. <i>Macromolecular Bioscience</i> , 2005 , 5, 289-98	5.5	14
93	Application of synchrotron-radiation-based computer microtomography (SRICIT) to selected biominerals: embryonic snails, statoliths of medusae, and human teeth. <i>Journal of Biological Inorganic Chemistry</i> , 2005 , 10, 688-95	3.7	23

92	In vitro Synthesis and Structural Characterization of Amorphous Calcium Carbonate. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2005 , 631, 2830-2835	1.3	78
91	Modern Methods of Investigation in Biomineralization 2005 , 305-325		1
90	Charakterisierung von Färbungsfarbstoffen. <i>Aktuelle Dermatologie</i> , 2005 , 31, 514-518	0.1	1
89	A novel method to produce hydroxyapatite objects with interconnecting porosity that avoids sintering. <i>Biomaterials</i> , 2004 , 25, 3335-40	15.6	132
88	Biocompatibility of calcium phosphate-coated and of geometrically structured nickel-titanium (NiTi) by in vitro testing methods. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004 , 378, 527-531	5.3	21
87	A thorough physicochemical characterisation of 14 calcium phosphate-based bone substitution materials in comparison to natural bone. <i>Biomaterials</i> , 2004 , 25, 987-94	15.6	424
86	Comparison of different methods for the preparation of porous bone substitution materials and structural investigations by synchrotron X-ray computer tomography. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2004 , 35, 240-244	0.9	27
85	Individuelle Implantate aus biodegradierbarem Kompositmaterial zur Versorgung von Schädeldefekten. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2004 , 35, 224-228	0.9	1
84	NiTi shape memory alloys coated with calcium phosphate by plasma-spraying. Chemical and biological properties. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2004 , 35, 346-351	0.9	19
83	Controlled release of gentamicin from biomimetic calcium phosphate in vitro. Comparison of four different incorporation methods. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2004 , 35, 1001-1005	0.9	10
82	Poröse Biomaterialien. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2004 , 35, 177-177	0.9	
81	Geometrically structured implants for cranial reconstruction made of biodegradable polyesters and calcium phosphate/calcium carbonate. <i>Biomaterials</i> , 2004 , 25, 1239-47	15.6	87
80	Inhibition of PMN apoptosis after adherence to dip-coated calcium phosphate surfaces on a NiTi shape memory alloy. <i>Biomaterials</i> , 2004 , 25, 4627-32	15.6	34
79	A comparative study of clinically well-characterized human atherosclerotic plaques with histological, chemical, and ultrastructural methods. <i>Journal of Inorganic Biochemistry</i> , 2004 , 98, 2032-8	4.2	54
78	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	5.3	31
77	Transfection of cells with custom-made calcium phosphate nanoparticles coated with DNA. <i>Journal of Materials Chemistry</i> , 2004 , 14, 2213		122
76	Continuous preparation of functionalised calcium phosphate nanoparticles with adjustable crystallinity. <i>Chemical Communications</i> , 2004 , 1204-5	5.8	66
75	A Model System to Provide a Good in Vitro Simulation of Biological Mineralization. <i>Crystal Growth and Design</i> , 2004 , 4, 389-395	3.5	35

74	CAD/CAM prefabricated individual skull implants: new aspects in robot resection and guided bone regeneration. <i>International Congress Series</i> , 2004 , 1268, 584-590		2
73	EARLY MINERALIZATION IN BIOMPHALARIA GLABRATA: MICROSCOPIC AND STRUCTURAL RESULTS. <i>Journal of Molluscan Studies</i> , 2003 , 69, 113-121	1.1	80
72	Electron microscopy and 3D microtomography of biominerals and biomaterials. <i>Microscopy and Microanalysis</i> , 2003 , 9, 450-451	0.5	1
71	An optimized synthetic substrate for orthodontic bond strength testing. <i>Dental Materials</i> , 2003 , 19, 773-787	3.7	7
70	In-vitro preparation of nanocrystalline calcium phosphates as bone substitution materials in surgery. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2003 , 34, 1048-1051	0.9	15
69	Carbonated calcium phosphates are suitable pH-stabilising fillers for biodegradable polyesters. <i>Biomaterials</i> , 2003 , 24, 2037-43	15.6	107
68	Calcium phosphate coating of nickel-titanium shape-memory alloys. Coating procedure and adherence of leukocytes and platelets. <i>Biomaterials</i> , 2003 , 24, 3689-96	15.6	95
67	Mechanically stable implants of synthetic bone mineral by cold isostatic pressing. <i>Biomaterials</i> , 2003 , 24, 4565-71	15.6	62
66	Functionally graded materials for biomedical applications. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2003 , 362, 40-60	5.3	370
65	Chemical Reactivity of Tetrasulfur Tetranitride: Synthesis, Physical Properties, and Structural Characterization of the Amorphous Phase Cu ₇ S ₄ N ₄ . <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2003 , 629, 1751-1759	1.3	0
64	In-vitro Crystallization of Calcium Carbonate in the Presence of Biological Additives [Comparison of the Ammonium Carbonate Method with Double-Diffusion Techniques. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2003 , 629, 2305-2311	1.3	26
63	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	4.3	92
62	On the Nature of the Polymeric Organotin(IV) Chromates(VI), [(Me ₃ Sn) ₂ CrO ₄] and [(Me ₃ Sn) ₃ CrO ₄ (OH)]. An Extension of Non-consolidated Earlier Findings. <i>Supramolecular Chemistry</i> , 2003 , 15, 409-416	1.8	4
61	Crystallization of a Bone-Like Apatite onto Cholesterol from Aqueous Solutions. <i>Key Engineering Materials</i> , 2003 , 240-242, 529-532	0.4	1
60	Biomimetic Crystallization of Calcium Phosphates under Constant Conditions from the Revised SBF. <i>Key Engineering Materials</i> , 2003 , 240-242, 85-88	0.4	3
59	Die biologische und medizinische Bedeutung von Calciumphosphaten. <i>Angewandte Chemie</i> , 2002 , 114, 3260-3277	3.6	73
58	Biological and medical significance of calcium phosphates. <i>Angewandte Chemie - International Edition</i> , 2002 , 41, 3130-46	16.4	1497
57	Preparation of intermetallic phases of noble metals and tin by thermolysis of metal-organic coordination polymers. <i>Thermochimica Acta</i> , 2002 , 382, 143-149	2.9	5

56	Continuous synthesis of amorphous carbonated apatites. <i>Biomaterials</i> , 2002 , 23, 2553-9	15.6	231
55	Easy assessment of the biocompatibility of Ni-Ti alloys by in vitro cell culture experiments on a functionally graded Ni-NiTi-Ti material. <i>Biomaterials</i> , 2002 , 23, 4549-55	15.6	97
54	Energetics of the C-Cl Bond in CH ₃ CH(Cl)COOH. Enthalpy of Formation of (S)-(α)-2-Chloropropionic Acid and of the 1-Carboxyethyl Radical. <i>Journal of Physical Chemistry A</i> , 2002 , 106, 9855-9861	2.8	7
53	Driving Force for the Thermally Induced Solid State Polymerization of Alkali Metal Halogenoacetates: A Thermochemical Analysis. <i>Journal of Physical Chemistry B</i> , 2002 , 106, 10764-10770 ³⁻⁴		7
52	Calcium sulfate hemihydrate in statoliths of deep-sea medusae. <i>Dalton Transactions RSC</i> , 2002 , 1266-1268		40
51	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, 162-71		139
50	Structural Aspects of the Solid-State Polycondensation Reaction in Alkali 4-Halogenomethylbenzoates. <i>Journal of Solid State Chemistry</i> , 2001 , 156, 61-67	3.3	4
49	Formation of Polyesters by Thermally Induced Polymerization Reactions of Molecular Solids. <i>European Journal of Inorganic Chemistry</i> , 2001 , 2001, 1395-1406	2.3	18
48	Energetics of C-Cl, C-Br, and C-I bonds in haloacetic acids: enthalpies of formation of XCH ₂ COOH (X=Cl, Br, I) compounds and the carboxymethyl radical. <i>Chemistry - A European Journal</i> , 2001 , 7, 483-9	4.8	21
47	How much interdisciplinarity is required to understand vascular calcifications? Formulation of four basic principles of vascular calcification. <i>Clinical Research in Cardiology</i> , 2001 , 90 Suppl 3, 2-5		5
46	Solid-state chemical methods to investigate the nature of calcified deposits. <i>Clinical Research in Cardiology</i> , 2001 , 90 Suppl 3, 64-7		2
45	Simulating arterial wall calcification in vitro : biomimetic crystallization of calcium phosphates under controlled conditions. <i>Clinical Research in Cardiology</i> , 2001 , 90, III81-III85		19
44	EIN OPTIMIERTER BIODEGRADIERBARER WERKSTOFF FÜR DIE BEHANDLUNG GROSSFLÄCHIGER SCHNITTDEFEKTE. <i>Biomedizinische Technik</i> , 2001 , 46, 204-205	1.3	2
43	Crystallisation of calcium phosphates under constant conditions with a double diffusion set-up. <i>Dalton Transactions RSC</i> , 2001 , 3585-3592		31
42	Porous poly(D,L-lactide) and poly(D,L-lactide-co-glycolide) produced by thermal salt elimination from halogenocarboxylates. <i>Dalton Transactions RSC</i> , 2001 , 3140-3148		7
41	Biologically and chemically optimized composites of carbonated apatite and polyglycolide as bone substitution materials 2001 , 54, 162		1
40	. <i>Chemistry - A European Journal</i> , 2000 , 6, 1120-1126	4.8	1
39	Calcium carbonate modifications in the mineralized shell of the freshwater snail <i>Biomphalaria glabrata</i> . <i>Chemistry - A European Journal</i> , 2000 , 6, 3679-85	4.8	161

38	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	2.9	165
37	Preparation of nanocrystalline metal oxides and intermetallic phases by controlled thermolysis of organometallic coordination polymers. <i>Solid State Sciences</i> , 2000 , 2, 473-488	3.4	15
36	Crystal-chemical characterization of mixed-valent indium chalcogenides by X-ray absorption spectroscopy (EXAFS). <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2000 , 215, 445-453	1	17
35	Combined in-situ small and wide-angle synchrotron x-ray scattering (SAXS-WAXS) applied to a solid-state polymerization reaction. <i>Polymer</i> , 1999 , 40, 507-511	3.9	8
34	Structure determination of lithium chloroacetate, lithium bromoacetate and lithium iodoacetate by powder diffraction. <i>Acta Crystallographica Section B: Structural Science</i> , 1999 , 55, 517-524		13
33	A Single Crystal Study of a Solid-state Polymerization Reaction. <i>Magyar Áprilad Kélemlyek</i> , 1999 , 57, 151-156	0	3
32	A detailed characterization of polyglycolide prepared by solid-state polycondensation reaction. <i>Macromolecular Chemistry and Physics</i> , 1999 , 200, 2221-2229	2.6	45
31	Reduction of Solid Benzophenones with Sodium Borohydride. <i>Magyar Áprilad Kélemlyek</i> , 1998 , 52, 165-176	0	2
30	Biomimetic Crystallization of Apatite in a Porous Polymer Matrix. <i>Chemistry - A European Journal</i> , 1998 , 4, 1898-1903	4.8	44
29	Hierarchically structured polyglycolide β biomaterial mimicking natural bone. <i>Macromolecular Rapid Communications</i> , 1998 , 19, 613-617	4.8	1
28	Porous polyglycolide. <i>Journal of Biomedical Materials Research Part B</i> , 1998 , 43, 83-8		23
27	Hierarchically structured polyglycolide β biomaterial mimicking natural bone. <i>Macromolecular Rapid Communications</i> , 1998 , 19, 613-617	4.8	24
26	Solid-State Polymerization Reaction by Combined In-Situ X-ray Diffraction and X-ray Absorption Spectroscopy (XRDEXAFS). <i>Chemistry of Materials</i> , 1997 , 9, 3127-3131	9.6	14
25	Topochemical Rationalization of the Solid-State Polymerization Reaction of Sodium Chloroacetate: Structure Determination from Powder Diffraction Data by the Monte Carlo Method. <i>Journal of Physical Chemistry B</i> , 1997 , 101, 8827-8831	3.4	32
24	Polyglycolide with controlled porosity: an improved biomaterial. <i>Journal of Materials Chemistry</i> , 1997 , 7, 1037-1042		38
23	The thermally induced phase transition in 2,3,7,8-tetramethoxythianthrene. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , 1997 , 101, 1889-1895		1
22	Oligomerization and Polymerization in Sodium Salts of Chlorocarboxylic Acids. <i>Liebigs Annalen</i> , 1997 , 1997, 81-85		9
21	Silver Chloroacetate: Crystal Structure and Thermal Polymerization Mechanism. <i>Chemische Berichte</i> , 1997 , 130, 291-294		18

20	Simultaneous X-ray absorption fine-structure spectroscopy (XAFS) and differential scanning calorimetry (DSC). <i>Chemical Communications</i> , 1996 , 1755-1756	5.8	15
19	Thermochemical reactivity of a solvate crystal studied by thermal analysis and in situ X-ray absorption spectroscopy. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1996 , 92, 5035		9
18	Study of a solid-state polymerisation reaction: thermal elimination of NaCl from sodium chloroacetate. <i>Journal of the Chemical Society Dalton Transactions</i> , 1996 , 11-16		21
17	An in situ IR-spectroscopic study of the solid-state formation reaction of polyglycolide. <i>Journal of Thermal Analysis</i> , 1996 , 47, 331-337		13
16	The Thermally Induced Solid-State Polymerization Reaction in Halogenoacetates. <i>Chemische Berichte</i> , 1996 , 129, 1123-1129		28
15	Magnesium alcoholates as precursors for magnesia. <i>Journal of Materials Chemistry</i> , 1995 , 5, 589		48
14	Grundlagen der Thermischen Analysetechniken und ihre Anwendungen in der präparativen Chemie. <i>Angewandte Chemie</i> , 1995 , 107, 1284-1301	3.6	51
13	Basic Principles of Thermoanalytical Techniques and Their Applications in Preparative Chemistry. <i>Angewandte Chemie International Edition in English</i> , 1995 , 34, 1171-1187		82
12	On the evaluation of dynamic X-ray diffractometric data for kinetic and structural purposes. <i>Journal of Thermal Analysis</i> , 1995 , 45, 1265-1276		7
11	Applications of temperature-resolved diffraction methods in thermal analysis. <i>Journal of Thermal Analysis</i> , 1994 , 42, 559-593		21
10	Polysulfonylamine. XL Darstellung von Silber(I)-disulfonylamid-Acetonitril-Komplexen. Röntgenstrukturanalytische und thermochemische Charakterisierung von Tetraacetonitrilsilber(I)-bis(dimesylamido)argentat(I) und von Polysulfonylamine. XLI. Ein Silber(I)-Hydrat ungewöhnlicher Zusammensetzung: Röntgenstrukturanalytische und thermochemische Charakterisierung von Tetrakis(dimesylamido)aquatetrasilber(I) [Ag ₄ (N(SO ₂ CH ₃) ₂) ₄ (H ₂ O)]. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 1993 , 619, 817-822	1.3	40
9	Polysulfonylamine. XLII. Ein Aquasilber(I)-Komplex mit einem Ag(m-H ₂ O) ₂ Ag-Strukturmotiv: Röntgenstrukturanalytische und thermoanalytische Charakterisierung von Aqua(1,1,3,3-tetraoxo-1,3,2-benzodithiazolido)silber(I). <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 1993 , 619, 1441-1445	1.3	8
8	Investigation of Solid State Reactions and Solid-Solid Phase Transformations with Time- and Temperature-resolved X-ray Powder Diffractometry. <i>Zeitschrift Fur Elektrochemie Und Elektrochemie</i> , 1992 , 96, 1774-1778		22
7	Temperature-resolved X-ray diffractometry as a thermoanalytical method. <i>Journal of Thermal Analysis</i> , 1992 , 38, 619-626		10
6	Desolvation and phase transitions of silver dimesylaminide hydrate. <i>Journal De Chimie Physique Et De Physico-Chimie Biologique</i> , 1990 , 87, 1249-1256		4
5	Thermochemical analysis of solvate complexes of silver dimesylaminide. <i>Thermochimica Acta</i> , 1989 , 151, 171-178	2.9	21
4	Biomimetic Bone Substitution Materials		81-95

2 Statoliths of Calcium Sulfate Hemihydrate are used for Gravity Sensing in Rhopaliophoran Medusae (Cnidaria) 251-272

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