

Yf Zheng

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/5938179/yf-zheng-publications-by-year.pdf>

Version: 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

825
papers

39,466
citations

95
h-index

160
g-index

867
ext. papers

48,663
ext. citations

7.7
avg, IF

7.95
L-index

#	Paper	IF	Citations
825	Additively manufactured pure zinc porous scaffolds for critical-sized bone defects of rabbit femur.. <i>Bioactive Materials</i> , 2023 , 19, 12-23	16.7	1
824	Design and evaluation of an air-insulated catheter for intra-arterial selective cooling infusion from numerical simulation and in vitro experiment.. <i>Medical Engineering and Physics</i> , 2022 , 99, 103736	2.4	2
823	Divalent metal cations stimulate skeleton interoception for new bone formation in mouse injury models.. <i>Nature Communications</i> , 2022 , 13, 535	17.4	2
822	Processing optimization, mechanical properties, corrosion behavior and cytocompatibility of additively manufactured Zn-0.7Li biodegradable metals.. <i>Acta Biomaterialia</i> , 2022 ,	10.8	2
821	Biodegradable ZnBr alloys with enhanced mechanical and biocompatibility for biomedical applications. <i>Smart Materials in Medicine</i> , 2022 , 3, 117-127	12.9	0
820	Photo-excited antibacterial poly(ϵ -caprolactone)@MoS ₂ /ZnS hybrid nanofibers. <i>Chemical Engineering Journal</i> , 2022 , 434, 134764	14.7	3
819	A robust calcium carbonate (CaCO ₃) coating on biomedical MgZnCa alloy for promising corrosion protection. <i>Corrosion Science</i> , 2022 , 198, 110124	6.8	1
818	Sulfur-regulated defect engineering for enhanced ultrasonic piezocatalytic therapy of bacteria-infected bone defects. <i>Chemical Engineering Journal</i> , 2022 , 435, 134624	14.7	7
817	Precipitation and coarsening kinetics of H-phase in NiTiHf high temperature shape memory alloy. <i>Journal of Materials Science and Technology</i> , 2022 , 114, 90-101	9.1	1
816	Noble metal-based nanomaterials as antibacterial agents. <i>Journal of Alloys and Compounds</i> , 2022 , 904, 164091	5.7	11
815	The enhanced photocatalytic sterilization of MOF-Based nanohybrid for rapid and portable therapy of bacteria-infected open wounds.. <i>Bioactive Materials</i> , 2022 , 13, 200-211	16.7	7
814	Electrophoretic deposited boron nitride nanosheets-containing chitosan-based coating on Mg alloy for better corrosion resistance, biocompatibility and antibacterial properties. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022 , 638, 128303	5.1	3
813	Effect of nitrogen on the structure evolution and biological properties of mesoporous bioactive glass nanospheres: Experiments and simulations. <i>Journal of Non-Crystalline Solids</i> , 2022 , 578, 121329	3.9	2
812	Local pH and oxygen concentration at the interface of Zn alloys in Tris-HCl or HEPES buffered Hanks balanced salt solution. <i>Corrosion Science</i> , 2022 , 197, 110061	6.8	0
811	Current status and outlook of biodegradable metals in neuroscience and their potential applications as cerebral vascular stent materials.. <i>Bioactive Materials</i> , 2022 , 11, 140-153	16.7	0
810	Magnesium cationic cue enriched interfacial tissue microenvironment nurtures the osseointegration of gamma-irradiated allograft bone.. <i>Bioactive Materials</i> , 2022 , 10, 32-47	16.7	1
809	Photothermal therapy with regulated Nrf2/NF- κ B signaling pathway for treating bacteria-induced periodontitis. <i>Bioactive Materials</i> , 2022 , 9, 428-445	16.7	9

808	Formation of a ZnO nanorods-patterned coating with strong bactericidal capability and quantitative evaluation of the contribution of nanorods-derived puncture and ROS-derived killing.. <i>Bioactive Materials</i> , 2022 , 11, 181-191	16.7	4
807	Preparation of photo-crosslinked aliphatic polycarbonate coatings with predictable degradation behavior on magnesium-alloy stents by electrophoretic deposition. <i>Chemical Engineering Journal</i> , 2022 , 427, 131596	14.7	2
806	A review on current research status of the surface modification of Zn-based biodegradable metals. <i>Bioactive Materials</i> , 2022 , 7, 192-216	16.7	14
805	Tuning the surface potential to reprogram immune microenvironment for bone regeneration.. <i>Biomaterials</i> , 2022 , 282, 121408	15.6	3
804	Tailoring of Biodegradable Magnesium Alloy Surface with Schiff Base Coating via Electrostatic Spraying for Better Corrosion Resistance. <i>Metals</i> , 2022 , 12, 471	2.3	3
803	2D Molybdenum Sulfide-Based Materials for Photo-Excited Antibacterial Application.. <i>Advanced Healthcare Materials</i> , 2022 , e2200360	10.1	2
802	Recent progress of photo-excited antibacterial materials via chemical vapor deposition. <i>Chemical Engineering Journal</i> , 2022 , 437, 135401	14.7	2
801	Strain states and unique properties in cold-rolled TiNi shape memory alloys. <i>Acta Materialia</i> , 2022 , 231, 117890	8.4	0
800	Surface photodynamic ion sterilization of ITO-Cu ₂ O/ZnO preventing touch infection. <i>Journal of Materials Science and Technology</i> , 2022 , 122, 10-19	9.1	2
799	Eco-friendly bacteria-killing by nanorods through mechano-puncture with top selectivity.. <i>Bioactive Materials</i> , 2022 , 15, 173-184	16.7	1
798	Biodegradable magnesium alloy WE43 porous scaffolds fabricated by laser powder bed fusion for orthopedic applications: Process optimization, and investigation.. <i>Bioactive Materials</i> , 2022 , 16, 301-319	16.7	3
797	Improved mechanical, degradation, and biological performances of Zn-Fe alloys as bioresorbable implants.. <i>Bioactive Materials</i> , 2022 , 17, 334-343	16.7	2
796	Simultaneously enhancing the photocatalytic and photothermal effect of NH-MIL-125-GO-Pt ternary heterojunction for rapid therapy of bacteria-infected wounds.. <i>Bioactive Materials</i> , 2022 , 18, 421-432	16.7	3
795	The highly effective therapy of ovarian cancer by Bismuth-doped oxygen-deficient BaTiO ₃ with enhanced sono-piezocatalytic effects. <i>Chemical Engineering Journal</i> , 2022 , 442, 136380	14.7	3
794	Microwave assisted antibacterial action of Garcinia nanoparticles on Gram-negative bacteria.. <i>Nature Communications</i> , 2022 , 13, 2461	17.4	7
793	Evidence-based biomaterials research. <i>Bioactive Materials</i> , 2022 , 15, 495-503	16.7	2
792	pH Stimuli-Responsive, Rapidly Self-healable Coatings Enhanced the Corrosion Resistance and Osteogenic Differentiation of Mg-1Ca Osteoimplant.. <i>Small</i> , 2022 , e2106056	11	
791	A compound Schiff base coating on biomedical magnesium alloy for enhanced corrosion resistance and biocompatibility 2022 , 100003		0

790	The effect of simulated inflammatory conditions on the corrosion of Mg, Fe and CoCrMo. <i>Materials Letters</i> , 2021 , 308, 131197	3.3	0
789	Photo-Sono Interfacial Engineering Exciting the Intrinsic Property of Herbal Nanomedicine for Rapid Broad-Spectrum Bacteria Killing. <i>ACS Nano</i> , 2021 ,	16.7	15
788	Oxygen Vacancies-Rich Heterojunction of Ti C /BiOBr for Photo-Excited Antibacterial Textiles. <i>Small</i> , 2021 , e2104448	11	6
787	Self-activating anti-infection implant. <i>Nature Communications</i> , 2021 , 12, 6907	17.4	11
786	In vitro degradation behavior of novel ZnCuLi alloys: Roles of alloy composition and rolling processing. <i>Materials and Design</i> , 2021 , 212, 110288	8.1	2
785	A lithium-doped surface inspires immunomodulatory functions for enhanced osteointegration through PI3K/AKT signaling axis regulation. <i>Biomaterials Science</i> , 2021 , 9, 8202-8220	7.4	5
784	Biomimicking Bone-Implant Interface Facilitates the Bioadaptation of a New Degradable Magnesium Alloy to the Bone Tissue Microenvironment. <i>Advanced Science</i> , 2021 , 8, e2102035	13.6	6
783	Theory-screened MOF-based single-atom catalysts for facile and effective therapy of biofilm-induced periodontitis. <i>Chemical Engineering Journal</i> , 2021 , 431, 133279	14.7	5
782	Shape Memory Biomaterials and Their Clinical Applications 2021 , 195-255		0
781	Zn content mediated fibrinogen adsorption on biodegradable Mg-Zn alloys surfaces. <i>Journal of Magnesium and Alloys</i> , 2021 , 9, 2145-2145	8.8	2
780	In vitro and in vivo studies to evaluate the feasibility of Zn-0.1Li and Zn-0.8Mg application in the uterine cavity microenvironment compared to pure zinc. <i>Acta Biomaterialia</i> , 2021 , 123, 393-406	10.8	6
779	Precipitation in nanostructured alloys: A brief review. <i>MRS Bulletin</i> , 2021 , 46, 250-257	3.2	2
778	Investigation of Mg-xLi-Zn alloys for potential application of biodegradable bone implant materials. <i>Journal of Materials Science: Materials in Medicine</i> , 2021 , 32, 43	4.5	2
777	Mussel bioinspired morphosynthesis of substrate anchored core-shell silver self-assemblies with multifunctionality for bioapplications. <i>Materials Science and Engineering C</i> , 2021 , 123, 112025	8.3	0
776	Regulation of macrophage polarization through surface topography design to facilitate implant-to-bone osteointegration. <i>Science Advances</i> , 2021 , 7,	14.3	41
775	Degradation behaviors and in-vivo biocompatibility of a rare earth- and aluminum-free magnesium-based stent. <i>Acta Biomaterialia</i> , 2021 , 124, 382-397	10.8	3
774	Influence of Multi-Pass Hot Extrusion on Microstructure and Mechanical Properties of the Mg ₉₂ Zn ₈ Y _{0.2} Er _{0.8} Nd Alloy. <i>Crystals</i> , 2021 , 11, 425	2.3	2
773	Na ⁺ inserted metal-organic framework for rapid therapy of bacteria-infected osteomyelitis through microwave strengthened Fenton reaction and thermal effects. <i>Nano Today</i> , 2021 , 37, 101090	17.9	27

772	Microstructure, mechanical properties and corrosion fatigue behaviour of biodegradable MgZnYNd alloy prepared by double extrusion. <i>Corrosion Engineering Science and Technology</i> , 2021 , 56, 584-593	1.7	1
771	Influence of Laser Energy Input and Shielding Gas Flow on Evaporation Fume during Laser Powder Bed Fusion of Zn Metal. <i>Materials</i> , 2021 , 14,	3.5	1
770	TRPM7 kinase-mediated immunomodulation in macrophage plays a central role in magnesium ion-induced bone regeneration. <i>Nature Communications</i> , 2021 , 12, 2885	17.4	22
769	Corrosion inhibition of Schiff bases for Mg-Zn-Y-Nd alloy in normal saline: Experimental and theoretical investigations. <i>Corrosion Science</i> , 2021 , 184, 109268	6.8	11
768	Tannic acid/Sr-coated silk/graphene oxide-based meniscus scaffold with anti-inflammatory and anti-ROS functions for cartilage protection and delaying osteoarthritis. <i>Acta Biomaterialia</i> , 2021 , 126, 119-131	10.8	10
767	Self-ion irradiation response of (CoCrFeNi) ₉₄ Ti ₂ Al ₄ alloy containing coherent nanoprecipitates. <i>Journal of Nuclear Materials</i> , 2021 , 549, 152889	3.3	1
766	Single-Atom Catalysis for Efficient Sonodynamic Therapy of Methicillin-Resistant -Infected Osteomyelitis. <i>ACS Nano</i> , 2021 , 15, 10628-10639	16.7	37
765	Enhanced Near-Infrared Photocatalytic Eradication of MRSA Biofilms and Osseointegration Using Oxide Perovskite-Based P-N Heterojunction. <i>Advanced Science</i> , 2021 , 8, e2002211	13.6	11
764	Nanoporous Nickel-Molybdenum Oxide with an Oxygen Vacancy for Electrocatalytic Nitrogen Fixation under Ambient Conditions. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 30722-30730	9.5	11
763	Fabrication of Citric Acid/RGD Multilayers on Mg-Zn-Y-Nd Alloy via Layer-by-Layer Self-Assembly for Promoting Surface Biocompatibility. <i>Advanced Materials Interfaces</i> , 2021 , 8, 2002241	4.6	6
762	Simulation of dynamic recrystallization behavior of hot extruded Mg-Zn-Y-Nd alloy tubes by the finite element method. <i>Materials Today Communications</i> , 2021 , 27, 102384	2.5	0
761	Toward a Better Regeneration through Implant-Mediated Immunomodulation: Harnessing the Immune Responses. <i>Advanced Science</i> , 2021 , 8, e2100446	13.6	15
760	PDLLA-Zn-nitrided Fe bioresorbable scaffold with 53- μ m-thick metallic struts and tunable multistage biodegradation function. <i>Science Advances</i> , 2021 , 7,	14.3	10
759	Microstructure and mechanical properties of the sub-rapidly solidified MgZnYNd alloy prepared by step-copper mold casting. <i>Materials Today Communications</i> , 2021 , 27, 102308	2.5	1
758	Rapid bacteria capturing and killing by AgNPs/N-CD@ZnO hybrids strengthened photo-responsive xerogel for rapid healing of bacteria-infected wounds. <i>Chemical Engineering Journal</i> , 2021 , 414, 128805	14.7	22
757	Very Fine-Grained Cu-0.4Mg Alloy Improving Intrauterine Device. <i>Microscopy and Microanalysis</i> , 2021 , 27, 3464-3465	0.5	
756	Hierarchical macro-microporous WPU-ECM scaffolds combined with Microfracture Promote Articular Cartilage Regeneration in Rabbits. <i>Bioactive Materials</i> , 2021 , 6, 1932-1944	16.7	9
755	Graphitic carbon nitride-based materials for photocatalytic antibacterial application. <i>Materials Science and Engineering Reports</i> , 2021 , 145, 100610	30.9	55

754	Influence of the second phase on protein adsorption on biodegradable Mg alloys' surfaces: Comparative experimental and molecular dynamics simulation studies. <i>Acta Biomaterialia</i> , 2021 , 129, 323-332	10.8	1
753	Effective easing of the side effects of copper intrauterine devices using ultra-fine-grained Cu-0.4Mg alloy. <i>Acta Biomaterialia</i> , 2021 , 128, 523-539	10.8	2
752	Biodegradable metal-derived magnesium and sodium enhances bone regeneration by angiogenesis aided osteogenesis and regulated biological apatite formation. <i>Chemical Engineering Journal</i> , 2021 , 410, 127616	14.7	2
751	Eco-friendly and degradable red phosphorus nanoparticles for rapid microbial sterilization under visible light. <i>Journal of Materials Science and Technology</i> , 2021 , 67, 70-79	9.1	19
750	A self-healing coating containing curcumin for osteoimmunomodulation to ameliorate osseointegration. <i>Chemical Engineering Journal</i> , 2021 , 403, 126323	14.7	10
749	Microstructural characteristics and mechanical properties of the hot extruded Mg-Zn-Y-Nd alloys. <i>Journal of Materials Science and Technology</i> , 2021 , 60, 44-55	9.1	31
748	Phototherapy-strengthened photocatalytic activity of polydopamine-modified metal-organic frameworks for rapid therapy of bacteria-infected wounds. <i>Journal of Materials Science and Technology</i> , 2021 , 62, 83-95	9.1	48
747	Photo-controlled degradation of PLGA/TiC hybrid coating on Mg-Sr alloy using near infrared light. <i>Bioactive Materials</i> , 2021 , 6, 568-578	16.7	13
746	Stepwise 3D-spatio-temporal magnesium cationic niche: Nanocomposite scaffold mediated microenvironment for modulating intramembranous ossification. <i>Bioactive Materials</i> , 2021 , 6, 503-519	16.7	10
745	Polyetheretherketone with citrate potentiated influx of copper boosts osteogenesis, angiogenesis, and bacteria-triggered antibacterial abilities. <i>Journal of Materials Science and Technology</i> , 2021 , 71, 31-43	9.1	2
744	Biodegradable Zn-Sr alloy for bone regeneration in rat femoral condyle defect model: In vitro and in vivo studies. <i>Bioactive Materials</i> , 2021 , 6, 1588-1604	16.7	35
743	Based on the synergistic effect of Mg and antibacterial peptides to improve the corrosion resistance, antibacterial ability and osteogenic activity of magnesium-based degradable metals. <i>Biomaterials Science</i> , 2021 , 9, 807-825	7.4	5
742	Nitrogen-containing bisphosphonate-loaded micro-arc oxidation coating for biodegradable magnesium alloy pellets inhibits osteosarcoma through targeting of the mevalonate pathway. <i>Acta Biomaterialia</i> , 2021 , 121, 682-694	10.8	6
741	Investigating the stress corrosion cracking of a biodegradable Zn-0.8wt%Li alloy in simulated body fluid. <i>Bioactive Materials</i> , 2021 , 6, 1468-1478	16.7	8
740	In vitro and in vivo studies of biodegradable Zn-Li-Mn alloy staples designed for gastrointestinal anastomosis. <i>Acta Biomaterialia</i> , 2021 , 121, 713-723	10.8	11
739	AgPO decorated black urchin-like defective TiO for rapid and long-term bacteria-killing under visible light. <i>Bioactive Materials</i> , 2021 , 6, 1575-1587	16.7	50
738	Ultrasonic Interfacial Engineering of Red Phosphorous-Metal for Eradicating MRSA Infection Effectively. <i>Advanced Materials</i> , 2021 , 33, e2006047	24	41
737	Synthesis and degradation behaviour of Zn-modified coating on Mg alloy. <i>Surface Engineering</i> , 2021 , 37, 963-971	2.6	2

736	Enhanced photocatalytic and photothermal properties of ecofriendly metal-organic framework heterojunction for rapid sterilization. <i>Chemical Engineering Journal</i> , 2021 , 405, 126730	14.7	49
735	Antibacterial Hybrid Hydrogels. <i>Macromolecular Bioscience</i> , 2021 , 21, e2000252	5.5	23
734	Strategic Advances in Spatiotemporal Control of Bioinspired Phenolic Chemistries in Materials Science. <i>Advanced Functional Materials</i> , 2021 , 31, 2008821	15.6	9
733	Rapid bacterial elimination achieved by sonodynamic Au@CuO hybrid nanocubes. <i>Nanoscale</i> , 2021 , 13, 15699-15710	7.7	4
732	Recent Progress in Photocatalytic Antibacterial.. <i>ACS Applied Bio Materials</i> , 2021 , 4, 3909-3936	4.1	27
731	Designing HA/PEI nanoparticle composite coating on biodegradable MgZnNd alloy to direct cardiovascular cells fate. <i>Smart Materials in Medicine</i> , 2021 , 2, 124-133	12.9	9
730	The recent progress on metal-organic frameworks for phototherapy. <i>Chemical Society Reviews</i> , 2021 , 50, 5086-5125	58.5	96
729	First-principles studies on structure stability, segregation, and work function of Mg doped with metal elements. <i>International Journal of Quantum Chemistry</i> , 2021 , 121, e26626	2.1	1
728	Photothermal-controlled sustainable degradation of protective coating modified Mg alloy using near-infrared light. <i>Rare Metals</i> , 2021 , 40, 2538-2551	5.5	5
727	Interfacial engineering of BiS/TiCT MXene based on work function for rapid photo-excited bacteria-killing. <i>Nature Communications</i> , 2021 , 12, 1224	17.4	82
726	Zn-0.4Li alloy shows great potential for the fixation and healing of bone fractures at load-bearing sites. <i>Chemical Engineering Journal</i> , 2021 , 417, 129317	14.7	8
725	An Engineered Pseudo-Macrophage for Rapid Treatment of Bacteria-Infected Osteomyelitis via Microwave-Excited Anti-Infection and Immunoregulation. <i>Advanced Materials</i> , 2021 , 33, e2102926	24	30
724	Zn _{0.8} Li _{0.1} Sr-a biodegradable metal with high mechanical strength comparable to pure Ti for the treatment of osteoporotic bone fractures: In vitro and in vivo studies. <i>Biomaterials</i> , 2021 , 275, 120905	15.6	12
723	Corrosion behavior of Mg wires for ureteral stent in artificial urine solution. <i>Corrosion Science</i> , 2021 , 189, 109567	6.8	6
722	Bioadaptability of biomaterials: Aiming at precision medicine. <i>Matter</i> , 2021 , 4, 2648-2650	12.7	5
721	Exploring the biodegradation of pure Zn under simulated inflammatory condition. <i>Corrosion Science</i> , 2021 , 189, 109606	6.8	4
720	Regulation of extracellular bioactive cations in bone tissue microenvironment induces favorable osteoimmune conditions to accelerate bone regeneration. <i>Bioactive Materials</i> , 2021 , 6, 2315-2330	16.7	23
719	Sequential activation of heterogeneous macrophage phenotypes is essential for biomaterials-induced bone regeneration. <i>Biomaterials</i> , 2021 , 276, 121038	15.6	13

7 ¹⁸	2D MOF Periodontitis Photodynamic Ion Therapy. <i>Journal of the American Chemical Society</i> , 2021 , 143, 15427-15439	16.4	36
7 ¹⁷	Material-herbology: An effective and safe strategy to eradicate lethal viral-bacterial pneumonia. <i>Matter</i> , 2021 , 4, 3030-3048	12.7	6
7 ¹⁶	A simple approach for synthesizing polyglycolide coating on magnesium alloy. <i>Materials Letters</i> , 2021 , 298, 130046	3.3	2
7 ¹⁵	3D-printed cell-free PCL-MECM scaffold with biomimetic micro-structure and micro-environment to enhance in situ meniscus regeneration. <i>Bioactive Materials</i> , 2021 , 6, 3620-3633	16.7	12
7 ¹⁴	Hot cracking in ZK60 magnesium alloy produced by laser powder bed fusion process. <i>Materials Letters</i> , 2021 , 301, 130283	3.3	6
7 ¹³	Cu nanoparticle-decorated two-dimensional carbon nanosheets with superior photothermal conversion efficiency of 65 % for highly efficient disinfection under near-infrared light. <i>Journal of Materials Science and Technology</i> , 2021 , 87, 83-94	9.1	8
7 ¹²	Antibacterial and cell-friendly copper-substituted tricalcium phosphate ceramics for biomedical implant applications. <i>Materials Science and Engineering C</i> , 2021 , 129, 112410	8.3	3
7 ¹¹	Improvement of ductility and work hardening ability in a high strength Zn-Mg-Y alloy via micron-sized and submicron-sized YZn ₁₂ particles. <i>Journal of Alloys and Compounds</i> , 2021 , 877, 160268	5.7	4
7 ¹⁰	Biodegradable ZnLiCa ternary alloys for critical-sized bone defect regeneration at load-bearing sites: and studies. <i>Bioactive Materials</i> , 2021 , 6, 3999-4013	16.7	10
7 ⁰⁹	Sol-gel coating loaded with inhibitor on ZE21B Mg alloy for improving corrosion resistance and endothelialization aiming at potential cardiovascular application. <i>Colloids and Surfaces B: Biointerfaces</i> , 2021 , 207, 111993	6	6
7 ⁰⁸	Improved corrosion resistance and cytocompatibility of Mg ₇₀ Zn ₁₀ Nd alloy by the electrografted polycaprolactone coating. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021 , 629, 127471	5.1	3
7 ⁰⁷	Research status of biodegradable metals designed for oral and maxillofacial applications: A review. <i>Bioactive Materials</i> , 2021 , 6, 4186-4208	16.7	16
7 ⁰⁶	The enhanced near-infrared photocatalytic and photothermal effects of MXene-based heterojunction for rapid bacteria-killing. <i>Applied Catalysis B: Environmental</i> , 2021 , 297, 120500	21.8	11
7 ⁰⁵	Three-dimensional-printed individualized porous implants: A new "implant-bone" interface fusion concept for large bone defect treatment. <i>Bioactive Materials</i> , 2021 , 6, 3659-3670	16.7	8
7 ⁰⁴	Zinc alloy-based bone internal fixation screw with antibacterial and anti-osteolytic properties. <i>Bioactive Materials</i> , 2021 , 6, 4607-4624	16.7	12
7 ⁰³	Practical strategy to construct anti-osteosarcoma bone substitutes by loading cisplatin into 3D-printed titanium alloy implants using a thermosensitive hydrogel. <i>Bioactive Materials</i> , 2021 , 6, 4542-4557	16.7	8
7 ⁰²	Nanotopography Sequentially Mediates Human Mesenchymal Stem Cell-Derived Small Extracellular Vesicles for Enhancing Osteogenesis.. <i>ACS Nano</i> , 2021 ,	16.7	2
7 ⁰¹	Sustainable release of vancomycin from micro-arc oxidised 3D-printed porous Ti6Al4V for treating methicillin-resistant Staphylococcus aureus bone infection and enhancing osteogenesis in a rabbit tibia osteomyelitis model. <i>Biomaterials Science</i> , 2020 , 8, 3106-3115	7.4	12

700	Biodegradation behavior of micro-arc oxidation coating on magnesium alloy-from a protein perspective. <i>Bioactive Materials</i> , 2020 , 5, 398-409	16.7	49
699	Micro-/Nanotopography on Bioresorbable Zinc Dictates Cytocompatibility, Bone Cell Differentiation, and Macrophage Polarization. <i>Nano Letters</i> , 2020 , 20, 4594-4602	11.5	28
698	Effects of Sr addition on microstructure, mechanical and corrosion properties of biodegradable MgZnCa alloy. <i>Journal of Alloys and Compounds</i> , 2020 , 838, 155611	5.7	21
697	A Z-scheme heterojunction of ZnO/CDots/C3N4 for strengthened photoresponsive bacteria-killing and acceleration of wound healing. <i>Journal of Materials Science and Technology</i> , 2020 , 57, 1-11	9.1	38
696	Cell-free 3D wet-electrospun PCL/silk fibroin/Sr scaffold promotes successful total meniscus regeneration in a rabbit model. <i>Acta Biomaterialia</i> , 2020 , 113, 196-209	10.8	20
695	Effects of annealing treatment on microstructure and tensile behavior of the Mg-Zn-Y-Nd alloy. <i>Journal of Magnesium and Alloys</i> , 2020 , 8, 601-613	8.8	23
694	The rapid photoresponsive bacteria-killing of Cu-doped MoS. <i>Biomaterials Science</i> , 2020 , 8, 4216-4224	7.4	30
693	and degradation behavior of Mg-2Sr-Ca and Mg-2Sr-Zn alloys. <i>Bioactive Materials</i> , 2020 , 5, 275-285	16.7	28
692	Biomechanics study of a 3D printed sacroiliac joint fixed modular hemipelvic endoprosthesis. <i>Clinical Biomechanics</i> , 2020 , 74, 87-95	2.2	1
691	Overcoming Multidrug-Resistant MRSA Using Conventional Aminoglycoside Antibiotics. <i>Advanced Science</i> , 2020 , 7, 1902070	13.6	30
690	In vitro and in vivo studies of Zn-Mn biodegradable metals designed for orthopedic applications. <i>Acta Biomaterialia</i> , 2020 , 108, 358-372	10.8	50
689	Effect of extrusion process on the mechanical and in vitro degradation performance of a biomedical Mg-Zn-Y-Nd alloy. <i>Bioactive Materials</i> , 2020 , 5, 219-227	16.7	26
688	Magnetic resonance (MR) safety and compatibility of a novel iron bioresorbable scaffold. <i>Bioactive Materials</i> , 2020 , 5, 260-274	16.7	11
687	Rapid and highly effective bacteria-killing by polydopamine/IR780@MnO2Ti using near-infrared light. <i>Progress in Natural Science: Materials International</i> , 2020 , 30, 677-685	3.6	6
686	Effects of Sc addition and aging on microstructure and martensitic transformation of Ni-rich NiTiHfSc high temperature shape memory alloys. <i>Journal of Alloys and Compounds</i> , 2020 , 845, 156331	5.7	3
685	Near-Infrared Light Triggered Phototherapy and Immunotherapy for Elimination of Methicillin-Resistant Biofilm Infection on Bone Implant. <i>ACS Nano</i> , 2020 , 14, 8157-8170	16.7	67
684	Microstructure, mechanical properties and creep behaviour of extruded Zn-xLi (x = 0.1, 0.3 and 0.4) alloys for biodegradable vascular stent applications. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 777, 139082	5.3	20
683	Ce and Er Co-doped TiO for rapid bacteria- killing using visible light. <i>Bioactive Materials</i> , 2020 , 5, 201-209	16.7	37

682	Porous zinc scaffolds for bone tissue engineering applications: A novel additive manufacturing and casting approach. <i>Materials Science and Engineering C</i> , 2020 , 110, 110738	8.3	28
681	Advances in coatings on biodegradable magnesium alloys. <i>Journal of Magnesium and Alloys</i> , 2020 , 8, 42-658	6.58	141
680	A pure zinc membrane with degradability and osteogenesis promotion for guided bone regeneration: In vitro and in vivo studies. <i>Acta Biomaterialia</i> , 2020 , 106, 396-409	10.8	34
679	Effect of grain structure on the mechanical properties and in vitro corrosion behavior of additively manufactured pure Zn. <i>Additive Manufacturing</i> , 2020 , 33, 101134	6.1	7
678	In vitro and in vivo biodegradation and biocompatibility of an MMT/BSA composite coating upon magnesium alloy AZ31. <i>Journal of Materials Science and Technology</i> , 2020 , 47, 52-67	9.1	27
677	Visible light responsive CuS/ protonated g-CN heterostructure for rapid sterilization. <i>Journal of Hazardous Materials</i> , 2020 , 393, 122423	12.8	57
676	ROS induced bactericidal activity of amorphous Zn-doped titanium oxide coatings and enhanced osseointegration in bacteria-infected rat tibias. <i>Acta Biomaterialia</i> , 2020 , 107, 313-324	10.8	34
675	Effects of alloy elements on adsorption of fibrinogen on biodegradable magnesium alloys surfaces: The MD simulations and experimental studies. <i>Applied Surface Science</i> , 2020 , 512, 145725	6.7	2
674	Corrosion fatigue of the extruded MgZnNi alloy in simulated body fluid. <i>Journal of Magnesium and Alloys</i> , 2020 , 8, 231-240	8.8	15
673	A novel photothermally controlled multifunctional scaffold for clinical treatment of osteosarcoma and tissue regeneration. <i>Materials Today</i> , 2020 , 36, 48-62	21.8	53
672	Recent Development of TiNi-Based Shape Memory Alloys with High Cycle Stability and High Transformation Temperature. <i>Advanced Engineering Materials</i> , 2020 , 22, 1900496	3.5	43
671	In-situ sulfuration of Cu-based metal-organic framework for rapid near-infrared light sterilization. <i>Journal of Hazardous Materials</i> , 2020 , 390, 122126	12.8	43
670	Rapid Photo-Sonotherapy for Clinical Treatment of Bacterial Infected Bone Implants by Creating Oxygen Deficiency Using Sulfur Doping. <i>ACS Nano</i> , 2020 , 14, 2077-2089	16.7	98
669	Alloying design of biodegradable zinc as promising bone implants for load-bearing applications. <i>Nature Communications</i> , 2020 , 11, 401	17.4	124
668	Controllable biodegradation and enhanced osseointegration of ZrO-nanofilm coated Zn-Li alloy: In vitro and in vivo studies. <i>Acta Biomaterialia</i> , 2020 , 105, 290-303	10.8	22
667	Rapid Sterilization by Photocatalytic Ag ₃ PO ₄ /Fe ₂ O ₃ Composites Using Visible Light. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 2577-2585	8.3	33
666	Biodegradation, hemocompatibility and covalent bonding mechanism of electrografting polyethylacrylate coating on Mg alloy for cardiovascular stent. <i>Journal of Materials Science and Technology</i> , 2020 , 46, 114-126	9.1	14
665	Rapid bacteria trapping and killing of metal-organic frameworks strengthened photo-responsive hydrogel for rapid tissue repair of bacterial infected wounds. <i>Chemical Engineering Journal</i> , 2020 , 396, 125194	14.7	77

664	Microstructure and properties of biodegradable Mg ₇₀ Zn ₁₅ -Nd alloy micro-tubes prepared by an improved method. <i>Journal of Alloys and Compounds</i> , 2020 , 835, 155369	5.7	2
663	In vitro and in vivo studies on pure Mg, Mg ₉₀ Ca and Mg ₉₀ Sr alloys processed by equal channel angular pressing. <i>Nano Materials Science</i> , 2020 , 2, 96-108	10.2	8
662	Engineered probiotics biofilm enhances osseointegration via immunoregulation and anti-infection. <i>Science Advances</i> , 2020 , 6,	14.3	34
661	Conjugating heparin, Arg-Glu-Asp-Val peptide, and anti-CD34 to the silanic Mg-Zn-Y-Nd alloy for better endothelialization. <i>Journal of Biomaterials Applications</i> , 2020 , 35, 158-168	2.9	12
660	Additive Manufacturing of Bioscaffolds for Bone Regeneration 2020 , 313-332		
659	Construction of Bio-functionalized ZnO Coatings on Titanium Implants with Both Self-Antibacterial and Osteoinductive Properties 2020 , 169-182		1
658	Microstructure, mechanical properties and antibacterial properties of the microwave sintered porous Ti ₃ Cu alloys. <i>Journal of Alloys and Compounds</i> , 2020 , 812, 152142	5.7	24
657	Modulation of the mechanosensing of mesenchymal stem cells by laser-induced patterning for the acceleration of tissue reconstruction through the Wnt/ β -catenin signaling pathway activation. <i>Acta Biomaterialia</i> , 2020 , 101, 152-167	10.8	32
656	Comparative in vitro study on binary Mg-RE (Sc, Y, La, Ce, Pr, Nd, Sm, Eu, Gd, Tb, Dy, Ho, Er, Tm, Yb and Lu) alloy systems. <i>Acta Biomaterialia</i> , 2020 , 102, 508-528	10.8	62
655	Preparation of Biodegradable Mg/ β -TCP Biofunctional Gradient Materials by Friction Stir Processing and Pulse Reverse Current Electrodeposition. <i>Acta Metallurgica Sinica (English Letters)</i> , 2020 , 33, 103-114	2.5	0
654	Investigation of Mg-Zn-Y-Nd alloy for potential application of biodegradable esophageal stent material. <i>Bioactive Materials</i> , 2020 , 5, 1-8	16.7	33
653	Zn-assisted photothermal therapy for rapid bacteria-killing using biodegradable humic acid encapsulated MOFs. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020 , 188, 110781	6	24
652	Improved osseointegration with rhBMP-2 intraoperatively loaded in a specifically designed 3D-printed porous Ti6Al4V vertebral implant. <i>Biomaterials Science</i> , 2020 , 8, 1279-1289	7.4	15
651	Eco-friendly Hybrids of Carbon Quantum Dots Modified MoS ₂ for Rapid Microbial Inactivation by Strengthened Photocatalysis. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 534-542	8.3	32
650	In vivo studies on Mg-1Sc alloy for orthopedic application: A 5-months evaluation in rabbits. <i>Materials Letters</i> , 2020 , 262, 127130	3.3	4
649	Evolution of metallic cardiovascular stent materials: A comparative study among stainless steel, magnesium and zinc. <i>Biomaterials</i> , 2020 , 230, 119641	15.6	58
648	Sulfur Contents in Sulfonated Hyaluronic Acid Direct the Cardiovascular Cells Fate. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 46827-46836	9.5	13
647	Microstructure and texture evolution of fine-grained Mg-Zn-Y-Nd alloy micro-tubes for biodegradable vascular stents processed by hot extrusion and rapid cooling. <i>Journal of Magnesium and Alloys</i> , 2020 , 8, 873-882	8.8	9

646	Micro-patterned hydroxyapatite/silk fibroin coatings on Mg-Zn-Y-Nd-Zr alloys for better corrosion resistance and cell behavior guidance. <i>Frontiers of Materials Science</i> , 2020 , 14, 413-425	2.5	3
645	Biodegradable Zn-Cu alloys show antibacterial activity against MRSA bone infection by inhibiting pathogen adhesion and biofilm formation. <i>Acta Biomaterialia</i> , 2020 , 117, 400-417	10.8	25
644	In vitro studies of biodegradable Zn-0.1Li alloy for potential esophageal stent application. <i>Materials Letters</i> , 2020 , 275, 128190	3.3	5
643	Photoresponsive Materials for Antibacterial Applications. <i>Cell Reports Physical Science</i> , 2020 , 1, 100245	6.1	50
642	Manufacturing of cardiovascular stents 2020 , 317-340		1
641	Microstructure, mechanical and corrosion properties of MgZnBrCa alloys for use as potential biodegradable implant materials. <i>Corrosion Engineering Science and Technology</i> , 2020 , 55, 739-746	1.7	3
640	pH-responsive silk fibroin-based CuO/Ag micro/nano coating endows polyetheretherketone with synergistic antibacterial ability, osteogenesis, and angiogenesis. <i>Acta Biomaterialia</i> , 2020 , 115, 220-234	10.8	28
639	Photoelectrons Mediating Angiogenesis and Immunotherapy through Heterojunction Film for Noninvasive Disinfection. <i>Advanced Science</i> , 2020 , 7, 2000023	13.6	18
638	An innovative strategy to treat large metaphyseal segmental femoral bone defect using customized design and 3D printed micro-porous prosthesis: a prospective clinical study. <i>Journal of Materials Science: Materials in Medicine</i> , 2020 , 31, 66	4.5	3
637	In vitro and in vivo studies on ultrafine-grained biodegradable pure Mg, Mg-Ca alloy and Mg-Sr alloy processed by high-pressure torsion. <i>Biomaterials Science</i> , 2020 , 8, 5071-5087	7.4	13
636	A tailored positively-charged hydrophobic surface reduces the risk of implant associated infections. <i>Acta Biomaterialia</i> , 2020 , 114, 421-430	10.8	10
635	In vitro and in vivo evaluation of structurally-controlled silk fibroin coatings for orthopedic infection and in-situ osteogenesis. <i>Acta Biomaterialia</i> , 2020 , 116, 223-245	10.8	18
634	Treatment of MRSA-infected osteomyelitis using bacterial capturing, magnetically targeted composites with microwave-assisted bacterial killing. <i>Nature Communications</i> , 2020 , 11, 4446	17.4	79
633	Near-infrared light controlled fast self-healing protective coating on magnesium alloy. <i>Corrosion Science</i> , 2020 , 163, 108257	6.8	27
632	Photo-responsive chitosan/Ag/MoS for rapid bacteria-killing. <i>Journal of Hazardous Materials</i> , 2020 , 383, 121122	12.8	91
631	Influence of ultra-fine grain structure on corrosion behaviour of biodegradable Mg-1Ca alloy. <i>Corrosion Science</i> , 2020 , 163, 108303	6.8	34
630	An UV to NIR-driven platform based on red phosphorus/graphene oxide film for rapid microbial inactivation. <i>Chemical Engineering Journal</i> , 2020 , 383, 123088	14.7	31
629	Enhanced photocatalytic activity and photothermal effects of Cu-doped metal-organic frameworks for rapid treatment of bacteria-infected wounds. <i>Applied Catalysis B: Environmental</i> , 2020 , 261, 118248	21.8	140

628	Serum zinc levels and multiple health outcomes: Implications for zinc-based biomaterials. <i>Bioactive Materials</i> , 2020 , 5, 410-422	16.7	26
627	Exploring the effect of amino acid and glucose on the biodegradation of pure Zn. <i>Corrosion Science</i> , 2020 , 170, 108661	6.8	6
626	Advance in Antibacterial Magnesium Alloys and Surface Coatings on Magnesium Alloys: A Review. <i>Acta Metallurgica Sinica (English Letters)</i> , 2020 , 33, 615-629	2.5	41
625	Rapid Biofilm Elimination on Bone Implants Using Near-Infrared-Activated Inorganic Semiconductor Heterostructures. <i>Advanced Healthcare Materials</i> , 2019 , 8, e1900835	10.1	44
624	AgBr Nanoparticles in Situ Growth on 2D MoS Nanosheets for Rapid Bacteria-Killing and Photodisinfection. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 34364-34375	9.5	39
623	A surface-engineered multifunctional TiO based nano-layer simultaneously elevates the corrosion resistance, osteoconductivity and antimicrobial property of a magnesium alloy. <i>Acta Biomaterialia</i> , 2019 , 99, 495-513	10.8	20
622	Comparative, real-time in situ monitoring of galvanic corrosion in Mg-Mg ₂ Ca and Mg-MgZn ₂ couples in Hank's solution. <i>Corrosion Science</i> , 2019 , 161, 108185	6.8	18
621	Micro- and Nanohemispherical 3D Imprints Modulate the Osteogenic Differentiation and Mineralization Tendency of Bone Cells. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 35513-35524	9.5	6
620	Zinc-doped Prussian blue enhances photothermal clearance of Staphylococcus aureus and promotes tissue repair in infected wounds. <i>Nature Communications</i> , 2019 , 10, 4490	17.4	170
619	High strength and high electrical conductivity CuMg alloy prepared by cryorolling. <i>Transactions of Nonferrous Metals Society of China</i> , 2019 , 29, 595-600	3.3	8
618	Metal-Organic Frameworks Incorporated Polycaprolactone Film for Enhanced Corrosion Resistance and Biocompatibility of Mg Alloy. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 18114-18124	8.3	29
617	In vitro and in vivo assessment of the biocompatibility of an paclitaxel-eluting poly-L-lactide-coated Mg-Zn-Y-Nd alloy stent in the intestine. <i>Materials Science and Engineering C</i> , 2019 , 105, 110087	8.3	12
616	Mechanical Strength, Biodegradation, and in Vitro and in Vivo Biocompatibility of Zn Biomaterials. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 6809-6819	9.5	55
615	Long-Term Prevention of Bacterial Infection and Enhanced Osteoinductivity of a Hybrid Coating with Selective Silver Toxicity. <i>Advanced Healthcare Materials</i> , 2019 , 8, e1801465	10.1	34
614	Microstructure, mechanical properties and deformation mechanisms of an as-cast Mg ₇₀ Zn ₁₀ Nd ₁₀ Er alloy for stent applications. <i>Journal of Materials Science and Technology</i> , 2019 , 35, 1211-1217	9.1	24
613	Enhancing the antibacterial efficacy of low-dose gentamicin with 5 minute assistance of phototherapy at 50 °C. <i>Biomaterials Science</i> , 2019 , 7, 1437-1447	7.4	44
612	Biofunctionalization of metallic implants by calcium phosphate coatings. <i>Bioactive Materials</i> , 2019 , 4, 196-206	16.7	109
611	Additive manufacturing of biodegradable Zn-xWE43 porous scaffolds: Formation quality, microstructure and mechanical properties. <i>Materials and Design</i> , 2019 , 181, 107937	8.1	27

610	The enhanced photocatalytic properties of MnO/g-CN heterostructure for rapid sterilization under visible light. <i>Journal of Hazardous Materials</i> , 2019 , 377, 227-236	12.8	73
609	Comparative studies of Tris-HCl, HEPES and NaHCO ₃ /CO ₂ buffer systems on the biodegradation behaviour of pure Zn in NaCl and SBF solutions. <i>Corrosion Science</i> , 2019 , 157, 205-219	6.8	33
608	Nanocrystalline Ti _{49.2} Ni _{50.8} shape memory alloy as orthopaedic implant material with better performance. <i>Journal of Materials Science and Technology</i> , 2019 , 35, 2156-2162	9.1	14
607	Interfacial Zinc Phosphate is the Key to Controlling Biocompatibility of Metallic Zinc Implants. <i>Advanced Science</i> , 2019 , 6, 1900112	13.6	50
606	Enzyme and PH responsive 5-fluorouracil (5-FU) loaded hydrogels based on olsalazine derivatives for colon-specific drug delivery. <i>European Polymer Journal</i> , 2019 , 118, 64-70	5.2	26
605	Osteogenic and pH stimuli-responsive self-healing coating on biomedical Mg-1Ca alloy. <i>Acta Biomaterialia</i> , 2019 , 92, 336-350	10.8	47
604	New nitinol endovascular stent-graft system for abdominal aortic aneurysm with finite element analysis and experimental verification. <i>Rare Metals</i> , 2019 , 38, 495-502	5.5	6
603	Near-infrared light photocatalysis and phototherapy of carbon quantum dots and au nanoparticles loaded titania nanotube array. <i>Materials and Design</i> , 2019 , 177, 107845	8.1	38
602	Creep properties of biodegradable Zn-0.1Li alloy at human body temperature: implications for its durability as stents. <i>Materials Research Letters</i> , 2019 , 7, 347-353	7.4	17
601	Electrochemical polymerization of dopamine with/without subsequent PLLA coating on Mg-Zn-Y-Nd alloy. <i>Materials Letters</i> , 2019 , 252, 202-206	3.3	11
600	Local Photothermal/Photodynamic Synergistic Therapy by Disrupting Bacterial Membrane To Accelerate Reactive Oxygen Species Permeation and Protein Leakage. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 17902-17914	9.5	88
599	Rapid and Superior Bacteria Killing of Carbon Quantum Dots/ZnO Decorated Injectable Folic Acid-Conjugated PDA Hydrogel through Dual-Light Triggered ROS and Membrane Permeability. <i>Small</i> , 2019 , 15, e1900322	11	105
598	Corrosion resistance and drug release profile of gentamicin-loaded polyelectrolyte multilayers on magnesium alloys: Effects of heat treatment. <i>Journal of Colloid and Interface Science</i> , 2019 , 547, 309-317	9.3	26
597	Influence of ordered L1 precipitation on strain-rate dependent mechanical behavior in a eutectic high entropy alloy. <i>Scientific Reports</i> , 2019 , 9, 6371	4.9	34
596	A pH-sensitive self-healing coating for biodegradable magnesium implants. <i>Acta Biomaterialia</i> , 2019 , 98, 160-173	10.8	38
595	Additive manufacturing of biodegradable metals: Current research status and future perspectives. <i>Acta Biomaterialia</i> , 2019 , 98, 3-22	10.8	92
594	Osseointegration: Long-Term Prevention of Bacterial Infection and Enhanced Osteoinductivity of a Hybrid Coating with Selective Silver Toxicity (Adv. Healthcare Mater. 5/2019). <i>Advanced Healthcare Materials</i> , 2019 , 8, 1970020	10.1	3
593	Predicting the degradation behavior of magnesium alloys with a diffusion-based theoretical model and in vitro corrosion testing. <i>Journal of Materials Science and Technology</i> , 2019 , 35, 1393-1402	9.1	16

592	Eradicating Multidrug-Resistant Bacteria Rapidly Using a Multi Functional g-C3N4@ Bi2S3 Nanorod Heterojunction with or without Antibiotics. <i>Advanced Functional Materials</i> , 2019 , 29, 1900946	15.6	79
591	Enhanced cytocompatibility and antibacterial property of zinc phosphate coating on biodegradable zinc materials. <i>Acta Biomaterialia</i> , 2019 , 98, 174-185	10.8	75
590	In vitro and in vivo studies of Mg-30Sc alloys with different phase structure for potential usage within bone. <i>Acta Biomaterialia</i> , 2019 , 98, 50-66	10.8	26
589	Diameter-dependent in vitro performance of biodegradable pure zinc wires for suture application. <i>Journal of Materials Science and Technology</i> , 2019 , 35, 1662-1670	9.1	22
588	Photocatalysis: Light-Activated Rapid Disinfection by Accelerated Charge Transfer in Red Phosphorus/ZnO Heterointerface (Small Methods 3/2019). <i>Small Methods</i> , 2019 , 3, 1970008	12.8	3
587	Characterization of the Interfacial Structure of Coarse β Precipitates in a Metastable β Ti Alloy Ti-5Al-5Mo-5V-3Cr. <i>Jom</i> , 2019 , 71, 2291-2295	2.1	6
586	The effects of a phytic acid/calcium ion conversion coating on the corrosion behavior and osteoinductivity of a magnesium-strontium alloy. <i>Applied Surface Science</i> , 2019 , 484, 511-523	6.7	20
585	Rapid and Highly Effective Noninvasive Disinfection by Hybrid Ag/CS@MnO Nanosheets Using Near-Infrared Light. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 15014-15027	9.5	59
584	Comparative Studies on Degradation Behavior of Pure Zinc in Various Simulated Body Fluids. <i>Jom</i> , 2019 , 71, 1414-1425	2.1	29
583	Fundamental Theory of Biodegradable Metals Definition, Criteria, and Design. <i>Advanced Functional Materials</i> , 2019 , 29, 1805402	15.6	111
582	In vitro degradation and biocompatibility evaluation of typical biodegradable metals (Mg/Zn/Fe) for the application of tracheobronchial stenosis. <i>Bioactive Materials</i> , 2019 , 4, 114-119	16.7	11
581	Light-Activated Rapid Disinfection by Accelerated Charge Transfer in Red Phosphorus/ZnO Heterointerface. <i>Small Methods</i> , 2019 , 3, 1900048	12.8	48
580	In vitro and in vivo investigation on biodegradable Mg-Li-Ca alloys for bone implant application. <i>Science China Materials</i> , 2019 , 62, 256-272	7.1	27
579	Lysozyme-Assisted Photothermal Eradication of Methicillin-Resistant Infection and Accelerated Tissue Repair with Natural Melanosome Nanostructures. <i>ACS Nano</i> , 2019 , 13, 11153-11167	16.7	49
578	A numerical corrosion-fatigue model for biodegradable Mg alloy stents. <i>Acta Biomaterialia</i> , 2019 , 97, 671-680	10.8	8
577	Dual Metal-Organic Framework Heterointerface. <i>ACS Central Science</i> , 2019 , 5, 1591-1601	16.8	65
576	Ag ₂ ₂ Heterostructure for Rapid Bacteria-Killing Using Near-Infrared Light. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 14982-14990	8.3	44
575	In vitro and in vivo studies on magnesium alloys to evaluate the feasibility of their use in obstetrics and gynecology. <i>Acta Biomaterialia</i> , 2019 , 97, 623-636	10.8	8

574	Development of new endovascular stent-graft system for type B thoracic aortic dissection with finite element analysis and experimental verification. <i>Journal of Materials Science and Technology</i> , 2019 , 35, 2682-2692	9.1	3
573	Gold nanoparticles-loaded hydroxyapatite composites guide osteogenic differentiation of human mesenchymal stem cells through Wnt/ β -catenin signaling pathway. <i>International Journal of Nanomedicine</i> , 2019 , 14, 6151-6163	7.3	25
572	In vitro investigation of cellular effects of magnesium and magnesium-calcium alloy corrosion products on skeletal muscle regeneration. <i>Journal of Materials Science and Technology</i> , 2019 , 35, 2503-2512	9.1	5
571	A near infrared-activated photocatalyst based on elemental phosphorus by chemical vapor deposition. <i>Applied Catalysis B: Environmental</i> , 2019 , 258, 117980	21.8	22
570	Highly Effective and Noninvasive Near-Infrared Eradication of a Biofilm on Implants by a Photoresponsive Coating within 20 Min. <i>Advanced Science</i> , 2019 , 6, 1900599	13.6	142
569	Superimposed surface plasma resonance effect enhanced the near-infrared photocatalytic activity of Au@BiWO coating for rapid bacterial killing. <i>Journal of Hazardous Materials</i> , 2019 , 380, 120818	12.8	50
568	Corrosion resistance and antibacterial activity of zinc-loaded montmorillonite coatings on biodegradable magnesium alloy AZ31. <i>Acta Biomaterialia</i> , 2019 , 98, 196-214	10.8	65
567	Challenges in the use of zinc and its alloys as biodegradable metals: Perspective from biomechanical compatibility. <i>Acta Biomaterialia</i> , 2019 , 97, 23-45	10.8	66
566	A functionalized TiO/MgTiO nano-layer on biodegradable magnesium implant enables superior bone-implant integration and bacterial disinfection. <i>Biomaterials</i> , 2019 , 219, 119372	15.6	46
565	Accelerated Bone Regeneration by Gold-Nanoparticle-Loaded Mesoporous Silica through Stimulating Immunomodulation. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 41758-41769	9.5	40
564	Photoelectric-Responsive Extracellular Matrix for Bone Engineering. <i>ACS Nano</i> , 2019 , 13, 13581-13594	16.7	27
563	Ag ₂ S decorated nanocubes with enhanced near-infrared photothermal and photodynamic properties for rapid sterilization. <i>Colloids and Interface Science Communications</i> , 2019 , 33, 100201	5.4	31
562	"Imitative" click chemistry to form a sticking xerogel for the portable therapy of bacteria-infected wounds. <i>Biomaterials Science</i> , 2019 , 7, 5383-5387	7.4	12
561	Additive manufacturing of ultrafine-grained high-strength titanium alloys. <i>Nature</i> , 2019 , 576, 91-95	50.4	276
560	Inverted Hydration Layers on Bio-Magnesium Surfaces in the Initial Degradation Stage and their Influence on Adsorption of Amino Acid Analogues: The Metadynamics Simulations. <i>Langmuir</i> , 2019 , 35, 17009-17015	4	2
559	Optimizing mechanical property and cytocompatibility of the biodegradable Mg-Zn-Y-Nd alloy by hot extrusion and heat treatment. <i>Journal of Materials Science and Technology</i> , 2019 , 35, 6-18	9.1	31
558	Constructing Multilayer Silk Protein/Nanosilver Biofunctionalized Hierarchically Structured 3D Printed Ti6Al4 V Scaffold for Repair of Infective Bone Defects. <i>ACS Biomaterials Science and Engineering</i> , 2019 , 5, 244-261	5.5	24
557	Effects of Mo contents on the microstructure, properties and cytocompatibility of the microwave sintered porous Ti-Mo alloys. <i>Materials Science and Engineering C</i> , 2019 , 97, 156-165	8.3	46

556	Enhanced Osseointegration of Zn-Mg Composites by Tuning the Release of Zn Ions with Sacrificial Mg-Rich Anode Design. <i>ACS Biomaterials Science and Engineering</i> , 2019 , 5, 453-467	5.5	35
555	A facile fabrication of novel stuff with antibacterial property and osteogenic promotion utilizing red phosphorus and near-infrared light. <i>Bioactive Materials</i> , 2019 , 4, 17-21	16.7	76
554	Formation Mechanism, Corrosion Behavior, and Cytocompatibility of Microarc Oxidation Coating on Absorbable High-Purity Zinc. <i>ACS Biomaterials Science and Engineering</i> , 2019 , 5, 487-497	5.5	28
553	Microstructure and martensitic transformation of NiTiHfSc high temperature shape memory alloys. <i>Journal of Alloys and Compounds</i> , 2019 , 779, 212-218	5.7	13
552	Zinc-Based Biomaterials for Regeneration and Therapy. <i>Trends in Biotechnology</i> , 2019 , 37, 428-441	15.1	134
551	Construction of TiO ₂ /silane nanofilm on AZ31 magnesium alloy for controlled degradability and enhanced biocompatibility. <i>Rare Metals</i> , 2019 , 38, 588-600	5.5	16
550	Triple-Bioinspired Burying/Crosslinking Interfacial Coassembly Strategy for Layer-by-Layer Construction of Robust Functional Bioceramic Self-Coatings for Osteointegration Applications. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 4447-4469	9.5	19
549	Fabrication of Cr ₂ AlC coating from a cost-efficient CrAlN target by arc ion plating. <i>Surface Innovations</i> , 2019 , 7, 4-9	1.9	2
548	Influence of Zn Content on Microstructure and Tensile Properties of Mg ₇₀ Zn ₃₀ Alloy. <i>Acta Metallurgica Sinica (English Letters)</i> , 2018 , 31, 351-361	2.5	23
547	Investigation on the in vitro cytocompatibility of Mg-Zn-Y-Nd-Zr alloys as degradable orthopaedic implant materials. <i>Journal of Materials Science: Materials in Medicine</i> , 2018 , 29, 44	4.5	15
546	In vitro evaluation of MgSr and MgCaSr alloys via direct culture with bone marrow derived mesenchymal stem cells. <i>Acta Biomaterialia</i> , 2018 , 72, 407-423	10.8	35
545	Mg-Zn-Y-Nd coated with citric acid and dopamine by layer-by-layer self-assembly to improve surface biocompatibility. <i>Science China Technological Sciences</i> , 2018 , 61, 1228-1237	3.5	31
544	An overview of graphene-based hydroxyapatite composites for orthopedic applications. <i>Bioactive Materials</i> , 2018 , 3, 1-18	16.7	115
543	Tensile, creep behavior and microstructure evolution of an as-cast Ni-based K417G polycrystalline superalloy. <i>Journal of Materials Science and Technology</i> , 2018 , 34, 1805-1816	9.1	36
542	Repeatable Photodynamic Therapy with Triggered Signaling Pathways of Fibroblast Cell Proliferation and Differentiation To Promote Bacteria-Accompanied Wound Healing. <i>ACS Nano</i> , 2018 , 12, 1747-1759	16.7	209
541	In vitro and in vivo studies on as-extruded Mg- 5.25wt.%Zn-0.6wt.%Ca alloy as biodegradable metal. <i>Science China Materials</i> , 2018 , 61, 619-628	7.1	15
540	Polydopamine-assisted functionalization of heparin and vancomycin onto microarc-oxidized 3D printed porous Ti6Al4V for improved hemocompatibility, osteogenic and anti-infection potencies. <i>Science China Materials</i> , 2018 , 61, 579-592	7.1	20
539	In Situ Disinfection through Photoinspired Radical Oxygen Species Storage and Thermal-Triggered Release from Black Phosphorous with Strengthened Chemical Stability. <i>Small</i> , 2018 , 14, 1703197	11	98

538	In Vitro and in Vivo Studies on Biomedical Magnesium Low-Alloying with Elements Gadolinium and Zinc for Orthopedic Implant Applications. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 4394-4408	9.5	57
537	Infection-prevention on Ti implants by controlled drug release from folic acid/ZnO quantum dots sealed titania nanotubes. <i>Materials Science and Engineering C</i> , 2018 , 85, 214-224	8.3	49
536	Processing and properties of magnesium alloy micro-tubes for biodegradable vascular stents. <i>Materials Science and Engineering C</i> , 2018 , 90, 504-513	8.3	31
535	Electrophoretic Deposited Stable Chitosan@MoS Coating with Rapid In Situ Bacteria-Killing Ability under Dual-Light Irradiation. <i>Small</i> , 2018 , 14, e1704347	11	125
534	Fabrication and characterization of biodegradable Mg-Zn-Y-Nd-Ag alloy: Microstructure, mechanical properties, corrosion behavior and antibacterial activities. <i>Bioactive Materials</i> , 2018 , 3, 225-235	16.7	21
533	Novel pH-responsive tobramycin-embedded micelles in nanostructured multilayer-coatings of chitosan/heparin with efficient and sustained antibacterial properties. <i>Materials Science and Engineering C</i> , 2018 , 90, 693-705	8.3	29
532	Microstructural and property evolution of Ti6Al4V powders with the number of usage in additive manufacturing by electron beam melting. <i>Materials Letters</i> , 2018 , 221, 111-114	3.3	23
531	In vitro and in vivo studies on zinc-hydroxyapatite composites as novel biodegradable metal matrix composite for orthopedic applications. <i>Acta Biomaterialia</i> , 2018 , 71, 200-214	10.8	116
530	In vitro characterization of ZM21 mini-tube used for biodegradable metallic stent. <i>Materials Letters</i> , 2018 , 211, 261-265	3.3	6
529	Diagnostics of the thickness of a plasma electrolytic oxidation coating on a nanostructured Mg-Sr alloy. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 292, 012067	0.4	0
528	Construction of perfluorohexane/IR780@liposome coating on Ti for rapid bacteria killing under permeable near infrared light. <i>Biomaterials Science</i> , 2018 , 6, 2460-2471	7.4	19
527	Zinc regulates vascular endothelial cell activity through zinc-sensing receptor ZnR/GPR39. <i>American Journal of Physiology - Cell Physiology</i> , 2018 , 314, C404-C414	5.4	34
526	Controlled-temperature photothermal and oxidative bacteria killing and acceleration of wound healing by polydopamine-assisted Au-hydroxyapatite nanorods. <i>Acta Biomaterialia</i> , 2018 , 77, 352-364	10.8	111
525	Bioabsorbable metallic stents 2018 , 99-134		3
524	Precisely controlled delivery of magnesium ions thru sponge-like monodisperse PLGA/nano-MgO-alginate core-shell microsphere device to enable in-situ bone regeneration. <i>Biomaterials</i> , 2018 , 174, 1-16	15.6	92
523	Preparation and bioactive surface modification of the microwave sintered porous Ti-15Mo alloys for biomedical application. <i>Science China Materials</i> , 2018 , 61, 545-556	7.1	10
522	Advances in functionalized polymer coatings on biodegradable magnesium alloys - A review. <i>Acta Biomaterialia</i> , 2018 , 79, 23-36	10.8	211
521	Biomimetic Ca, Sr/P-Doped Silk Fibroin Films on Mg-1Ca Alloy with Dramatic Corrosion Resistance and Osteogenic Activities. <i>ACS Biomaterials Science and Engineering</i> , 2018 , 4, 3163-3176	5.5	34

520	Tuning the Bandgap of Photo-Sensitive Polydopamine/AgPO/Graphene Oxide Coating for Rapid, Noninvasive Disinfection of Implants. <i>ACS Central Science</i> , 2018 , 4, 724-738	16.8	168
519	Rapid Biofilm Eradication on Bone Implants Using Red Phosphorus and Near-Infrared Light. <i>Advanced Materials</i> , 2018 , 30, e1801808	24	256
518	High Magnesium Corrosion Rate has an Effect on Osteoclast and Mesenchymal Stem Cell Role During Bone Remodelling. <i>Scientific Reports</i> , 2018 , 8, 10003	4.9	22
517	Nano Ag/ZnO-Incorporated Hydroxyapatite Composite Coatings: Highly Effective Infection Prevention and Excellent Osteointegration. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 1266-1277	9.5	96
516	Magnesium alloy based interference screw developed for ACL reconstruction attenuates peri-tunnel bone loss in rabbits. <i>Biomaterials</i> , 2018 , 157, 86-97	15.6	45
515	A combined coating strategy based on atomic layer deposition for enhancement of corrosion resistance of AZ31 magnesium alloy. <i>Applied Surface Science</i> , 2018 , 434, 1101-1111	6.7	44
514	Synergistic antibacterial activity of multi components in lysozyme/chitosan/silver/hydroxyapatite hybrid coating. <i>Materials and Design</i> , 2018 , 139, 351-362	8.1	56
513	In vitro degradation and biocompatibility of Mg-Li-Ca alloys: The influence of Li content. <i>Science China Materials</i> , 2018 , 61, 607-618	7.1	33
512	Microstructure, mechanical and corrosion properties of ultrafine-grained Mg-2%Sr alloy. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 380, 012014	0.4	2
511	Rapid Sterilization and Accelerated Wound Healing Using Zn ²⁺ and Graphene Oxide Modified g-C ₃ N ₄ under Dual Light Irradiation. <i>Advanced Functional Materials</i> , 2018 , 28, 1800299	15.6	173
510	Osteoimmunomodulation, osseointegration, and in vivo mechanical integrity of pure Mg coated with HA nanorod/pore-sealed MgO bilayer. <i>Biomaterials Science</i> , 2018 , 6, 3202-3218	7.4	49
509	Surface modification of the biodegradable cardiovascular stent material MgZnNi alloy via conjugating REDV peptide for better endothelialization. <i>Journal of Materials Research</i> , 2018 , 33, 4123-4133	13.5	30
508	Unraveling the osteogenesis of magnesium by the activity of osteoblasts in vitro. <i>Journal of Materials Chemistry B</i> , 2018 , 6, 6615-6621	7.3	13
507	Construction of Self-defensive Antibacterial and Osteogenic AgNPs/Gentamicin Coatings with Chitosan as Nanovalves for Controlled release. <i>Scientific Reports</i> , 2018 , 8, 13432	4.9	15
506	Endowing polyetheretherketone with synergistic bactericidal effects and improved osteogenic ability. <i>Acta Biomaterialia</i> , 2018 , 79, 216-229	10.8	37
505	Noninvasive rapid bacteria-killing and acceleration of wound healing through photothermal/photodynamic/copper ion synergistic action of a hybrid hydrogel. <i>Biomaterials Science</i> , 2018 , 6, 2110-2121	7.4	110
504	Ag/AgBr-loaded mesoporous silica for rapid sterilization and promotion of wound healing. <i>Biomaterials Science</i> , 2018 , 6, 1735-1744	7.4	50
503	Microstructure and Damping Property of Polyurethane Composites Hybridized with Ultraviolet Absorbents. <i>Advances in Materials Science and Engineering</i> , 2018 , 2018, 1-9	1.5	4

502	Effects of flow velocity and different corrosion media on the in vitro bio-corrosion behaviors of AZ31 magnesium alloy. <i>Materials Chemistry and Physics</i> , 2018 , 217, 300-307	4.4	17
501	Achieving High Strength and High Electrical Conductivity in a CuCrZr Alloy Using Equal-Channel Angular Pressing. <i>Acta Metallurgica Sinica (English Letters)</i> , 2018 , 31, 1084-1088	2.5	9
500	Preparation of single-phase Ti ₂ AlN coating by magnetron sputtering with cost-efficient hot-pressed Ti-Al-N targets. <i>Ceramics International</i> , 2018 , 44, 17530-17534	5.1	3
499	Hierarchical Micropore/Nanorod Apatite Hybrids In-Situ Grown from 3-D Printed Macroporous Ti6Al4V Implants with Improved Bioactivity and Osseointegration. <i>Journal of Materials Science and Technology</i> , 2017 , 33, 179-186	9.1	22
498	Biological effect and molecular mechanism study of biomaterials based on proteomic research. <i>Journal of Materials Science and Technology</i> , 2017 , 33, 607-615	9.1	7
497	Multiple-stage transformation behavior of Ti _{49.2} Ni _{50.8} alloy with different initial microstructure processed by equal channel angular pressing. <i>Intermetallics</i> , 2017 , 85, 163-169	3.5	14
496	Construction of N-halamine labeled silica/zinc oxide hybrid nanoparticles for enhancing antibacterial ability of Ti implants. <i>Materials Science and Engineering C</i> , 2017 , 76, 50-58	8.3	27
495	Degradation, hemolysis, and cytotoxicity of silane coatings on biodegradable magnesium alloy. <i>Materials Letters</i> , 2017 , 193, 266-269	3.3	34
494	In vivo response of AZ31 alloy as biliary stents: a 6 months evaluation in rabbits. <i>Scientific Reports</i> , 2017 , 7, 40184	4.9	10
493	Accelerating Corrosion of Pure Magnesium Co-implanted with Titanium in Vivo. <i>Scientific Reports</i> , 2017 , 7, 41924	4.9	12
492	Functionalized Polymeric Membrane with Enhanced Mechanical and Biological Properties to Control the Degradation of Magnesium Alloy. <i>Advanced Healthcare Materials</i> , 2017 , 6, 1601269	10.1	32
491	Controlled release and biocompatibility of polymer/titania nanotube array system on titanium implants. <i>Bioactive Materials</i> , 2017 , 2, 44-50	16.7	44
490	Future Research on Revolutionizing Metallic Biomaterials 2017 , 293-306		
489	Construction of poly(lactic-co-glycolic acid)/ZnO nanorods/Ag nanoparticles hybrid coating on Ti implants for enhanced antibacterial activity and biocompatibility. <i>Materials Science and Engineering C</i> , 2017 , 79, 629-637	8.3	66
488	Improved cytocompatibility of Mg-1Ca alloy modified by Zn ion implantation and deposition. <i>Materials Letters</i> , 2017 , 205, 87-89	3.3	19
487	Sr/ZnO doped titania nanotube array: An effective surface system with excellent osteoinductivity and self-antibacterial activity. <i>Materials and Design</i> , 2017 , 130, 403-412	8.1	30
486	Degradable, absorbable or resorbable? what is the best grammatical modifier for an implant that is eventually absorbed by the body?. <i>Science China Materials</i> , 2017 , 60, 377-391	7.1	40
485	Chemically robust carbon nanotube/PDMS superhydrophobic thin films with enhanced ability of wear resistance. <i>Progress in Natural Science: Materials International</i> , 2017 , 27, 396-399	3.6	9

484	Improved the in vitro cell compatibility and apatite formation of porous Ti6Al4V alloy with magnesium by plasma immersion ion implantation. <i>Materials Letters</i> , 2017 , 202, 9-12	3.3	9
483	Porous Iron-Carboxylate Metal-Organic Framework: A Novel Bioplatform with Sustained Antibacterial Efficacy and Nontoxicity. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 19248-19257	9.5	73
482	Characterization and corrosion property of nano-rod-like HA on fluoride coating supported on Mg-Zn-Ca alloy. <i>Bioactive Materials</i> , 2017 , 2, 63-70	16.7	32
481	Atomic layer deposited ZrO nanofilm on Mg-Sr alloy for enhanced corrosion resistance and biocompatibility. <i>Acta Biomaterialia</i> , 2017 , 58, 515-526	10.8	56
480	Metal Ion Coordination Polymer-Capped pH-Triggered Drug Release System on Titania Nanotubes for Enhancing Self-antibacterial Capability of Ti Implants. <i>ACS Biomaterials Science and Engineering</i> , 2017 , 3, 816-825	5.5	61
479	Design, synthesis and characterization of poly (methacrylic acid-niclosamide) and its effect on arterial function. <i>Materials Science and Engineering C</i> , 2017 , 77, 352-359	8.3	9
478	Introduction of the Biofunctions into Traditional Metallic Biomaterials 2017 , 31-57		1
477	Development of Mg-Based Degradable Metallic Biomaterials 2017 , 59-112		
476	Development of Fe-Based Degradable Metallic Biomaterials 2017 , 113-160		3
475	Development of Zn-Based Degradable Metallic Biomaterials 2017 , 161-188		
474	Development of Bulk Metallic Glasses for Biomedical Application 2017 , 189-221		
473	Development of Bulk Nanostructured Metallic Biomaterials 2017 , 223-253		
472	Titanium Implants Based on Additive Manufacture 2017 , 255-291		2
471	Adsorption of arginine, glycine and aspartic acid on Mg and Mg-based alloy surfaces: A first-principles study. <i>Applied Surface Science</i> , 2017 , 409, 149-155	6.7	16
470	The microstructure and corrosion resistance of biological Mg ₇₀ Zn ₁₀ Ca alloy processed by high-pressure torsion and subsequently annealing. <i>Journal of Materials Research</i> , 2017 , 32, 1061-1072	2.5	17
469	Biofunctionalization of carbon nanotubes/chitosan hybrids on Ti implants by atom layer deposited ZnO nanostructures. <i>Applied Surface Science</i> , 2017 , 400, 14-23	6.7	79
468	Rapamycin-loaded nanoporous γ -FeO as an endothelial favorable and thromboresistant coating for biodegradable drug-eluting Fe stent applications. <i>Journal of Materials Chemistry B</i> , 2017 , 5, 1182-1194	7.3	17
467	Preparation and characterization of amorphous SiO ₂ coatings deposited by micro-arc oxidation on sintered NdFeB permanent magnets. <i>Journal of Magnetism and Magnetic Materials</i> , 2017 , 426, 361-368	2.8	12

466	Microstructure, corrosion resistance and formation mechanism of alumina micro-arc oxidation coatings on sintered NdFeB permanent magnets. <i>Surface and Coatings Technology</i> , 2017 , 309, 621-627	4.4	22
465	Construction of poly (vinyl alcohol)/poly (lactide-glycolide acid)/vancomycin nanoparticles on titanium for enhancing the surface self-antibacterial activity and cytocompatibility. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017 , 151, 165-177	6	64
464	Development of magnesium-based biodegradable metals with dietary trace element germanium as orthopaedic implant applications. <i>Acta Biomaterialia</i> , 2017 , 64, 421-436	10.8	55
463	Characterization and cytocompatibility of polydopamine on MAO-HA coating supported on Mg-Zn-Ca alloy. <i>Surface and Interface Analysis</i> , 2017 , 49, 1115-1123	1.5	27
462	Balancing Bacteria-Osteoblast Competition through Selective Physical Puncture and Biofunctionalization of ZnO/Polydopamine/Arginine-Glycine-Aspartic Acid-Cysteine Nanorods. <i>ACS Nano</i> , 2017 , 11, 11250-11263	16.7	178
461	Tannic Acid/Fe/Ag Nanofilm Exhibiting Superior Photodynamic and Physical Antibacterial Activity. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 39657-39671	9.5	55
460	Photo-Inspired Antibacterial Activity and Wound Healing Acceleration by Hydrogel Embedded with Ag/Ag@AgCl/ZnO Nanostructures. <i>ACS Nano</i> , 2017 , 11, 9010-9021	16.7	416
459	Bioinspired and Biomimetic AgNPs/Gentamicin-Embedded Silk Fibroin Coatings for Robust Antibacterial and Osteogenetic Applications. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 25830-25846	9.5	82
458	Synergistic Bacteria Killing through Photodynamic and Physical Actions of Graphene Oxide/Ag/Collagen Coating. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 26417-26428	9.5	173
457	Evolution of the degradation mechanism of pure zinc stent in the one-year study of rabbit abdominal aorta model. <i>Biomaterials</i> , 2017 , 145, 92-105	15.6	168
456	Study on the Mg-Li-Zn ternary alloy system with improved mechanical properties, good degradation performance and different responses to cells. <i>Acta Biomaterialia</i> , 2017 , 62, 418-433	10.8	43
455	Biological Responses and Mechanisms of Human Bone Marrow Mesenchymal Stem Cells to Zn and Mg Biomaterials. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 27453-27461	9.5	108
454	Exceptional increase in the creep life of magnesium rare-earth alloys due to localized bond stiffening. <i>Nature Communications</i> , 2017 , 8, 2000	17.4	25
453	Effect of Solution Pretreatment on Homogeneity and Corrosion Resistance of Biomedical MgZnCa Alloy Processed by High Pressure Torsion. <i>Advanced Engineering Materials</i> , 2017 , 19, 1600326	3.5	7
452	Development of Biodegradable Zn-Based Medical Implants 2017 , 311-329		0
451	Calcium Phosphate Coatings for Metallic Orthopedic Biomaterials 2017 , 167-183		2
450	2017 ,		9
449	Effects of alloying elements (Ca and Sr) on microstructure, mechanical property and in vitro corrosion behavior of biodegradable Zn-5Mg alloy. <i>Journal of Alloys and Compounds</i> , 2016 , 664, 444-452	5.7	112

448	Corrosion resistance of dicalcium phosphate dihydrate/poly(lactic-co-glycolic acid) hybrid coating on AZ31 magnesium alloy. <i>Corrosion Science</i> , 2016 , 102, 209-221	6.8	71
447	Microstructure, mechanical properties, in vitro degradation behavior and hemocompatibility of novel ZnMgBr alloys as biodegradable metals. <i>Materials Letters</i> , 2016 , 162, 242-245	3.3	108
446	Implant-derived magnesium induces local neuronal production of CGRP to improve bone-fracture healing in rats. <i>Nature Medicine</i> , 2016 , 22, 1160-1169	50.5	410
445	Accelerating degradation rate of pure iron by zinc ion implantation. <i>International Journal of Energy Production and Management</i> , 2016 , 3, 205-15	5.3	27
444	Azo polymeric micelles designed for colon-targeted dimethyl fumarate delivery for colon cancer therapy. <i>Acta Biomaterialia</i> , 2016 , 44, 323-31	10.8	33
443	Mechanical properties, in vitro degradation behavior, hemocompatibility and cytotoxicity evaluation of Zn1.2Mg alloy for biodegradable implants. <i>RSC Advances</i> , 2016 , 6, 86410-86419	3.7	74
442	Electrophoretic deposition of colloidal particles on Mg with cytocompatibility, antibacterial performance, and corrosion resistance. <i>Acta Biomaterialia</i> , 2016 , 45, 387-398	10.8	42
441	New Formulas of Shear Strain during Equal-channel Angular Pressing Process with Consideration of Influences of Velocity and Motion Trajectory. <i>Journal of Iron and Steel Research International</i> , 2016 , 23, 1020-1027	1.2	3
440	Fabrication, Testing and Performance of Rare Earth-Containing Magnesium Biodegradable Metals 2016 , 311-316		
439	Stimulatory effects of the degradation products from Mg-Ca-Sr alloy on the osteogenesis through regulating ERK signaling pathway. <i>Scientific Reports</i> , 2016 , 6, 32323	4.9	47
438	Uniform and accelerated degradation of pure iron patterned by Pt disc arrays. <i>Scientific Reports</i> , 2016 , 6, 23627	4.9	31
437	Heterogenous Nucleation During β - α Transformation in Titanium Alloys 2016 , 1931-1936		
436	Development of Ultrafine β Microstructures in a Metastable α Titanium Alloy 2016 , 521-527		
435	On the Influence of Athermal β and β' Phase Instabilities on the Scale of Precipitation of the β Phase in Metastable β Ti Alloys. <i>Jom</i> , 2016 , 68, 1343-1349	2.1	7
434	In vitro studies on silver implanted pure iron by metal vapor vacuum arc technique. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016 , 142, 20-29	6	29
433	In Vitro Evaluation of the Feasibility of Commercial Zn Alloys as Biodegradable Metals. <i>Journal of Materials Science and Technology</i> , 2016 , 32, 909-918	9.1	66
432	Electrophoretic-deposited novel ternary silk fibroin/graphene oxide/hydroxyapatite nanocomposite coatings on titanium substrate for orthopedic applications. <i>Frontiers of Materials Science</i> , 2016 , 10, 270-280	2.5	18
431	Tailored Surface Treatment of 3D Printed Porous Ti6Al4V by Microarc Oxidation for Enhanced Osseointegration via Optimized Bone In-Growth Patterns and Interlocked Bone/Implant Interface. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 17964-75	9.5	112

430	A review on biodegradable materials for cardiovascular stent application. <i>Frontiers of Materials Science</i> , 2016 , 10, 238-259	2.5	35
429	Antibacterial Activity of Silver Doped Titanate Nanowires on Ti Implants. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 16584-94	9.5	80
428	Electrophoretic deposition of graphene oxide reinforced chitosan-hydroxyapatite nanocomposite coatings on Ti substrate. <i>Journal of Materials Science: Materials in Medicine</i> , 2016 , 27, 48	4.5	77
427	M5B3 Boride at the Grain Boundary of a Nickel-based Superalloy. <i>Journal of Materials Science and Technology</i> , 2016 , 32, 265-270	9.1	25
426	Microelectrode Array-evaluation of Neurotoxic Effects of Magnesium as an Implantable Biomaterial. <i>Journal of Materials Science and Technology</i> , 2016 , 32, 89-96	9.1	13
425	In vitro investigation of NiTiW shape memory alloy as potential biomaterial with enhanced radiopacity. <i>Materials Science and Engineering C</i> , 2016 , 60, 554-559	8.3	14
424	High-purity magnesium interference screws promote fibrocartilaginous entheses regeneration in the anterior cruciate ligament reconstruction rabbit model via accumulation of BMP-2 and VEGF. <i>Biomaterials</i> , 2016 , 81, 14-26	15.6	95
423	Plasma Surface Functionalized Polyetheretherketone for Enhanced Osseo-Integration at Bone-Implant Interface. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 3901-11	9.5	44
422	Influence of Nb content on martensitic transformation and mechanical properties of TiNiCuNb shape memory alloys. <i>Intermetallics</i> , 2016 , 72, 30-35	3.5	18
421	Inhibitor encapsulated, self-healable and cytocompatible chitosan multilayer coating on biodegradable Mg alloy: a pH-responsive design. <i>Journal of Materials Chemistry B</i> , 2016 , 4, 2498-2511	7.3	52
420	Micro-alloying with Mn in ZnMg alloy for future biodegradable metals application. <i>Materials and Design</i> , 2016 , 94, 95-104	8.1	146
419	Bioinspired anchoring AgNPs onto micro-nanoporous TiO ₂ orthopedic coatings: Trap-killing of bacteria, surface-regulated osteoblast functions and host responses. <i>Biomaterials</i> , 2016 , 75, 203-222	15.6	230
418	Biomedical titanium implants based on additive manufacture. <i>Zhongguo Kexue Jishu Kexue/Scientia Sinica Technologica</i> , 2016 , 46, 1097-1115	1.3	3
417	Simulation and Experimental Investigation for the Homogeneity of Ti49.2Ni50.8 Alloy Processed by Equal Channel Angular Pressing. <i>Metals</i> , 2016 , 6, 45	2.3	2
416	Investigation of β Interface Structure in Titanium Alloy Using Hrstem 2016 , 419-423		
415	Structural and Compositional Characteristics of Isothermal Omega Phase in Beta Titanium Alloys 2016 , 559-562		4
414	Enhanced in Vitro and in Vivo Performance of Mg-Zn-Y-Nd Alloy Achieved with APTES Pretreatment for Drug-Eluting Vascular Stent Application. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 17842-58	9.5	58
413	From Solution to Biointerface: Graphene Self-Assemblies of Varying Lateral Sizes and Surface Properties for Biofilm Control and Osteodifferentiation. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 17151-65	9.5	62

412	Proteomic profile of mouse fibroblasts exposed to pure magnesium extract. <i>Materials Science and Engineering C</i> , 2016 , 69, 522-31	8.3	6
411	Fretting properties of biodegradable Mg-Nd-Zn-Zr alloy in air and in Hank's solution. <i>Scientific Reports</i> , 2016 , 6, 35803	4.9	5
410	Dopamine Modified Organic-Inorganic Hybrid Coating for Antimicrobial and Osteogenesis. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 33972-33981	9.5	117
409	Design and development of novel MRI compatible zirconium- ruthenium alloys with ultralow magnetic susceptibility. <i>Scientific Reports</i> , 2016 , 6, 24414	4.9	21
408	Screening on binary Ti alloy with excellent mechanical property and castability for dental prosthesis application. <i>Scientific Reports</i> , 2016 , 6, 37428	4.9	11
407	Microstructure, mechanical properties, corrosion behavior and hemolysis of as-extruded biodegradable Mg-Sn-Zn alloy 2016 ,		1
406	Unique antitumor property of the Mg-Ca-Sr alloys with addition of Zn. <i>Scientific Reports</i> , 2016 , 6, 21736	4.9	26
405	Design and development of novel antibacterial Ti-Ni-Cu shape memory alloys for biomedical application. <i>Scientific Reports</i> , 2016 , 6, 37475	4.9	25
404	Study on the in vitro degradation behavior of pure Mg and WE43 in human bile for 60 days for future usage in biliary. <i>Materials Letters</i> , 2016 , 179, 100-103	3.3	24
403	Fatigue behaviors of HP-Mg, Mg-Ca and Mg-Zn-Ca biodegradable metals in air and simulated body fluid. <i>Acta Biomaterialia</i> , 2016 , 41, 351-60	10.8	66
402	Recent advances in bulk metallic glasses for biomedical applications. <i>Acta Biomaterialia</i> , 2016 , 36, 1-20	10.8	220
401	Magnesium-calcium/hydroxyapatite (Mg-Ca/HA) composites with enhanced bone differentiation properties for orthopedic applications. <i>Materials Letters</i> , 2016 , 172, 193-197	3.3	24
400	Effect of annealing temperature on martensitic transformation of Ti49.2Ni50.8 alloy processed by equal channel angular pressing. <i>Transactions of Nonferrous Metals Society of China</i> , 2016 , 26, 448-455	3.3	13
399	In Vitro Corrosion and Cytocompatibility of a Microarc Oxidation Coating and Poly(L-lactic acid) Composite Coating on Mg-1Li-1Ca Alloy for Orthopedic Implants. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 10014-28	9.5	194
398	Surface functionalization of biomaterials by radical polymerization. <i>Progress in Materials Science</i> , 2016 , 83, 191-235	42.2	99
397	Design of magnesium alloys with controllable degradation for biomedical implants: From bulk to surface. <i>Acta Biomaterialia</i> , 2016 , 45, 2-30	10.8	203
396	Additively Manufactured Macroporous Titanium with Silver-Releasing Micro-/Nanoporous Surface for Multipurpose Infection Control and Bone Repair - A Proof of Concept. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 28495-28510	9.5	69
395	Characterization of Alpha/Beta Interface Structure in a Titanium Alloy Using Aberration-Corrected Scanning Transmission Electron Microscope. <i>Microscopy and Microanalysis</i> , 2016 , 22, 1974-1975	0.5	

394	Microstructure, Mechanical Properties, Corrosion Behavior and Biocompatibility of As-Extruded Biodegradable Mg ₃ Sn ₁ Zn _{0.5} Mn Alloy. <i>Journal of Materials Science and Technology</i> , 2016 , 32, 874-882	9.1	47
393	Biomedical Applications of Functionalized ZnO Nanomaterials: from Biosensors to Bioimaging. <i>Advanced Materials Interfaces</i> , 2016 , 3, 1500494	4.6	111
392	In vitro and in vivo studies on the degradation of high-purity Mg (99.99wt.%) screw with femoral intracondylar fractured rabbit model. <i>Biomaterials</i> , 2015 , 64, 57-69	15.6	152
391	Microstructure, phase transformation and mechanical property of Nb-doped Ni ₄ Mn ₂ Co alloys. <i>Intermetallics</i> , 2015 , 64, 37-43	3.5	9
390	A novel cytocompatible, hierarchical porous Ti6Al4V scaffold with immobilized silver nanoparticles. <i>Materials Letters</i> , 2015 , 157, 143-146	3.3	13
389	Influence of biocompatible metal ions (Ag, Fe, Y) on the surface chemistry, corrosion behavior and cytocompatibility of Mg-1Ca alloy treated with MEVVA. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015 , 133, 99-107	6	15
388	Addition of Zn to the ternary Mg-Ca-Sr alloys significantly improves their antibacterial property. <i>Journal of Materials Chemistry B</i> , 2015 , 3, 6676-6689	7.3	53
387	Design and characterizations of novel biodegradable ternary Zn-based alloys with IIA nutrient alloying elements Mg, Ca and Sr. <i>Materials and Design</i> , 2015 , 83, 95-102	8.1	166
386	Effect of enhanced interfacial reaction on the microstructure, phase transformation and mechanical property of Ni ₄ Mn ₂ Co particles/Mg composites. <i>Materials and Design</i> , 2015 , 82, 77-83	8.1	15
385	In vitro investigation of ultra-pure Zn and its mini-tube as potential bioabsorbable stent material. <i>Materials Letters</i> , 2015 , 161, 53-56	3.3	64
384	Recommendation for modifying current cytotoxicity testing standards for biodegradable magnesium-based materials. <i>Acta Biomaterialia</i> , 2015 , 21, 237-49	10.8	201
383	The Preparation and Characterization of NiTi/CNT/Polyurethane Composite. <i>Materials Science Forum</i> , 2015 , 813, 243-249	0.4	1
382	Microstructure and martensitic transformation of TiNiNbB shape memory alloys. <i>Intermetallics</i> , 2015 , 64, 32-36	3.5	5
381	Effect of pore sizes on the microstructure and properties of the biomedical porous NiTi alloys prepared by microwave sintering. <i>Journal of Alloys and Compounds</i> , 2015 , 645, 137-142	5.7	38
380	Multifunctional MgF ₂ /Polydopamine Coating on Mg Alloy for Vascular Stent Application. <i>Journal of Materials Science and Technology</i> , 2015 , 31, 733-743	9.1	55
379	ProFile Vortex and Vortex Blue Nickel-Titanium Rotary Instruments after Clinical Use. <i>Journal of Endodontics</i> , 2015 , 41, 937-42	4.7	33
378	Polydopamine-induced nanocomposite Ag/CaP coatings on the surface of titania nanotubes for antibacterial and osteointegration functions. <i>Journal of Materials Chemistry B</i> , 2015 , 3, 8796-8805	7.3	48
377	In vitro cytotoxicity of calcium silicate-containing endodontic sealers. <i>Journal of Endodontics</i> , 2015 , 41, 56-61	4.7	100

376	Effect of aging and ball milling on the phase transformation of Ni ₅₀ Mn ₂₅ Ga ₁₇ Cu ₈ Zr _x alloys. <i>Intermetallics</i> , 2015 , 58, 56-61	3.5	4
375	High damping capacity in a wide temperature range of a compositionally graded TiNi alloy prepared by electroplating and diffusion annealing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 623, 1-3	5.3	11
374	Microstructure, mechanical properties and superelasticity of biomedical porous NiTi alloy prepared by microwave sintering. <i>Materials Science and Engineering C</i> , 2015 , 46, 387-93	8.3	51
373	Effect of the addition of low rare earth elements (lanthanum, neodymium, cerium) on the biodegradation and biocompatibility of magnesium. <i>Acta Biomaterialia</i> , 2015 , 11, 554-62	10.8	132
372	Hemolysis and cytotoxicity mechanisms of biodegradable magnesium and its alloys. <i>Materials Science and Engineering C</i> , 2015 , 46, 202-6	8.3	80
371	Microstructure and mechanical properties of Zn based composites reinforced by Ti ₃ AlC ₂ . <i>Advances in Applied Ceramics</i> , 2015 , 114, 315-320	2.3	4
370	Biodegradation Mechanism and Influencing Factors of Mg and Its Alloys 2015 , 37-68		0
369	Mg with High Purity for Biomedical Applications 2015 , 143-172		
368	Mg-RE-Based Alloy Systems for Biomedical Applications 2015 , 311-376		1
367	A Biodegradable Coating Based on Self-Assembled Hybrid Nanoparticles to Control the Performance of Magnesium. <i>Macromolecular Chemistry and Physics</i> , 2015 , 216, 1952-1962	2.6	6
366	Microstructure, Phase Transformation and Mechanical Property of Ni-Co-Mn-In Alloy Prepared by Spark Plasma Sintering. <i>Materials Science Forum</i> , 2015 , 815, 222-226	0.4	2
365	Surface modification by natural biopolymer coatings on magnesium alloys for biomedical applications 2015 , 301-333		6
364	Development of biodegradable Zn-1X binary alloys with nutrient alloying elements Mg, Ca and Sr. <i>Scientific Reports</i> , 2015 , 5, 10719	4.9	187
363	The inverse correlation between series resistance and parallel resistance of small molecule organic solar cells. <i>Progress in Natural Science: Materials International</i> , 2015 , 25, 323-326	3.6	5
362	Controlled release and corrosion protection by self-assembled colloidal particles electrodeposited onto magnesium alloys. <i>Journal of Materials Chemistry B</i> , 2015 , 3, 1667-1676	7.3	20
361	Microstructure, mechanical properties, castability and in vitro biocompatibility of Ti-Bi alloys developed for dental applications. <i>Acta Biomaterialia</i> , 2015 , 15, 254-65	10.8	23
360	Cytotoxicity and its test methodology for a bioabsorbable nitrided iron stent. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2015 , 103, 764-76	3.5	29
359	Relatively uniform and accelerated degradation of pure iron coated with micro-patterned Au disc arrays. <i>Materials Science and Engineering C</i> , 2015 , 48, 679-87	8.3	26

358	Characterization of modified magnesium and magnesium alloys for biomedical applications 2015 , 263-282	2
357	Enhanced Bioactivity of Biomedical NiTi Through Surface Plasma Polymerization. <i>Nanoscience and Nanotechnology Letters</i> , 2015 , 7, 220-225	0.8 6
356	Biocompatibility of nano-hydroxyapatite/Mg-Zn-Ca alloy composite scaffolds to human umbilical cord mesenchymal stem cells from Wharton's jelly in vitro. <i>Science China Life Sciences</i> , 2014 , 57, 181-7	8.5 10
355	TiNi shape memory alloy coated with tungsten: a novel approach for biomedical applications. <i>Journal of Materials Science: Materials in Medicine</i> , 2014 , 25, 1249-55	4.5 17
354	A novel hydrogen peroxide biosensor based on hemoglobin-collagen-CNTs composite nanofibers. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014 , 118, 77-82	6 31
353	Biodegradable metals. <i>Materials Science and Engineering Reports</i> , 2014 , 77, 1-34	30.9 1355
352	In Vitro Study on Mg ₅₀ Sn ₅₀ Mn Alloy as Biodegradable Metals. <i>Journal of Materials Science and Technology</i> , 2014 , 30, 675-685	9.1 42
351	Cell response of nanographene platelets to human osteoblast-like MG63 cells. <i>Journal of Biomedical Materials Research - Part A</i> , 2014 , 102, 732-42	5.4 17
350	Graphene oxide/hydroxyapatite composite coatings fabricated by electrophoretic nanotechnology for biological applications. <i>Carbon</i> , 2014 , 67, 185-197	10.4 213
349	Microstructure and characteristics of interpenetrating β -TCP/Mg ₇₀ Zn ₃₀ Mn composite fabricated by suction casting. <i>Materials & Design</i> , 2014 , 54, 995-1001	28
348	Ti-Ga binary alloys developed as potential dental materials. <i>Materials Science and Engineering C</i> , 2014 , 34, 474-83	8.3 22
347	Micro-arc oxidization of a novel Mg ₉₀ Ca alloy in three alkaline KF electrolytes: Corrosion resistance and cytotoxicity. <i>Applied Surface Science</i> , 2014 , 292, 1030-1039	6.7 58
346	Biological behavior of fibroblast on contractile collagen hydrogel crosslinked by γ irradiation. <i>Journal of Biomedical Materials Research - Part A</i> , 2014 , 102, 2669-79	5.4 5
345	Effect of aging on martensitic transformation and superelasticity of TiNiCr shape memory alloy. <i>Transactions of Nonferrous Metals Society of China</i> , 2014 , 24, 2598-2605	3.3 3
344	Effect of Zr addition on the microstructure, phase transformation and mechanical property of Ni ₅₀ Mn ₂₅ Ga ₁₇ Cu ₈ alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 617, 46-51	5.3 7
343	Polymeric nanoarchitectures on Ti-based implants for antibacterial applications. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 17323-45	9.5 71
342	Microstructure, phase transformation and mechanical property of Ni ₅₀ Mn ₅₀ Ca particles/Mg composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 615, 273-277	5.3 15
341	Functionalized TiO ₂ Based Nanomaterials for Biomedical Applications. <i>Advanced Functional Materials</i> , 2014 , 24, 5464-5481	15.6 168

340	One-step electrodeposition of self-assembled colloidal particles: a novel strategy for biomedical coating. <i>Langmuir</i> , 2014 , 30, 11002-10	4	20
339	Corrosion and characterisation of dual phase Mg ₉₂ Ti ₈ Ca alloy in Hank's solution: The influence of microstructural features. <i>Corrosion Science</i> , 2014 , 79, 69-82	6.8	206
338	Effect of surface mechanical attrition treatment on biodegradable Mg-1Ca alloy. <i>Materials Science and Engineering C</i> , 2014 , 35, 314-21	8.3	46
337	Integrated Computational Materials Engineering (ICME) Approach to Design of Novel Microstructures for Ti-Alloys. <i>Jom</i> , 2014 , 66, 1287-1298	2.1	26
336	In Vitro Comparative Effect of Three Novel Borate Bioglasses on the Behaviors of Osteoblastic MC3T3-E1 Cells. <i>Journal of Materials Science and Technology</i> , 2014 , 30, 979-983	9.1	7
335	Synthesis and properties of a bio-composite coating formed on magnesium alloy by one-step method of micro-arc oxidation. <i>Journal of Alloys and Compounds</i> , 2014 , 590, 247-253	5.7	59
334	Bio-inspired self-cleaning PAAS hydrogel released coating for marine antifouling. <i>Journal of Colloid and Interface Science</i> , 2014 , 421, 178-83	9.3	25
333	Microstructure and martensitic transformation of an ultrafine-grained TiNiNb shape memory alloy processed by equal channel angular pressing. <i>Intermetallics</i> , 2014 , 49, 81-86	3.5	29
332	Biomimetic porous scaffolds for bone tissue engineering. <i>Materials Science and Engineering Reports</i> , 2014 , 80, 1-36	30.9	666
331	In vitro degradation and biocompatibility of Fe-Pd and Fe-Pt composites fabricated by spark plasma sintering. <i>Materials Science and Engineering C</i> , 2014 , 35, 43-53	8.3	82
330	Microstructure and phase transformation of Ni ₄₆ Mn ₃₃ Ga ₁₇ Cu ₄ Zr _x alloys. <i>Materials Letters</i> , 2014 , 116, 307-310	3.3	4
329	Fracture behavior and structural transition of Ni ₄₆ Mn ₃₃ Ga ₁₇ Cu ₄ Zr _x alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 607, 95-101	5.3	6
328	Enhanced antimicrobial properties, cytocompatibility, and corrosion resistance of plasma-modified biodegradable magnesium alloys. <i>Acta Biomaterialia</i> , 2014 , 10, 544-56	10.8	157
327	Electroless iron plating on pure magnesium for biomedical applications. <i>Materials Letters</i> , 2014 , 130, 154-156	3.3	10
326	Transformation hysteresis and shape memory effect of an ultrafine-grained TiNiNb shape memory alloy. <i>Intermetallics</i> , 2014 , 54, 133-135	3.5	19
325	Effects of fluctuant magnesium concentration on phenotype of the primary chondrocytes. <i>Journal of Biomedical Materials Research - Part A</i> , 2014 , 102, 4455-63	5.4	8
324	Optimization of dual effects of Mg ₉₂ Ti ₈ Ca alloys on the behavior of chondrocytes and osteoblasts in vitro. <i>Progress in Natural Science: Materials International</i> , 2014 , 24, 433-440	3.6	2
323	Doping inorganic ions to regulate bioactivity of Ca ₂ P coating on bioabsorbable high purity magnesium. <i>Progress in Natural Science: Materials International</i> , 2014 , 24, 479-485	3.6	6

322	Fabrication and characterization of Mg/P(LLA-CL)-blended nanofiber scaffold. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2014 , 25, 1013-27	3.5	7
321	In vivo and in vitro evaluation of effects of Mg-6Zn alloy on apoptosis of common bile duct epithelial cell. <i>BioMetals</i> , 2014 , 27, 1217-30	3.4	20
320	In vitro corrosion of Mg _{0.21} Li _{0.12} Ca _{0.1} Y alloy. <i>Progress in Natural Science: Materials International</i> , 2014 , 24, 492-499	3.6	32
319	Progress of biodegradable metals. <i>Progress in Natural Science: Materials International</i> , 2014 , 24, 414-422	3.6	222
318	In vitro and in vivo studies on biodegradable magnesium alloy. <i>Progress in Natural Science: Materials International</i> , 2014 , 24, 466-471	3.6	34
317	Shape and site dependent in vivo degradation of Mg-Zn pins in rabbit femoral condyle. <i>International Journal of Molecular Sciences</i> , 2014 , 15, 2959-70	6.3	10
316	A novel biofuel cell based on electrospun collagen-carbon nanotube nanofibres. <i>Bio-Medical Materials and Engineering</i> , 2014 , 24, 229-35	1	6
315	Facile immobilization of heparin on bioabsorbable iron via mussel adhesive protein (MAPs). <i>Progress in Natural Science: Materials International</i> , 2014 , 24, 458-465	3.6	9
314	Microstructure, mechanical property, biodegradation behavior, and biocompatibility of biodegradable Fe-Fe ₂ O ₃ composites. <i>Journal of Biomedical Materials Research - Part A</i> , 2014 , 102, 2277-87	5.4	42
313	Corrosion of magnesium and magnesium-calcium alloy in biologically-simulated environment. <i>Progress in Natural Science: Materials International</i> , 2014 , 24, 539-546	3.6	28
312	Chemically anchoring of TiO ₂ coating on OH-terminated Mg ₃ (PO ₃) ₂ surface and its influence on the in vitro degradation resistance of Mg-Zn-Ca alloy. <i>Applied Surface Science</i> , 2014 , 308, 38-42	6.7	32
311	Magnetic field induced strain and damping behavior of Ni-Mn-Ca particles/epoxy resin composite. <i>Journal of Alloys and Compounds</i> , 2014 , 604, 137-141	5.7	18
310	Martensitic transformation and magnetic properties of Ti-doped NiCoMnSn shape memory alloy. <i>Rare Metals</i> , 2014 , 33, 511-515	5.5	15
309	Microstructures, mechanical behavior, cellular response, and hemocompatibility of bulk ultrafine-grained pure tantalum. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2014 , 102, 221-30	3.5	13
308	A Comparative in vitro Study on Biomedical Zr _{0.5} X (X=Ti, Nb, Sn) Alloys. <i>Journal of Materials Science and Technology</i> , 2014 , 30, 299-306	9.1	25
307	Formation mechanism of Ca-deficient hydroxyapatite coating on Mg-Zn-Ca alloy for orthopaedic implant. <i>Applied Surface Science</i> , 2014 , 307, 92-100	6.7	66
306	HyFlex nickel-titanium rotary instruments after clinical use: metallurgical properties. <i>International Endodontic Journal</i> , 2013 , 46, 720-9	5.4	52
305	Electrophoretic deposition and electrochemical behavior of novel graphene oxide-hyaluronic acid-hydroxyapatite nanocomposite coatings. <i>Applied Surface Science</i> , 2013 , 284, 804-810	6.7	69

304	Plasma enhanced chemical vapor deposited silicon coatings on Mg alloy for biomedical application. <i>Surface and Coatings Technology</i> , 2013 , 228, S262-S265	4.4	28
303	Fabrication and Characterization of Porous Sintered TiAg Compacts for Biomedical Application Purpose. <i>Journal of Materials Science and Technology</i> , 2013 , 29, 330-338	9.1	14
302	In vitro and in vivo studies on Ti-based bulk metallic glass as potential dental implant material. <i>Materials Science and Engineering C</i> , 2013 , 33, 3489-97	8.3	46
301	Comparative in Vitro Study on Pure Metals (Fe, Mn, Mg, Zn and W) as Biodegradable Metals. <i>Journal of Materials Science and Technology</i> , 2013 , 29, 619-627	9.1	127
300	Current challenges and concepts of the thermomechanical treatment of nickel-titanium instruments. <i>Journal of Endodontics</i> , 2013 , 39, 163-72	4.7	285
299	Suppression of β phase in Ni ₃₈ Co ₁₂ Mn ₄₁ Sn ₉ alloy by melt spinning and its effect on martensitic transformation and magnetic properties. <i>Intermetallics</i> , 2013 , 36, 81-85	3.5	32
298	Tantalum coated NiTi alloy by PIIID for biomedical application. <i>Surface and Coatings Technology</i> , 2013 , 228, S2-S6	4.4	28
297	Screening on binary Zr-1X (X = Ti, Nb, Mo, Cu, Au, Pd, Ag, Ru, Hf and Bi) alloys with good in vitro cytocompatibility and magnetic resonance imaging compatibility. <i>Acta Biomaterialia</i> , 2013 , 9, 9578-87	10.8	32
296	Magnetic-field-induced reverse transformation in a NiCoMnSn high temperature ferromagnetic shape memory alloy. <i>Journal of Magnetism and Magnetic Materials</i> , 2013 , 347, 72-74	2.8	12
295	Physical properties of 5 root canal sealers. <i>Journal of Endodontics</i> , 2013 , 39, 1281-6	4.7	208
294	Corrosion protection of Mg-Zn-Y-Nd alloy by flower-like nanostructured TiO ₂ film for vascular stent application. <i>Journal of Chemical Technology and Biotechnology</i> , 2013 , 88, n/a-n/a	3.5	2
293	Influence of annealing on NiTi shape memory alloy subjected to severe plastic deformation. <i>Intermetallics</i> , 2013 , 32, 344-351	3.5	45
292	In vitro corrosion behavior and cellular response of thermally oxidized ZrBSn alloy. <i>Applied Surface Science</i> , 2013 , 265, 878-888	6.7	21
291	Fabrication of mineralized electrospun PLGA and PLGA/gelatin nanofibers and their potential in bone tissue engineering. <i>Materials Science and Engineering C</i> , 2013 , 33, 699-706	8.3	68
290	Microstructure, mechanical property, corrosion behavior, and in vitro biocompatibility of Zr-Mo alloys. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2013 , 101, 237-46	3.5	29
289	Effect of sterilization process on surface characteristics and biocompatibility of pure Mg and MgCa alloys. <i>Materials Science and Engineering C</i> , 2013 , 33, 4144-54	8.3	23
288	Phase transformation behavior and mechanical properties of thermomechanically treated K3XF nickel-titanium instruments. <i>Journal of Endodontics</i> , 2013 , 39, 919-23	4.7	41
287	In vitro Study on Biodegradable AZ31 Magnesium Alloy Fibers Reinforced PLGA Composite. <i>Journal of Materials Science and Technology</i> , 2013 , 29, 545-550	9.1	50

286	Microstructure, mechanical property and corrosion behavior of interpenetrating (HA+ β TCP)/MgCa composite fabricated by suction casting. <i>Materials Science and Engineering C</i> , 2013 , 33, 4266-73	8.3	30
285	Effects of ball milling time on porous Ti β Ag alloy and its apatite-inducing abilities. <i>Transactions of Nonferrous Metals Society of China</i> , 2013 , 23, 1356-1366	3.3	6
284	In vitro corrosion and biocompatibility of phosphating modified WE43 magnesium alloy. <i>Transactions of Nonferrous Metals Society of China</i> , 2013 , 23, 996-1001	3.3	20
283	Superelasticity and its stability of an ultrafine-grained Ti49.2Ni50.8 shape memory alloy processed by equal channel angular pressing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 587, 61-64	5.3	18
282	In vivo stimulation of bone formation by aluminum and oxygen plasma surface-modified magnesium implants. <i>Biomaterials</i> , 2013 , 34, 9863-76	15.6	83
281	Low-modulus Mg/PCL hybrid bone substitute for osteoporotic fracture fixation. <i>Biomaterials</i> , 2013 , 34, 7016-32	15.6	88
280	Electrochemistry properties of multilayer TiN/Ti coatings on NiTi alloy for cardiac occluder application. <i>Surface and Coatings Technology</i> , 2013 , 228, S257-S261	4.4	11
279	Development and properties of Ti-In binary alloys as dental biomaterials. <i>Materials Science and Engineering C</i> , 2013 , 33, 1601-6	8.3	24
278	A review on in vitro corrosion performance test of biodegradable metallic materials. <i>Transactions of Nonferrous Metals Society of China</i> , 2013 , 23, 2283-2293	3.3	83
277	Microstructure and room temperature mechanical properties of NiAl β Tr(Mo)(Hf, Dy) hypoeutectic alloy prepared by injection casting. <i>Transactions of Nonferrous Metals Society of China</i> , 2013 , 23, 983-990	3.3	32
276	Mechanical property, biocorrosion and in vitro biocompatibility evaluations of Mg-Li-(Al)-(RE) alloys for future cardiovascular stent application. <i>Acta Biomaterialia</i> , 2013 , 9, 8488-98	10.8	107
275	In vitro cytotoxicity evaluation of a novel root repair material. <i>Journal of Endodontics</i> , 2013 , 39, 478-83	4.7	129
274	In situ synthesis and biocompatibility of nano hydroxyapatite on pristine and chitosan functionalized graphene oxide. <i>Journal of Materials Chemistry B</i> , 2013 , 1, 475-484	7.3	181
273	In vitro bioactivity and biocompatibility evaluation of bulk nanostructured titanium in osteoblast-like cells by quantitative proteomic analysis. <i>Journal of Materials Chemistry B</i> , 2013 , 1, 1926-1938	7.3	9
272	In vitro and in vivo studies on biodegradable CaMgZnSrYb high-entropy bulk metallic glass. <i>Acta Biomaterialia</i> , 2013 , 9, 8561-73	10.8	117
271	Novel Magnesium Alloys Developed for Biomedical Application: A Review. <i>Journal of Materials Science and Technology</i> , 2013 , 29, 489-502	9.1	446
270	Electrospun Chitosan-graft-PLGA nanofibres with significantly enhanced hydrophilicity and improved mechanical property. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013 , 102, 674-81	6	50
269	Surface characteristics and electrochemical corrosion behavior of NiTi alloy coated with IrO ₂ . <i>Materials Science and Engineering C</i> , 2013 , 33, 15-20	8.3	17

268	Microstructure, mechanical property and corrosion behaviors of interpenetrating C/Mg-Zn-Mn composite fabricated by suction casting. <i>Materials Science and Engineering C</i> , 2013 , 33, 618-25	8.3	26
267	An overview of the mechanical properties of nickel-titanium endodontic instruments. <i>Endodontic Topics</i> , 2013 , 29, 42-54		43
266	Effects of carbon and nitrogen plasma immersion ion implantation on in vitro and in vivo biocompatibility of titanium alloy. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 1510-6	9.5	70
265	In vitro study on newly designed biodegradable Fe-X composites (X = W, CNT) prepared by spark plasma sintering. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2013 , 101, 485-97	3.5	58
264	A novel copper/polydimethylsiloxane nanocomposite for copper-containing intrauterine contraceptive devices. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2013 , 101, 1428-36	3.5	12
263	In vitro and in vivo studies on nanocrystalline Ti fabricated by equal channel angular pressing with microcrystalline CP Ti as control. <i>Journal of Biomedical Materials Research - Part A</i> , 2013 , 101, 1694-707	5.4	35
262	Wear mechanism and tribological characteristics of porous NiTi shape memory alloy for bone scaffold. <i>Journal of Biomedical Materials Research - Part A</i> , 2013 , 101, 2586-601	5.4	13
261	Corrosion resistance and cytotoxicity of a MgF ₂ coating on biomedical Mg-Ca alloy via vacuum evaporation deposition method. <i>Surface and Interface Analysis</i> , 2013 , 45, 1217-1222	1.5	43
260	Biocorrosion of coated Mg-Zn-Ca alloy under constant compressive stress close to that of human tibia. <i>Materials Letters</i> , 2012 , 70, 174-176	3.3	14
259	Fabrication of chitosan/magnesium phosphate composite coating and the in vitro degradation properties of coated magnesium alloy. <i>Materials Letters</i> , 2012 , 73, 59-61	3.3	66
258	In vitro investigation of novel Ni free Zr-based bulk metallic glasses as potential biomaterials. <i>Materials Letters</i> , 2012 , 75, 74-76	3.3	24
257	Thermal cycling stability of ultrafine-grained TiNi shape memory alloys processed by equal channel angular pressing. <i>Scripta Materialia</i> , 2012 , 67, 1-4	5.6	31
256	Two-way shape memory effect of TiNiSn alloys developed by martensitic deformation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 550, 434-437	5.3	8
255	Corrosion performances in simulated body fluids and cytotoxicity evaluation of Fe-based bulk metallic glasses. <i>Materials Science and Engineering C</i> , 2012 , 32, 599-606	8.3	69
254	Microstructure, corrosion behavior and cytotoxicity of Zr-Nb alloys for biomedical application. <i>Materials Science and Engineering C</i> , 2012 , 32, 851-857	8.3	57
253	In vitro study on porous silver scaffolds prepared by electroplating method using cellular carbon skeleton as the substrate. <i>Materials Science and Engineering C</i> , 2012 , 32, 909-915	8.3	1
252	The microstructure and properties of cyclic extrusion compression treated Mg-Zn-Y-Nd alloy for vascular stent application. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2012 , 8, 1-7	4.1	78
251	Development of Ti-Ag-Fe ternary titanium alloy for dental application. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2012 , 100, 185-96	3.5	17

250	Study on bio-corrosion and cytotoxicity of a sr-based bulk metallic glass as potential biodegradable metal. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2012 , 100, 368-77	3.5	21
249	In vivo degradation and bone response of a composite coating on Mg-Zn-Ca alloy prepared by microarc oxidation and electrochemical deposition. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2012 , 100, 533-43	3.5	53
248	Mechanical properties of controlled memory and superelastic nickel-titanium wires used in the manufacture of rotary endodontic instruments. <i>Journal of Endodontics</i> , 2012 , 38, 1535-40	4.7	71
247	Effect of extrusion process on microstructure and mechanical properties of Ni3Al-B-Cr alloy during self-propagation high-temperature synthesis. <i>Transactions of Nonferrous Metals Society of China</i> , 2012 , 22, 489-495	3.3	24
246	Composite coating prepared by micro-arc oxidation followed by sol-gel process and in vitro degradation properties. <i>Applied Surface Science</i> , 2012 , 258, 2939-2943	6.7	29
245	Surface characteristics and corrosion behaviour of WE43 magnesium alloy coated by SiC film. <i>Applied Surface Science</i> , 2012 , 258, 3074-3081	6.7	58
244	In vitro corrosion and biocompatibility study of phytic acid modified WE43 magnesium alloy. <i>Applied Surface Science</i> , 2012 , 258, 3420-3427	6.7	86
243	Retardation of surface corrosion of biodegradable magnesium-based materials by aluminum ion implantation. <i>Applied Surface Science</i> , 2012 , 258, 7651-7657	6.7	51
242	Improvement of compressive strength and ductility in NiAlCr(Nb)/Dy alloy by rapid solidification and HIP treatment. <i>Intermetallics</i> , 2012 , 27, 14-20	3.5	46
241	Ti-Ge binary alloy system developed as potential dental materials. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2012 , 100, 2239-50	3.5	13
240	Surface Characterization and Cell Response of Binary Ti-Ag Alloys with CP Ti as Material Control. <i>Journal of Materials Science and Technology</i> , 2012 , 28, 779-784	9.1	27
239	Deformation mechanism of hot spinning of NiTi shape memory alloy tube based on FEM. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2012 , 27, 811-814	1	0
238	Comparative In Vitro Study of Ti-12V-9Sn Shape Memory Alloy with C.P. Ti and Ti-12V Alloy for Potential Biomedical Application. <i>Journal of Materials Engineering and Performance</i> , 2012 , 21, 2695-2700	1.6	4
237	Phase Transformation and Magnetic Property of Ni-Mn-Ga Powders Prepared by Dry Ball Milling. <i>Journal of Materials Engineering and Performance</i> , 2012 , 21, 2530-2534	1.6	14
236	Martensitic Transformation and Shape Memory Effect of NiCoMnSn High Temperature Shape Memory Alloy. <i>Journal of Materials Engineering and Performance</i> , 2012 , 21, 2509-2514	1.6	10
235	Effect of Aging Treatment on Superelasticity of a Ti48.8Ni50.8V0.4 Alloy. <i>Journal of Materials Engineering and Performance</i> , 2012 , 21, 2566-2571	1.6	12
234	ProFile Vortex instruments after clinical use: a metallurgical properties study. <i>Journal of Endodontics</i> , 2012 , 38, 1613-7	4.7	28
233	New Kind of Titanium Alloys for Biomedical Application 2012 , 253-272		1

232	Effect of Sn addition on the corrosion behavior of Ti-Ta alloy. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2012 , 63, 259-263	1.6	16
231	Surface chemistry of bulk nanocrystalline pure iron and electrochemistry study in gas-flow physiological saline. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2012 , 100, 1404-10	3.5	14
230	Osteoblast response on Ti- and Zr-based bulk metallic glass surfaces after sand blasting modification. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2012 , 100, 1721-8	3.5	25
229	Effective inhibition of the early copper ion burst release with ultra-fine grained copper and single crystal copper for intrauterine device application. <i>Acta Biomaterialia</i> , 2012 , 8, 886-96	10.8	31
228	In vitro and in vivo studies on a Mg-Sr binary alloy system developed as a new kind of biodegradable metal. <i>Acta Biomaterialia</i> , 2012 , 8, 2360-74	10.8	296
227	Immobilizing natural macromolecule on PLGA electrospun nanofiber with surface entrapment and entrapment-graft techniques. <i>Colloids and Surfaces B: Biointerfaces</i> , 2012 , 94, 44-50	6	25
226	Magnesium Alloy Stent Expansion Behavior Simulated by Finite Element Method. <i>Applied Mechanics and Materials</i> , 2012 , 232, 697-700	0.3	
225	Comparative study on corrosion behaviour of pure Mg and WE43 alloy in static, stirring and flowing Hank's solution. <i>Corrosion Engineering Science and Technology</i> , 2012 , 47, 346-351	1.7	55
224	Effect of heat treatment on fatigue behaviour of biomedical NiTi alloy wires under ultrasonic conditions. <i>Materials Technology</i> , 2012 , 27, 8-10	2.1	1
223	Phase transition of NiMnGa alloy powders prepared by vibration ball milling. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 4563-4568	5.7	25
222	Bulk metallic glasses based on ytterbium and calcium. <i>Journal of Non-Crystalline Solids</i> , 2011 , 357, 1232-1234	3.9	15
221	Development of CaZn based glassy alloys as potential biodegradable bone graft substitute. <i>Journal of Non-Crystalline Solids</i> , 2011 , 357, 3830-3840	3.9	29
220	Metallurgical characterization of controlled memory wire nickel-titanium rotary instruments. <i>Journal of Endodontics</i> , 2011 , 37, 1566-71	4.7	111
219	Plasma-modified biomaterials for self-antimicrobial applications. <i>ACS Applied Materials & Interfaces</i> , 2011 , 3, 2851-60	9.5	59
218	Current Research Activities of Biomedical Mg Alloys in China 2011 , 397-399		
217	Mg Alloys Development and Surface Modification for Biomedical Application 2011 ,		2
216	Fabrication and characterization of elastomeric polyester/carbon nanotubes nanocomposites for biomedical application. <i>Journal of Nanoscience and Nanotechnology</i> , 2011 , 11, 3126-33	1.3	9
215	A mathematical model for describing the mechanical behaviour of root canal instruments. <i>International Endodontic Journal</i> , 2011 , 44, 72-6	5.4	22

214	A numerical method for predicting the bending fatigue life of NiTi and stainless steel root canal instruments. <i>International Endodontic Journal</i> , 2011 , 44, 357-61	5-4	51
213	Microstructure characteristics and compressive properties of NiAl-based multiphase alloy during heat treatments. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 528, 8324-8331	5-3	43
212	Effects of Nd on microstructures and properties of extruded Mg _{0.46} Zn _{0.46} Nd alloys for stent application. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2011 , 176, 1673-1678	3-1	39
211	In vitro study on equal channel angular pressing AZ31 magnesium alloy with and without back pressure. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2011 , 176, 1802-1806	3-1	40
210	In vitro degradation performance and biological response of a Mg ₉₂ Zn ₈ alloy. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2011 , 176, 1778-1784	3-1	100
209	A comprehensive biological evaluation of ceramic nanoparticles as wear debris. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2011 , 7, 975-82	6	18
208	Dependence of microstructure and thermal conductivity of EB-PVD thermal barrier coatings on the substrate rotation speed. <i>Physics Procedia</i> , 2011 , 18, 206-210		4
207	Fabrication, characterization and in vitro drug release behavior of electrospun PLGA/chitosan nanofibrous scaffold. <i>Materials Chemistry and Physics</i> , 2011 , 125, 606-611	4-4	115
206	Microstructure, precipitates and compressive properties of various holmium doped NiAl/Cr(Mo,Hf) eutectic alloys. <i>Materials & Design</i> , 2011 , 32, 4810-4817		51
205	Microstructure, martensitic transformation and superelasticity of Ti _{49.6} Ni _{45.1} Cu ₅ Cr _{0.3} shape memory alloy. <i>Materials Letters</i> , 2011 , 65, 74-77	3-3	15
204	In vitro investigation of Fe ₃₀ Mn ₆ Si shape memory alloy as potential biodegradable metallic material. <i>Materials Letters</i> , 2011 , 65, 540-543	3-3	116
203	Rapid degradation of biomedical magnesium induced by zinc ion implantation. <i>Materials Letters</i> , 2011 , 65, 661-663	3-3	40
202	Effect of graphite addition on martensitic transformation and damping behavior of NiTi shape memory alloy. <i>Materials Letters</i> , 2011 , 65, 1073-1075	3-3	11
201	In vivo degradation behavior of Ca-deficient hydroxyapatite coated Mg-Zn-Ca alloy for bone implant application. <i>Colloids and Surfaces B: Biointerfaces</i> , 2011 , 88, 254-9	6	92
200	Corrosion behavior of Ti-5Ag alloy with and without thermal oxidation in artificial saliva solution. <i>Dental Materials</i> , 2011 , 27, 214-20	5-7	28
199	Comparative study on corrosion resistance and in vitro biocompatibility of bulk nanocrystalline and microcrystalline biomedical 304 stainless steel. <i>Dental Materials</i> , 2011 , 27, 677-83	5-7	44
198	Formation mechanism of novel two-dimensional single crystalline dendritic copper plates in an aqueous environment. <i>Acta Materialia</i> , 2011 , 59, 7177-7188	8-4	6
197	Effect of aging on martensitic transformation behavior of Ti _{48.8} Ni _{50.8} V _{0.4} alloy. <i>Journal of Materials Science</i> , 2011 , 46, 6432-6436	4-3	8

196	Nanocomposites of poly(l-lactide) and surface modified magnesia nanoparticles: Fabrication, mechanical property and biodegradability. <i>Journal of Physics and Chemistry of Solids</i> , 2011 , 72, 111-116	3.9	27
195	Corrosion resistance and surface biocompatibility of a microarc oxidation coating on a Mg-Ca alloy. <i>Acta Biomaterialia</i> , 2011 , 7, 1880-9	10.8	305
194	Introduction of antibacterial function into biomedical TiNi shape memory alloy by the addition of element Ag. <i>Acta Biomaterialia</i> , 2011 , 7, 2758-67	10.8	119
193	A novel amperometric hydrogen peroxide biosensor based on immobilized Hb in Pluronic P123-nanographene platelets composite. <i>Colloids and Surfaces B: Biointerfaces</i> , 2011 , 84, 427-32	6	39
192	Cell responses and hemocompatibility of g-HA/PLA composites. <i>Science China Life Sciences</i> , 2011 , 54, 366-71	8.5	9
191	Effects of Sn and Zr on the Microstructure and Mechanical Properties of Ti-Ta-Based Shape Memory Alloys. <i>Journal of Materials Engineering and Performance</i> , 2011 , 20, 762-766	1.6	26
190	Properties of Porous TiNbZr Shape Memory Alloy Fabricated by Mechanical Alloying and Hot Isostatic Pressing. <i>Journal of Materials Engineering and Performance</i> , 2011 , 20, 783-786	1.6	16
189	Research activities of biomedical magnesium alloys in China. <i>Jom</i> , 2011 , 63, 105-108	2.1	20
188	Corrosion behavior of newly developed TiAgBe dental alloys in neutral saline solution. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2011 , 62, 766-770	1.6	12
187	Comparative Evaluation on the In Vitro Biological Performance of Ti45Al8.5Nb Intermetallic with Ti6Al4V and Ti6Al7Nb Alloys. <i>Advanced Engineering Materials</i> , 2011 , 13, B187-B193	3.5	2
186	In vitro study on Zr-based bulk metallic glasses as potential biomaterials. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2011 , 96, 34-46	3.5	40
185	Microstructure and characteristics of the metal-ceramic composite (MgCa-HA/TCP) fabricated by liquid metal infiltration. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2011 , 99, 127-34	3.5	37
184	The potential biohazards of nanosized wear particles at bone-prosthesis interface. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2011 , 6, 563-568	1.3	
183	In vitro and in vivo evaluation of SLA titanium surfaces with further alkali or hydrogen peroxide and heat treatment. <i>Biomedical Materials (Bristol)</i> , 2011 , 6, 025001	3.5	29
182	Assessing the shear band velocity in metallic glasses using a coupled thermo-mechanical model. <i>Philosophical Magazine Letters</i> , 2011 , 91, 705-712	1	12
181	Preparation and characterization of electrospun PLGA/gelatin nanofibers as a potential drug delivery system. <i>Colloids and Surfaces B: Biointerfaces</i> , 2011 , 84, 97-102	6	165
180	A novel amperometric hydrogen peroxide biosensor based on electrospun Hb-collagen composite. <i>Colloids and Surfaces B: Biointerfaces</i> , 2011 , 86, 140-5	6	31
179	Effects of alloying elements (Mn, Co, Al, W, Sn, B, C and S) on biodegradability and in vitro biocompatibility of pure iron. <i>Acta Biomaterialia</i> , 2011 , 7, 1407-20	10.8	239

178	Biodegradable CaMgZn bulk metallic glass for potential skeletal application. <i>Acta Biomaterialia</i> , 2011 , 7, 3196-208	10.8	109
177	Corrosion behavior of TiO ₂ films on MgZn alloy in simulated body fluid. <i>Applied Surface Science</i> , 2011 , 257, 4464-4467	6.7	19
176	Enhanced in vitro biocompatibility of ultrafine-grained titanium with hierarchical porous surface. <i>Applied Surface Science</i> , 2011 , 257, 5634-5640	6.7	52
175	In vitro degradation of AZ31 magnesium alloy coated with nano TiO ₂ film by sol-gel method. <i>Applied Surface Science</i> , 2011 , 257, 8772-8777	6.7	77
174	Enhanced in vitro biocompatibility of ultrafine-grained biomedical NiTi alloy with microporous surface. <i>Applied Surface Science</i> , 2011 , 257, 9086-9093	6.7	29
173	Relationship between osseointegration and superelastic biomechanics in porous NiTi scaffolds. <i>Biomaterials</i> , 2011 , 32, 330-8	15.6	86
172	Comparative study on the corrosion behavior of TiNb and TMA alloys for dental application in various artificial solutions. <i>Materials Science and Engineering C</i> , 2011 , 31, 702-711	8.3	44
171	Enhanced corrosion resistance and cellular behavior of ultrafine-grained biomedical NiTi alloy with a novel SrO/BiO ₂ /TiO ₂ sol-gel coating. <i>Applied Surface Science</i> , 2011 , 257, 5913-5918	6.7	37
170	Low temperature growth and properties of ZnO nanorod arrays. <i>Advances in Natural Sciences: Nanoscience and Nanotechnology</i> , 2011 , 2, 035006	1.6	9
169	In Vitro Structural Changes of Nano-Bacterial Cellulose Immersed in Phosphate Buffer Solution. <i>Journal of Biomimetics, Biomaterials, and Tissue Engineering</i> , 2011 , 10, 55-66		17
168	Synthesis and Characterization of ZnSe and ZnSe/ZnS Quantum Dots for Potential Biomedical Application. <i>Advanced Science Letters</i> , 2011 , 4, 1509-1513	0.1	3
167	Current Research Activities of Biomedical Magnesium Alloys in China 2011 , 399-399		
166	Correlation between corrosion performance and surface wettability in ZrTiCuNiBe bulk metallic glasses. <i>Applied Physics Letters</i> , 2010 , 96, 251909	3.4	29
165	EFFECT OF C ₂ H ₂ FLOW RATE ON THE DEPOSITION OF Ti-TiC-TiC/DLC GRADIENT NANO-COMPOSITE FILM ON NITi ALLOY. <i>International Journal of Modern Physics B</i> , 2010 , 24, 2357-2362 ^{1.1}		2
164	In vitro corrosion, cytotoxicity and hemocompatibility of bulk nanocrystalline pure iron. <i>Biomedical Materials (Bristol)</i> , 2010 , 5, 065015	3.5	78
163	Controlled synthesis and characterization of ZnSe quantum dots. <i>Journal of Nanoscience and Nanotechnology</i> , 2010 , 10, 7812-5	1.3	4
162	In vitro cytotoxicity and hemocompatibility studies of Ti-Nb, Ti-Nb-Zr and Ti-Nb-Hf biomedical shape memory alloys. <i>Biomedical Materials (Bristol)</i> , 2010 , 5, 044102	3.5	41
161	Time effect of martensitic transformation in Ni ₄₃ Co ₇ Mn ₄₁ Sn ₉ . <i>Intermetallics</i> , 2010 , 18, 188-192	3.5	24

160	Influence of cross-sectional design and dimension on mechanical behavior of nickel-titanium instruments under torsion and bending: a numerical analysis. <i>Journal of Endodontics</i> , 2010 , 36, 1394-8	4.7	68
159	The orientation dependence of transformation strain of NiTiCu polycrystalline alloy and its composite with epoxy resin. <i>Journal of Alloys and Compounds</i> , 2010 , 505, 680-684	5.7	16
158	ZnS nanorods with tripod-like and tetrapod-like legs. <i>Advances in Natural Sciences: Nanoscience and Nanotechnology</i> , 2010 , 1, 035005	1.6	5
157	Microstructure, biocorrosion and cytotoxicity evaluations of rapid solidified Mg-3Ca alloy ribbons as a biodegradable material. <i>Biomedical Materials (Bristol)</i> , 2010 , 5, 35013	3.5	20
156	In vitro degradation and cytotoxicity of Mg/Ca composites produced by powder metallurgy. <i>Acta Biomaterialia</i> , 2010 , 6, 1783-91	10.8	124
155	Carbon nanotube-hydroxyapatite-hemoglobin nanocomposites with high bioelectrocatalytic activity. <i>Bioelectrochemistry</i> , 2010 , 78, 124-9	5.6	30
154	Electrochemistry of bilirubin oxidase at carbon nanotubes. <i>Journal of Solid State Electrochemistry</i> , 2010 , 14, 249-254	2.6	16
153	A review on magnesium alloys as biodegradable materials. <i>Frontiers of Materials Science in China</i> , 2010 , 4, 111-115		369
152	Microstructure and corrosion properties of as sub-rapid solidification Mg-Zn-Y-Nd alloy in dynamic simulated body fluid for vascular stent application. <i>Journal of Materials Science: Materials in Medicine</i> , 2010 , 21, 2001-8	4.5	51
151	Corrosion and ion release behavior of ultra-fine grained bulk pure copper fabricated by ECAP in Hanks solution as potential biomaterial for contraception. <i>Materials Letters</i> , 2010 , 64, 524-527	3.3	33
150	In vitro corrosion and cytotoxicity on microcrystalline, nanocrystalline and amorphous NiTi alloy fabricated by high pressure torsion. <i>Materials Letters</i> , 2010 , 64, 983-986	3.3	40
149	Surface modification of Ca60Mg15Zn25 bulk metallic glass for slowing down its biodegradation rate in water solution. <i>Materials Letters</i> , 2010 , 64, 1462-1464	3.3	18
148	Effect of pre-strain on martensitic transformation of Ni43Mn43Co7Sn7 high- temperature shape memory alloy. <i>Materials Letters</i> , 2010 , 64, 1879-1882	3.3	13
147	Degradation and cytotoxicity of lotus-type porous pure magnesium as potential tissue engineering scaffold material. <i>Materials Letters</i> , 2010 , 64, 1871-1874	3.3	87
146	A study of TaC1% coatings deposited on biomedical 316L stainless steel by radio-frequency magnetron sputtering. <i>Applied Surface Science</i> , 2010 , 257, 696-703	6.7	17
145	Electrospinning of PLGA/gelatin randomly-oriented and aligned nanofibers as potential scaffold in tissue engineering. <i>Materials Science and Engineering C</i> , 2010 , 30, 1204-1210	8.3	289
144	Microstructure, mechanical property, bio-corrosion and cytotoxicity evaluations of Mg/HA composites. <i>Materials Science and Engineering C</i> , 2010 , 30, 827-832	8.3	127
143	Fabrication and characterization of three-dimensional nanofiber membrane of PCL/MWCNTs by electrospinning. <i>Materials Science and Engineering C</i> , 2010 , 30, 1014-1021	8.3	168

142	Preparation and characterization of TaC _x N _{1-x} coatings on biomedical 316L stainless steel. <i>Surface and Coatings Technology</i> , 2010 , 204, 2519-2526	4.4	16
141	Corrosion fatigue behaviors of two biomedical Mg alloys - AZ91D and WE43 - In simulated body fluid. <i>Acta Biomaterialia</i> , 2010 , 6, 4605-13	10.8	238
140	Corrosion of, and cellular responses to Mg-Zn-Ca bulk metallic glasses. <i>Biomaterials</i> , 2010 , 31, 1093-103	15.6	316
139	A glucose/O ₂ biofuel cell base on nanographene platelet-modified electrodes. <i>Electrochemistry Communications</i> , 2010 , 12, 869-871	5.1	48
138	Fatigue Behavior of Ni-Ti Alloy Endodontic Files under Ultrasonic Unconstrained Condition. <i>Key Engineering Materials</i> , 2009 , 417-418, 77-80	0.4	
137	In Vivo Biocompatibility Studies of Nano TiO ₂ Materials. <i>Advanced Materials Research</i> , 2009 , 79-82, 389-393	3.2	16
136	IN VITRO AND IN VIVO BIOCOMPATIBILITY STUDIES OF ZNO NANOPARTICLES. <i>International Journal of Modern Physics B</i> , 2009 , 23, 1566-1571	1.1	30
135	TRANSFORMATION BEHAVIOR AND SHAPE MEMORY EFFECT OF A CoAl ALLOY. <i>International Journal of Modern Physics B</i> , 2009 , 23, 1931-1936	1.1	10
134	A Ni/Surface-Modified Diamond Composite Electroplating Coating on Superelastic NiTi Alloy as Potential Dental Bur Design. <i>Materials Science Forum</i> , 2009 , 610-613, 1339-1342	0.4	1
133	Electrochemical Stability of Orthopedic Porous NiTi Shape Memory Alloys Treated by Different Surface Modification Techniques. <i>Journal of the Electrochemical Society</i> , 2009 , 156, C187	3.9	9
132	Enhanced Bioactivity of Sandblasted and Acid-Etched Titanium Surfaces. <i>Advanced Materials Research</i> , 2009 , 79-82, 393-396	0.5	5
131	Reach on Impact Line of Hyperboloid Shallow Shell Surface Deflection. <i>Materials Science Forum</i> , 2009 , 628-629, 511-516	0.4	1
130	Numerical Study of Springback Laws in Metal Forming of Diaphragm of Automotive Horn. <i>Materials Science Forum</i> , 2009 , 628-629, 505-510	0.4	1
129	Corrosion behaviour and biocompatibility evaluation of low modulus Ti ₆₀ Nb shape memory alloy as potential biomaterial. <i>Materials Letters</i> , 2009 , 63, 1293-1295	3.3	46
128	Bending properties of epoxy resin matrix composites filled with Ni ₄₀ Mn ₆₀ Ca ferromagnetic shape memory alloy powders. <i>Materials Letters</i> , 2009 , 63, 1729-1732	3.3	24
127	Microstructure and martensitic transformation of Ti ₄₉ Ni _{51-x} Hf _x high temperature shape memory alloys. <i>Materials Letters</i> , 2009 , 63, 1869-1871	3.3	49
126	Effect of Ag on the corrosion behavior of Ti-Ag alloys in artificial saliva solutions. <i>Dental Materials</i> , 2009 , 25, 672-7	5.7	69
125	Effects of Hf content and immersion time on electrochemical behavior of biomedical Ti-22Nb-xHf alloys in 0.9% NaCl solution. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2009 , 60, 330-335	1.6	37

124	Electrochemical corrosion behavior of biomedical Ti ₂ Nb and Ti ₂ Nb ₃ Zr alloys in saline medium. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2009 , 60, 788-794	1.6	72
123	A study on alkaline heat treated Mg-Ca alloy for the control of the biocorrosion rate. <i>Acta Biomaterialia</i> , 2009 , 5, 2790-9	10.8	183
122	The application of poly (glycerol-sebacate) as biodegradable drug carrier. <i>Biomaterials</i> , 2009 , 30, 5209-14	5.6	82
121	Carbon nanotube-hydroxyapatite nanocomposite: a novel platform for glucose/O ₂ biofuel cell. <i>Biosensors and Bioelectronics</i> , 2009 , 25, 463-8	11.8	59
120	Calcification capacity of porous pHEMA-TiO ₂ composite hydrogels. <i>Journal of Materials Science: Materials in Medicine</i> , 2009 , 20, 2215-22	4.5	16
119	The influence of lactic on the properties of Poly (glycerol-sebacate-lactic acid). <i>Materials Science and Engineering C</i> , 2009 , 29, 178-182	8.3	31
118	Thermal degradation kinetics of g-HA/PLA composite. <i>Thermochimica Acta</i> , 2009 , 493, 90-95	2.9	42
117	Characterization and degradation behavior of AZ31 alloy surface modified by bone-like hydroxyapatite for implant applications. <i>Applied Surface Science</i> , 2009 , 255, 6433-6438	6.7	253
116	In vitro corrosion and biocompatibility of binary magnesium alloys. <i>Biomaterials</i> , 2009 , 30, 484-98	15.6	986
115	Corrosion performances of a Nickel-free Fe-based bulk metallic glass in simulated body fluids. <i>Electrochemistry Communications</i> , 2009 , 11, 2187-2190	5.1	42
114	Bioelectrochemistry of hemoglobin immobilized on a sodium alginate-multiwall carbon nanotubes composite film. <i>Biosensors and Bioelectronics</i> , 2009 , 24, 2352-7	11.8	133
113	Effect of ageing treatment on the deformation behaviour of Ti ₅₀ .9 at.% Ni. <i>Acta Materialia</i> , 2009 , 57, 4773-4781	8.4	52
112	Influence of artificial biological fluid composition on the biocorrosion of potential orthopedic Mg-Ca, AZ31, AZ91 alloys. <i>Biomedical Materials (Bristol)</i> , 2009 , 4, 065011	3.5	81
111	Phase transformation of NiTi shape memory alloy powders prepared by ball milling. <i>Journal of Alloys and Compounds</i> , 2009 , 477, 576-579	5.7	4
110	Effect of short-time direct current heating on phase transformation and superelasticity of Ti ₅₀ .8at.%Ni alloy. <i>Journal of Alloys and Compounds</i> , 2009 , 477, 764-767	5.7	16
109	Effect of Ce addition on the microstructure and damping properties of Cu ₄₀ Al ₁₀ Mn shape memory alloys. <i>Journal of Alloys and Compounds</i> , 2009 , 480, 608-611	5.7	34
108	Surface modification of an Mg-1Ca alloy to slow down its biocorrosion by chitosan. <i>Biomedical Materials (Bristol)</i> , 2009 , 4, 044109	3.5	68
107	Multi-pass spinning of thin-walled tubular part with longitudinal inner ribs. <i>Transactions of Nonferrous Metals Society of China</i> , 2009 , 19, 215-221	3.3	31

106	Alkali-heat treatment of a low modulus biomedical Ti-27Nb alloy. <i>Biomedical Materials (Bristol)</i> , 2009 , 4, 044108	3.5	7
105	The electrochemical behavior and surface analysis of Ti50Ni47.2Co2.8 alloy for orthodontic use. <i>Dental Materials</i> , 2008 , 24, 1207-11	5.7	18
104	The microstructure and shape memory effect of Ti16Al1Nb alloy. <i>Materials Letters</i> , 2008 , 62, 269-272	3.3	30
103	The influence of laser welding parameters on the microstructure and mechanical property of the as-joined NiTi alloy wires. <i>Materials Letters</i> , 2008 , 62, 2325-2328	3.3	63
102	Structural transition and atomic ordering of Ni49.8Mn28.5Ga21.7 ferromagnetic shape memory alloy powders prepared by ball milling. <i>Materials Letters</i> , 2008 , 62, 2851-2854	3.3	30
101	Ti-TiC-DLC gradient nano-composite film on a biomedical NiTi alloy. <i>Biomedical Materials (Bristol)</i> , 2008 , 3, 044103	3.5	15
100	A biomimetic hierarchical scaffold: natural growth of nanotitanates on three-dimensional microporous Ti-based metals. <i>Nano Letters</i> , 2008 , 8, 3803-8	11.5	110
99	Cyclic ageing of TiB0.8 at.% Ni alloy. <i>Intermetallics</i> , 2008 , 16, 394-398	3.5	20
98	Effect of ball milling and post-annealing on magnetic properties of Ni49.8Mn28.5Ga21.7 alloy powders. <i>Intermetallics</i> , 2008 , 16, 1279-1284	3.5	41
97	Direct electrochemistry and electrocatalysis of hemoglobin immobilized in TiO2 nanotube films. <i>Talanta</i> , 2008 , 74, 1414-9	6.2	86
96	In Vitro Biocompatibility Study of Nano TiO2 Materials. <i>Advanced Materials Research</i> , 2008 , 47-50, 1438-1441	3.5	27
95	The development of binary Mg-Ca alloys for use as biodegradable materials within bone. <i>Biomaterials</i> , 2008 , 29, 1329-44	15.6	1166
94	Properties of ZrZrC/DLC gradient films on TiNi alloy by the PIID technique combined with PECVD. <i>Surface and Coatings Technology</i> , 2008 , 202, 3011-3016	4.4	38
93	Shape Memory Effect and Superelastic Property of a Novel Ti-3Zr-2Sn-3Mo-15Nb Alloy. <i>Rare Metal Materials and Engineering</i> , 2008 , 37, 1-5		16
92	The electrochemical behavior and surface analysis of Ti49.6Ni45.1Cu5Cr0.3 alloy for orthodontic usage. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2008 , 86, 335-40	3.5	3
91	Preparation of poly(L-lactide) and its application in bioelectrochemistry. <i>Journal of Electroanalytical Chemistry</i> , 2008 , 621, 69-74	4.1	11
90	Enhanced corrosion resistance of Zr coating on biomedical TiNi alloy prepared by plasma immersion ion implantation and deposition. <i>Applied Surface Science</i> , 2008 , 255, 512-514	6.7	25
89	A comparative study on electrochemistry of laccase at two kinds of carbon nanotubes and its application for biofuel cell. <i>Chemical Physics Letters</i> , 2008 , 457, 381-385	2.5	62

88	An amperometric biosensor based on hemoglobin immobilized in poly(epsilon-caprolactone) film and its application. <i>Biosensors and Bioelectronics</i> , 2008 , 23, 1562-6	11.8	51
87	Effect of ageing treatment on the transformation behaviour of Ti50.9at.% Ni alloy. <i>Acta Materialia</i> , 2008 , 56, 736-745	8.4	125
86	Nanocomposites of poly(l-lactide) and surface-grafted TiO2 nanoparticles: Synthesis and characterization. <i>European Polymer Journal</i> , 2008 , 44, 2476-2481	5.2	91
85	Effect of surface modified hydroxyapatite on the tensile property improvement of HA/PLA composite. <i>Applied Surface Science</i> , 2008 , 255, 494-497	6.7	97
84	Adsorption and electrochemistry of hemoglobin on Chi-carbon nanotubes composite film. <i>Applied Surface Science</i> , 2008 , 255, 571-573	6.7	16
83	The characterization of mechanical and surface properties of poly (glycerol sebacate/lactic acid) during degradation in phosphate buffered saline. <i>Applied Surface Science</i> , 2008 , 255, 350-352	6.7	12
82	The characterization of fluorocarbon films on NiTi alloy by magnetron sputtering. <i>Applied Surface Science</i> , 2008 , 255, 432-434	6.7	20
81	Effects of Sn content on the microstructure, phase constitution and shape memory effect of TiNbSn alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 486, 146-151	5.3	68
80	Characterization of TiN, TiC and TiCN coatings on Ti50.6 at.% Ni alloy deposited by PIII and deposition technique. <i>Surface and Coatings Technology</i> , 2007 , 201, 4909-4912	4.4	73
79	Modification of biomedical NiTi shape memory alloy by TiC/Ti films using PIIID. <i>Surface and Coatings Technology</i> , 2007 , 201, 6857-6860	4.4	18
78	Surface characterization and mechanical property of TiN/Ti-coated NiTi alloy by PIIID. <i>Surface and Coatings Technology</i> , 2007 , 201, 6869-6873	4.4	46
77	Pore formation mechanism and characterization of porous NiTi shape memory alloys synthesized by capsule-free hot isostatic pressing. <i>Acta Materialia</i> , 2007 , 55, 3437-3451	8.4	79
76	Gelatin-functionalized carbon nanotubes for the bioelectrochemistry of hemoglobin. <i>Electrochemistry Communications</i> , 2007 , 9, 1619-1623	5.1	51
75	Phase transformation and microstructure of NiMnGa ferromagnetic shape memory alloy particles. <i>Physica Scripta</i> , 2007 , T129, 227-230	2.6	5
74	The electrochemical behavior of a Ti50Ni47Fe3 shape memory alloy. <i>Materials Letters</i> , 2006 , 60, 1646-1650	3.9	7
73	Effect of N2/Ar gas flow ratio on the deposition of TiN/Ti coatings on NiTi shape memory alloy by PIIID. <i>Materials Letters</i> , 2006 , 60, 2243-2247	3.3	14
72	Phase Constitution, Mechanical Property and Corrosion Resistance of the Ti-Nb Alloys. <i>Key Engineering Materials</i> , 2006 , 324-325, 655-658	0.4	4
71	A Study of ZrN/Zr Coatings Deposited on NiTi Alloy by PIIID Technique. <i>IEEE Transactions on Plasma Science</i> , 2006 , 34, 1105-1108	1.3	21

70	Comparative study of torsional and bending properties for six models of nickel-titanium root canal instruments with different cross-sections. <i>Journal of Endodontics</i> , 2006 , 32, 372-5	4.7	148
69	Surface characteristics and biological properties of paclitaxel-embedding PLGA coatings on TiNi alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006 , 438-440, 1119-1123	5.3	3
68	Surface characterization and electrochemical studies of biomedical NiTi alloy coated with TiN by PIIID. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006 , 438-440, 1146-1149	5.3	26
67	Phase transformation and precipitation in aged TiNiBi high-temperature shape memory alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006 , 438-440, 666-670	5.3	47
66	Corrosion behaviour of TiNbSn shape memory alloys in different simulated body solutions. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006 , 438-440, 891-895	5.3	77
65	Martensitic transformation and microstructure in NbRuBe shape memory alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006 , 438-440, 862-864	5.3	4
64	Interface structure and mobility in martensitic shape memory alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006 , 438-440, 900-904	5.3	2
63	Electrochemical corrosion behaviour of Ti ₄₄ Ni ₄₇ Nb ₉ alloy in simulated body fluids. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006 , 438-440, 504-508	5.3	15
62	Formation of TiN films on biomedical NiTi shape memory alloy by PIIID. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006 , 434, 99-104	5.3	13
61	The corrosion behavior and hemocompatibility of TiNi alloys coated with DLC by plasma based ion implantation. <i>Surface and Coatings Technology</i> , 2006 , 200, 4543-4548	4.4	28
60	Deposition of TiN coatings on shape memory NiTi alloy by plasma immersion ion implantation and deposition. <i>Thin Solid Films</i> , 2006 , 515, 1358-1363	2.2	24
59	Surface modification of NiTi alloy with tantalum to improve its biocompatibility and radiopacity. <i>Journal of Materials Science</i> , 2006 , 41, 4961-4964	4.3	63
58	Effect of aging on transformation behavior and shape memory effect of a CuAlNb high temperature shape memory alloy. <i>Journal of Materials Science</i> , 2006 , 41, 6165-6167	4.3	2
57	Influence of negative voltage on the structure and properties of DLC films deposited on NiTi alloys by PBI. <i>Journal of Materials Science</i> , 2006 , 41, 4179-4183	4.3	5
56	Study of deformation micromechanism in cold-deformed TiNi based alloys. <i>Intermetallics</i> , 2005 , 13, 281-288	3.8	8
55	Surface characterization and immersion tests of TiNi alloy coated with Ta. <i>Surface and Coatings Technology</i> , 2005 , 190, 428-433	4.4	24
54	Effect of Pt film thickness on PtSi formation and film surface morphology. <i>Surface and Coatings Technology</i> , 2005 , 198, 329-334	4.4	19
53	FeS ₂ (pyrite) electrodeposition thin films and study of growth mechanism. <i>Science in China Series D: Earth Sciences</i> , 2005 , 48, 601		5

52	Formation of pyrite (FeS ₂) thin nano-films by thermal-sulfurating electrodeposition films at different temperature. <i>Materials Letters</i> , 2005 , 59, 2398-2402	3.3	48
51	Effect of Fe addition on transformation temperatures and hardness of NiMnGa magnetic shape memory alloys. <i>Journal of Materials Science</i> , 2005 , 40, 219-221	4.3	30
50	The Studies on Biocompatibility of Self-Expanding NiTi Stent and Apoptosis of Smooth Muscle Cells after Stenting. <i>Key Engineering Materials</i> , 2005 , 288-289, 587-590	0.4	1
49	Pyrite (FeS ₂) films prepared via sol-gel hydrothermal method combined with electrophoretic deposition (EPD). <i>Materials Research Bulletin</i> , 2004 , 39, 1861-1868	5.1	31
48	Surface characteristics and corrosion resistance properties of TiNi shape memory alloy coated with Ta. <i>Surface and Coatings Technology</i> , 2004 , 186, 346-352	4.4	46
47	Two-way shape memory effect of a TiNiHf high temperature shape memory alloy. <i>Journal of Alloys and Compounds</i> , 2004 , 372, 180-186	5.7	56
46	Two-way shape memory effect induced by martensite deformation and stabilization of martensite in Ti ₃₆ Ni ₄₉ Hf ₁₅ high temperature shape memory alloy. <i>Materials Letters</i> , 2003 , 57, 4206-4211	3.3	19
45	Control of growth orientation of GaN nanowires. <i>Chemical Physics Letters</i> , 2002 , 359, 241-245	2.5	65
44	Microstructural Evolution and Deformation Micromechanism of Cold-Deformed TiNi-Based Alloys. <i>Materials Science Forum</i> , 2002 , 394-395, 185-192	0.4	2
43	Stress-induced martensitic transformation behavior of a TiNiHf high temperature shape memory alloy. <i>Materials Letters</i> , 2002 , 55, 111-115	3.3	60
42	Magnetic Field-Controlled Shape Memory in Ni _{52.5} Mn _{23.5} Ga ₂₄ Single Crystals. <i>Advanced Engineering Materials</i> , 2001 , 3, 330-333	3.5	3
41	A General Synthetic Route to III-V Compound Semiconductor Nanowires. <i>Advanced Materials</i> , 2001 , 13, 591-594	24	140
40	Effects of ambient pressure on silicon nanowire growth. <i>Chemical Physics Letters</i> , 2001 , 334, 229-232	2.5	23
39	HREM studies of twin boundary structure in deformed martensite in the cold-rolled TiNi shape memory alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2001 , 297, 185-196	5.3	14
38	Carbon monoxide-assisted growth of carbon nanotubes. <i>Chemical Physics Letters</i> , 2001 , 342, 259-264	2.5	19
37	Microstructures of gallium nitride nanowires synthesized by oxide-assisted method. <i>Chemical Physics Letters</i> , 2001 , 345, 377-380	2.5	92
36	Microstructure of stress-induced martensite in a TiNiHf high temperature shape memory alloy. <i>Scripta Materialia</i> , 2001 , 45, 1177-1182	5.6	36
35	Synthesis and microstructure of gallium phosphide nanowires. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2001 , 19, 1115		68

34	Oxide-assisted growth and optical characterization of gallium-arsenide nanowires. <i>Applied Physics Letters</i> , 2001 , 78, 3304-3306	3.4	74
33	Amorphous carbon nanowires investigated by near-edge-x-ray-absorption-fine-structures. <i>Applied Physics Letters</i> , 2001 , 79, 3773-3775	3.4	55
32	Effect of low dc magnetic field on the premartensitic phase transition temperature of ferromagnetic Ni ₂ MnGa single crystals. <i>Journal of Physics Condensed Matter</i> , 2001 , 13, 2607-2613	1.8	27
31	Magnetic properties and structural phase transformations of NiMnGa alloys. <i>IEEE Transactions on Magnetics</i> , 2001 , 37, 2715-2717	2	26
30	Synthesis of Large Areas of Highly Oriented, Very Long Silicon Nanowires. <i>Advanced Materials</i> , 2000 , 12, 1343-1345	24	175
29	Bulk-quantity GaN nanowires synthesized from hot filament chemical vapor deposition. <i>Chemical Physics Letters</i> , 2000 , 327, 263-270	2.5	117
28	The microstructure and linear superelasticity of cold-drawn TiNi alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2000 , 279, 25-35	5.3	54
27	Microstructural development inside the stress induced martensite variant in a TiNiNb shape memory alloy. <i>Acta Materialia</i> , 2000 , 48, 1409-1425	8.4	34
26	A simple route to annihilate defects in silicon nanowires. <i>Chemical Physics Letters</i> , 2000 , 328, 346-349	2.5	17
25	Laser Ablation Synthesis and Optical Characterization of Silicon Carbide Nanowires. <i>Journal of the American Ceramic Society</i> , 2000 , 83, 3228-3230	3.8	181
24	Effect of aging on the phase transformation and mechanical behavior of Ti ₃₆ Ni ₄₉ Hf ₁₅ high temperature shape memory alloy. <i>Scripta Materialia</i> , 2000 , 42, 341-348	5.6	83
23	Effect of deposition and treatment conditions on growth of nanometer PtSi heterostructure. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2000 , 18, 2406		4
22	Effect of internal stress and bias field on the transformation strain of the Heusler alloy Ni ₅₂ Mn _{24.4} Ga _{23.6} . <i>Journal of Physics Condensed Matter</i> , 2000 , 12, 6287-6293	1.8	16
21	Smallest diameter carbon nanotubes. <i>Applied Physics Letters</i> , 2000 , 77, 2831-2833	3.4	58
20	Stress-free two-way thermoelastic shape memory and field-enhanced strain in Ni ₅₂ Mn ₂₄ Ga ₂₄ single crystals. <i>Applied Physics Letters</i> , 2000 , 77, 3245-3247	3.4	67
19	HREM Studies on the Microstructure of Severely Cold-Rolled TiNi Alloy after Reverse Martensitic Transformation. <i>Materials Science Forum</i> , 2000 , 327-328, 159-162	0.4	3
18	Magnetic-field-induced strains and magnetic properties of Heusler alloy Ni ₅₂ Mn ₂₃ Ga ₂₅ . <i>Journal of Applied Physics</i> , 2000 , 87, 6292-6294	2.5	21
17	Shape memory properties of the Ti ₃₆ Ni ₄₉ Hf ₁₅ high temperature shape memory alloy. <i>Materials Letters</i> , 2000 , 45, 128-132	3.3	79

16	Giant magnetic-field-induced strains in Heusler alloy NiMnGa with modified composition. <i>Applied Physics Letters</i> , 1999 , 75, 2990-2992	3.4	159
15	Substructure and boundary structure of deformed 18R martensite in a CuZnAl alloy. <i>Acta Materialia</i> , 1999 , 47, 3497-3506	8.4	15
14	High resolution electron microscopy studies on the interface structure of deformed stress induced martensite variants in a TiNiNb shape memory alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1999 , 273-275, 271-274	5.3	10
13	The structure and mobility of the intervariant boundaries in 18R martensite in a CuZnAl alloy. <i>Acta Materialia</i> , 1999 , 47, 2125-2141	8.4	18
12	The tensile behavior of Ti36Ni49Hf15 high temperature shape memory alloy. <i>Scripta Materialia</i> , 1999 , 40, 1327-1331	5.6	75
11	HREM studies on the microstructure of severely cold-rolled TiNi alloy after reverse martensitic transformation. <i>Materials Letters</i> , 1999 , 41, 9-15	3.3	9
10	High resolution electron microscope observation of two kinds of intervariant boundaries in 18R martensite in a Cu-Zn-Al alloy. <i>Journal of Materials Science Letters</i> , 1998 , 17, 395-397		1
9	High-resolution Electron Microscope Observation of the Non-basal Planar Defects in 18R Martensite in a Cu-Zn-Al Alloy. <i>Journal of Materials Science Letters</i> , 1998 , 17, 1657-1659		2
8	HREM Study on the Intervariant Structure of Ti-Ni-Hf B19' Martensite. <i>Scripta Materialia</i> , 1998 , 38, 1249-1253	5.8	28
7	Characteristics of the A/D type twin boundary in 18R martensite in a CuZnAl alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1998 , 251, 150-156	5.3	4
6	Type II twins and their deformation characteristics in 18R martensite in a CuZnAl alloy. <i>Materials Letters</i> , 1998 , 34, 351-355	3.3	3
5	High-resolution electron microscopy study on the substructure of TiNiHf B19' Martensite. <i>Materials Letters</i> , 1998 , 36, 142-147	3.3	26
4	Multiscale vessel enhancement filtering. <i>Lecture Notes in Computer Science</i> , 1998 , 130-137	0.9	1286
3	TRPM7 kinase-mediated immunomodulation in macrophage plays a central role in magnesium ion-induced bone regeneration		1
2	Preparation and characterization of air sprayed silk fibroin/silica-based thermal-insulation coatings on catheters for cerebral hypothermia therapy. <i>Surface Innovations</i> , 1-12	1.9	0
1	Reversing Multidrug-Resistant Escherichia coli by Compromising Its BAM Biogenesis and Enzymatic Catalysis through Microwave Hyperthermia Therapy. <i>Advanced Functional Materials</i> , 2202887	15.6	1