

# Ke Yang

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/5347486/ke-yang-publications-by-year.pdf>

**Version:** 2024-04-27

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.

333  
papers

10,998  
citations

53  
h-index

89  
g-index

343  
ext. papers

13,485  
ext. citations

6  
avg, IF

6.65  
L-index

#	Paper	IF	Citations
333	Inhibition efficiency of 304-Cu stainless steel against oral bacterial biofilm.. <i>Journal of Applied Biomaterials and Functional Materials</i> , <b>2022</b> , 20, 22808000211065259	1.8	
332	Enhanced initial biodegradation resistance of the biomedical Mg-Cu alloy by surface nanomodification. <i>Journal of Magnesium and Alloys</i> , <b>2022</b> ,	8.8	1
331	Effect of Microstructure and Crystallographic Orientation Characteristics on Low Temperature Toughness and Fracture Behavior of Pipeline Steels. <i>Journal of Materials Research and Technology</i> , <b>2022</b> , 17, 3172-3172	5.5	0
330	Preliminary study on biocorrosion inhibition effect of Ti-5Cu alloy against marine bacterium <i>Pseudomonas aeruginosa</i> . <i>Applied Surface Science</i> , <b>2022</b> , 578, 151981	6.7	0
329	Novel Cu-bearing stainless steel: A promising food preservation material. <i>Journal of Materials Science and Technology</i> , <b>2022</b> , 113, 246-252	9.1	1
328	Enhancing mechanical property and corrosion resistance of Mg <sub>2</sub> Nd alloy wire by a combination of SPD techniques, extrusion and hot drawing. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2022</b> , 829, 142058	5.3	1
327	Study on mechanical behavior of Cu-bearing antibacterial titanium alloy implant. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2022</b> , 125, 104926	4.1	0
326	Biosafety and biodegradation studies of AZ31B magnesium alloy carotid artery stent in vitro and in vivo. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2022</b> , 110, 239-248	3.5	0
325	Anti-infection mechanism of a novel dental implant made of titanium-copper (TiCu) alloy and its mechanism associated with oral microbiology. <i>Bioactive Materials</i> , <b>2022</b> , 8, 381-395	16.7	5
324	Design and Development of Antibacterial Metal Implants. <i>Design Science and Innovation</i> , <b>2022</b> , 163-175	0.2	0
323	Promoting osteointegration effect of Cu-alloyed titanium in ovariectomized rats.. <i>International Journal of Energy Production and Management</i> , <b>2022</b> , 9, rbac011	5.3	2
322	Mitigation of microbial corrosion by Cu addition to X65 pipeline steel by <i>Pseudomonas aeruginosa</i> MCCC 1A00099.. <i>Archives of Microbiology</i> , <b>2022</b> , 204, 299	3	0
321	Fabrication of ultrafine-grained Ti-15Zr-xCu alloys through martensite decompositions under thermomechanical coupling conditions. <i>Journal of Materials Science and Technology</i> , <b>2022</b> , 127, 19-28	9.1	0
320	Study of the Osteoimmunomodulatory Properties of Curcumin-Modified Copper-Bearing Titanium. <i>Molecules</i> , <b>2022</b> , 27, 3205	4.8	
319	Study of TiCuN/ZrN multilayer coatings with adjustable combination properties deposited on TiCu alloy. <i>Vacuum</i> , <b>2022</b> , 111202	3.7	
318	Inhibition effect on microbiologically influenced corrosion of Ti-6Al-4V-5Cu alloy against marine bacterium <i>Pseudomonas aeruginosa</i> . <i>Journal of Materials Science and Technology</i> , <b>2021</b> , 109, 282-282	9.1	1
317	The effect of high temperature aging on the corrosion resistance, mechanical property and antibacterial activity of Cu-2205 DSS.. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2021</b> , 211, 112309	6	0

316	Corrosion resistance of Cu-bearing 316L stainless steel tuned by various passivation potentials. <i>Surface and Interface Analysis</i> , <b>2021</b> , 53, 592-602	1.5	0
315	Molecular mechanisms of osteogenesis and antibacterial activity of Cu-bearing Ti alloy in a bone defect model with infection. <i>Journal of Orthopaedic Translation</i> , <b>2021</b> , 27, 77-89	4.2	9
314	Biodegradation behaviour of hydroxyapatite-containing self-sealing micro-arc-oxidation coating on pure Mg. <i>Surface Engineering</i> , <b>2021</b> , 37, 942-952	2.6	4
313	Microstructural effects on mechanical properties and degradation behavior of MgCu alloy. <i>Materialia</i> , <b>2021</b> , 16, 101089	3.2	3
312	Anticancer Effect of Biodegradable Magnesium on Hepatobiliary Carcinoma: An and Study. <i>ACS Biomaterials Science and Engineering</i> , <b>2021</b> , 7, 2774-2782	5.5	0
311	Antibacterial mechanism of Cu-bearing 430 ferritic stainless steel. <i>Rare Metals</i> , <b>2021</b> , 1-11	5.5	0
310	Effect of tempering temperature on the microstructure, corrosion resistance, and antibacterial properties of Cu-bearing martensitic stainless steel. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , <b>2021</b> , 72, 1668	1.6	1
309	Passivation potential regulating corrosion resistance and antibacterial property of 316L-Cu stainless steel in different simulated body fluids. <i>Materials Technology</i> , <b>2021</b> , 36, 118-130	2.1	3
308	Fabrication of biodegradable MgXCu(X=0, 0.1, 0.4, 0.7) coating on Ti6Al4V alloy with enhanced antibacterial property. <i>Materials Technology</i> , <b>2021</b> , 36, 179-188	2.1	5
307	Improved corrosion resistance and biofilm inhibition ability of copper-bearing 304 stainless steel against oral microaerobic Streptococcus mutans. <i>Journal of Materials Science and Technology</i> , <b>2021</b> , 66, 112-120	9.1	6
306	Microstructure, mechanical and corrosion properties of MgZnNd alloy with different accumulative area reduction after room-temperature drawing. <i>Rare Metals</i> , <b>2021</b> , 40, 897-907	5.5	2
305	Investigation of microbial corrosion inhibition of Cu-bearing 316L stainless steel in the presence of acid producing bacterium Acidithiobacillus caldus SM-1. <i>Journal of Materials Science and Technology</i> , <b>2021</b> , 64, 176-186	9.1	7
304	Antibacterial behavior and related mechanisms of martensitic Cu-bearing stainless steel evaluated by a mixed infection model of Escherichia coli and Staphylococcus aureus in vitro. <i>Journal of Materials Science and Technology</i> , <b>2021</b> , 62, 139-147	9.1	7
303	Biological applications of copper-containing materials. <i>Bioactive Materials</i> , <b>2021</b> , 6, 916-927	16.7	21
302	Antibacterial effect of a copper-containing titanium alloy against implant-associated infection induced by methicillin-resistant Staphylococcus aureus. <i>Acta Biomaterialia</i> , <b>2021</b> , 119, 472-484	10.8	23
301	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> , <b>2021</b> , 121, 682-694	10.8	6
300	Microstructural Evolution and Biodegradation Response of MgZn0.5Nd Alloy During Tensile and Compressive Deformation. <i>Acta Metallurgica Sinica (English Letters)</i> , <b>2021</b> , 34, 834-844	2.5	2
299	Interfacial segregation and precipitation behavior of Cu-rich precipitates in Cu-bearing 316LN stainless steel after aging at different temperatures. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2021</b> , 805, 140571	5.3	5

298	Understanding main factors controlling high cycle fatigue crack initiation and propagation of high strength maraging stainless steels with Ti addition. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2021</b> , 805, 140589	5.3	5
297	One-step electrodeposition synthesis of bisphosphonate loaded magnesium implant: A strategy to modulate drug release for osteoporotic fracture healing. <i>Journal of Materials Science and Technology</i> , <b>2021</b> , 78, 92-99	9.1	4
296	The effect of different coatings on bone response and degradation behavior of porous magnesium-strontium devices in segmental defect regeneration. <i>Bioactive Materials</i> , <b>2021</b> , 6, 1765-1776	16.7	11
295	Cytotoxicity of Ti <sub>6</sub> Al <sub>4</sub> V <sub>2</sub> Cu Alloy to MC3T3-E1 Cells. <i>Acta Metallurgica Sinica (English Letters)</i> , <b>2021</b> , 34, 694-700	2.5	1
294	Ce addition enhances the microbially induced corrosion resistance of Cu-bearing 2205 duplex stainless steel in presence of sulfate reducing bacteria. <i>Corrosion Science</i> , <b>2021</b> , 179, 109141	6.8	8
293	New strategy to delay food spoilage: Application of new food contact material with antibacterial function. <i>Journal of Materials Science and Technology</i> , <b>2021</b> , 70, 59-66	9.1	10
292	Stability of passive film and antibacterial durability of Cu-bearing L605 alloy in simulated physiological solutions. <i>Rare Metals</i> , <b>2021</b> , 40, 1126-1133	5.5	3
291	Oxidation behavior of ferritic/martensitic steels in flowing supercritical water. <i>Journal of Materials Science and Technology</i> , <b>2021</b> , 64, 114-125	9.1	5
290	Surface Roughness of Cu-Bearing Stainless Steel Affects Its Contact-Killing Efficiency by Mediating the Interfacial Interaction with Bacteria. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 2303-2315	9.5	9
289	Study on W-rich M <sub>3</sub> B <sub>2</sub> borides in a 9Cr <sub>3</sub> W <sub>3</sub> CoB heat-resistant steel. <i>Journal of Materials Research and Technology</i> , <b>2021</b> , 10, 594-604	5.5	3
288	Strength, strain capacity and toughness of five dual-phase pipeline steels. <i>Journal of Iron and Steel Research International</i> , <b>2021</b> , 28, 752-761	1.2	0
287	Preliminary study of adsorption behavior of bovine serum albumin (BSA) protein and its effect on antibacterial and corrosion property of Ti-3Cu alloy. <i>Journal of Materials Science and Technology</i> , <b>2021</b> , 80, 117-127	9.1	6
286	Transfer from M <sub>3</sub> B <sub>2</sub> boride to BN nitride in 9Cr <sub>3</sub> W <sub>3</sub> CoB martensitic heat-resistant steel. <i>Journal of Materials Research and Technology</i> , <b>2021</b> , 13, 513-523	5.5	2
285	Improvement of mechanical property and corrosion resistance of Mg-Zn-Nd alloy by bi-direction drawing. <i>Journal of Materials Science and Technology</i> , <b>2021</b> , 81, 88-96	9.1	1
284	Effect of Cu on the passivity of Ti <sub>x</sub> Cu (x = 0, 3 and 5 wt%) alloy in phosphate-buffered saline solution within the framework of PDM-II. <i>Electrochimica Acta</i> , <b>2021</b> , 386, 138466	6.7	7
283	On Laves phase in a 9Cr <sub>3</sub> W <sub>3</sub> CoB martensitic heat resistant steel when aged at high temperatures. <i>Journal of Materials Science and Technology</i> , <b>2021</b> , 85, 129-140	9.1	3
282	Study the existing form of copper (p-type oxide/segregation) and its release mechanism from the passive film of Ti-7Cu alloy. <i>Corrosion Science</i> , <b>2021</b> , 190, 109693	6.8	2
281	Biodegradable magnesium pins enhanced the healing of transverse patellar fracture in rabbits. <i>Bioactive Materials</i> , <b>2021</b> , 6, 4176-4185	16.7	5

280	Biocompatibility and Cu ions release kinetics of copper-bearing titanium alloys. <i>Journal of Materials Science and Technology</i> , <b>2021</b> , 95, 237-248	9.1	1
279	Anticoagulation and antibacterial functional coating on vascular implant interventional medical catheter. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2020</b> , 108, 2868-2877	3.5	3
278	Biofunctional magnesium coated Ti6Al4V scaffold enhances osteogenesis and angiogenesis and for orthopedic application. <i>Bioactive Materials</i> , <b>2020</b> , 5, 680-693	16.7	38
277	Effects of microstructure on the torsional properties of biodegradable WE43 Mg alloy. <i>Journal of Materials Science and Technology</i> , <b>2020</b> , 51, 102-110	9.1	12
276	Investigation on Corrosion Resistance of Welded Cu-Bearing 304L Stainless Steel Against <i>Pseudomonas aeruginosa</i> . <i>Frontiers in Materials</i> , <b>2020</b> , 7,	4	1
275	Study on Microbiologically Influenced Corrosion Resistance of Stainless Steels With Weld Seams. <i>Frontiers in Materials</i> , <b>2020</b> , 7,	4	2
274	Rough surface of copper-bearing titanium alloy with multifunctions of osteogenic ability and antibacterial activity. <i>Journal of Materials Science and Technology</i> , <b>2020</b> , 48, 130-139	9.1	19
273	In vitro degradation and biocompatibility evaluation of fully biobased thermoplastic elastomers consisting of poly(Emyrcene) and poly(l-lactide) as stent coating. <i>Polymer Degradation and Stability</i> , <b>2020</b> , 179, 109254	4.7	7
272	Silicon enhances high temperature oxidation resistance of SIMP steel at 700 °C. <i>Corrosion Science</i> , <b>2020</b> , 167, 108519	6.8	17
271	High nitrogen stainless steel drug-eluting stent - Assessment of pharmacokinetics and preclinical safety. <i>Bioactive Materials</i> , <b>2020</b> , 5, 779-786	16.7	4
270	A Ca-deficientca-deficient hydroxyapatite (CDHA)/MgF bi-layer coating with unique nano-scale topography on biodegradable high-purity Mg. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2020</b> , 190, 110911	6	4
269	Effects of combined chemical design (Cu addition) and topographical modification (SLA) of Ti-Cu/SLA for promoting osteogenic, angiogenic and antibacterial activities. <i>Journal of Materials Science and Technology</i> , <b>2020</b> , 47, 202-215	9.1	22
268	An induced corrosion inhibition of X80 steel by using marine bacterium <i>Marinobacter salsuginis</i> . <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2020</b> , 189, 110858	6	14
267	A novel laminated metal composite with superior interfacial bonding composed of ultrahigh-strength maraging steel and 316L stainless steel. <i>Journal of Iron and Steel Research International</i> , <b>2020</b> , 27, 433-439	1.2	3
266	Preliminary study of microstructure, mechanical properties and corrosion resistance of antibacterial Ti-15Zr-xCu alloy for dental application. <i>Journal of Materials Science and Technology</i> , <b>2020</b> , 50, 31-43	9.1	19
265	Facile fabrication of the zoledronate-incorporated coating on magnesium alloy for orthopaedic implants. <i>Journal of Orthopaedic Translation</i> , <b>2020</b> , 22, 2-6	4.2	8
264	In vitro insights into the role of copper ions released from selective laser melted CoCrW-xCu alloys in the potential attenuation of inflammation and osteoclastogenesis. <i>Journal of Materials Science and Technology</i> , <b>2020</b> , 41, 56-67	9.1	5
263	Enhancing General Corrosion Resistance of Biomedical High Nitrogen Nickel-Free Stainless Steel by Nitric Acid Passivation. <i>Acta Metallurgica Sinica (English Letters)</i> , <b>2020</b> , 33, 307-312	2.5	1

262	Study of TiCu/TiCuN multilayer films with antibacterial activity. <i>Materials Technology</i> , <b>2020</b> , 35, 475-482	2.1	3
261	The role of prismatic slip dependent dynamic recrystallization in the fabrication of a submicrocrystalline Ti-Cu alloy with high thermostability. <i>Materials and Design</i> , <b>2020</b> , 188, 108475	8.1	2
260	Optimising the torsional properties and corrosion resistance of biodegradable WE43 Mg alloy by ECAP and subsequent ageing. <i>Materials Technology</i> , <b>2020</b> , 35, 402-410	2.1	6
259	Contact Killing of Cu-Bearing Stainless Steel Based on Charge Transfer Caused by the Microdomain Potential Difference. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 361-372	9.5	24
258	Study on the antibacterial mechanism of Cu-bearing titanium alloy in the view of materials science. <i>Materials Technology</i> , <b>2020</b> , 35, 11-20	2.1	7
257	Influence of Strontium phosphate Coating on the Degradation of Physical Vapor Deposition Sprayed Mg Coating on Ti6Al4V Substrate to Promote Bone Tissue Healing. <i>Frontiers in Materials</i> , <b>2020</b> , 7,	4	2
256	An Antibacterial Strategy of Mg-Cu Bone Grafting in Infection-Mediated Periodontics. <i>BioMed Research International</i> , <b>2020</b> , 2020, 7289208	3	2
255	Effects of ECAP extrusion on the mechanical and biodegradable properties of an extruded Mg-1.5Zn-0.5Y-0.5Zr alloy. <i>Materials Technology</i> , <b>2020</b> , 1-8	2.1	3
254	Influence of microstructure modification on corrosion resistance of friction stir processing biodegradable Mg-Zn-Nd alloy. <i>Materials Technology</i> , <b>2020</b> , 1-6	2.1	1
253	Antibacterial activity of copper-bearing 316L stainless steel for the prevention of implant-related infection. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2020</b> , 108, 484-495	3.5	20
252	Enhancement of strength and ductility by Cu-rich precipitation in Cu-bearing 304L austenitic stainless steel. <i>Materials Letters</i> , <b>2020</b> , 272, 127815	3.3	2
251	Copper-Containing Alloy as Immunoregulatory Material in Bone Regeneration via Mitochondrial Oxidative Stress. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2020</b> , 8, 620629	5.8	2
250	Enhancing Pitting Corrosion Resistance of Severely Cold-Worked High Nitrogen Austenitic Stainless Steel by Nitric Acid Passivation. <i>Journal of the Electrochemical Society</i> , <b>2019</b> , 166, C365-C374	3.9	7
249	Precipitate evolution and strengthening behavior during aging process in a 2.5 GPa grade maraging steel. <i>Acta Materialia</i> , <b>2019</b> , 179, 296-307	8.4	41
248	Regulation of osteogenesis and osteoclastogenesis by zoledronic acid loaded on biodegradable magnesium-strontium alloy. <i>Scientific Reports</i> , <b>2019</b> , 9, 933	4.9	18
247	Improvement of biodegradable and antibacterial properties by solution treatment and micro-arc oxidation (MAO) of a magnesium alloy with a trace of copper. <i>Corrosion Science</i> , <b>2019</b> , 156, 125-138	6.8	39
246	In vitro study on cytocompatibility and osteogenesis ability of Ti-Cu alloy. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2019</b> , 30, 75	4.5	23
245	Biofilm inhibition and corrosion resistance of 2205-Cu duplex stainless steel against acid producing bacterium <i>Acetobacter aceti</i> . <i>Journal of Materials Science and Technology</i> , <b>2019</b> , 35, 2494-2502	9.1	21



244	Optimization of mechanical property, antibacterial property and corrosion resistance of Ti-Cu alloy for dental implant. <i>Journal of Materials Science and Technology</i> , <b>2019</b> , 35, 2336-2344	9.1	41
243	In vitro and in vivo characterization of novel calcium phosphate and magnesium (CaP-Mg) bilayer coated titanium for implantation. <i>Surface and Coatings Technology</i> , <b>2019</b> , 374, 784-796	4.4	7
242	Hot Deformation Behavior of an Ultra-High-Strength Fe-Ni-Co-Based Maraging Steel. <i>Acta Metallurgica Sinica (English Letters)</i> , <b>2019</b> , 32, 1161-1172	2.5	5
241	Enhancing general corrosion resistance of biomedical high nitrogen nickel-free stainless steel by water treatment. <i>Materials Letters</i> , <b>2019</b> , 251, 196-200	3.3	4
240	Osteogenesis stimulation by copper-containing 316L stainless steel via activation of akt cell signaling pathway and Runx2 upregulation. <i>Journal of Materials Science and Technology</i> , <b>2019</b> , 35, 2727-2733	9.1	11
239	Study on a biodegradable antibacterial Fe-Mn-C-Cu alloy as urinary implant material. <i>Materials Science and Engineering C</i> , <b>2019</b> , 103, 109718	8.3	13
238	Optimization of annealing treatment and comprehensive properties of Cu-containing Ti6Al4V-xCu alloys. <i>Journal of Materials Science and Technology</i> , <b>2019</b> , 35, 2121-2131	9.1	23
237	Surface degradation-enabled osseointegrative, angiogenic and antiinfective properties of magnesium-modified acrylic bone cement. <i>Journal of Orthopaedic Translation</i> , <b>2019</b> , 17, 121-132	4.2	13
236	Mg-based absorbable membrane for guided bone regeneration (GBR): a pilot study. <i>Rare Metals</i> , <b>2019</b> , 38, 577-587	5.5	10
235	Corrosion Inhibition of X80 Steel in Simulated Marine Environment with <i>Marinobacter aquaeolei</i> . <i>Acta Metallurgica Sinica (English Letters)</i> , <b>2019</b> , 32, 1373-1384	2.5	8
234	Biodegradation Behavior of Coated As-Extruded Mg-Bi Alloy in Simulated Body Fluid. <i>Acta Metallurgica Sinica (English Letters)</i> , <b>2019</b> , 32, 1195-1206	2.5	18
233	Microstructure, mechanical and biodegradable properties of a Mg <sub>2</sub> Zn <sub>1</sub> Gd <sub>0.5</sub> Zr alloy with different solution treatments. <i>Rare Metals</i> , <b>2019</b> , 38, 532-542	5.5	19
232	In vitro degradation and antibacterial property of a copper-containing micro-arc oxidation coating on Mg-2Zn-1Gd-0.5Zr alloy. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2019</b> , 179, 77-86	6	30
231	Antibacterial durability and biocompatibility of antibacterial-passivated 316L stainless steel in simulated physiological environment. <i>Materials Science and Engineering C</i> , <b>2019</b> , 100, 396-410	8.3	26
230	Ultra-high cycle fatigue behavior of a novel 1.9 GPa grade super-high-strength maraging stainless steel. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2019</b> , 755, 50-56	5.3	9
229	Salvia officinalis extract mitigates the microbiologically influenced corrosion of 304L stainless steel by <i>Pseudomonas aeruginosa</i> biofilm. <i>Bioelectrochemistry</i> , <b>2019</b> , 128, 193-203	5.6	30
228	Effects of solution treatment on mechanical properties and degradation of Mg-2Zn-0.5Nd-0.5Zr alloy. <i>Materials Technology</i> , <b>2019</b> , 34, 592-601	2.1	7
227	Effect of deformation on precipitation hardening behavior of a maraging steel in the aging process. <i>Materials Characterization</i> , <b>2019</b> , 155, 109827	3.9	9

226	Hot Deformation Behavior and Processing Map of a Cu-Bearing 2205 Duplex Stainless Steel. <i>Acta Metallurgica Sinica (English Letters)</i> , <b>2019</b> , 32, 1537-1548	2.5	2
225	In vitro and in vivo studies on the biodegradable behavior and bone response of Mg <sub>69</sub> Zn <sub>27</sub> Ca <sub>4</sub> metal glass for treatment of bone defect. <i>Journal of Materials Science and Technology</i> , <b>2019</b> , 35, 2254-2262	9.1	3
224	In vivo research on Cu-bearing ureteral stent. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2019</b> , 30, 83	4.5	3
223	Microstructures, Corrosion and Mechanical Properties of Mg <sub>51</sub> Bi Alloys as Biodegradable Implant Materials. <i>Minerals, Metals and Materials Series</i> , <b>2019</b> , 151-157	0.3	
222	A novel polymer critical re-melting treatment for improving corrosion resistance of magnesium alloy stent. <i>Journal of Materials Science and Technology</i> , <b>2019</b> , 35, 19-22	9.1	10
221	Examining Cu content contribution to changes in oxide layer formed on selective-laser-melted CoCrW alloys. <i>Applied Surface Science</i> , <b>2019</b> , 464, 262-272	6.7	11
220	Antibacterial TiCu/TiCuN Multilayer Films with Good Corrosion Resistance Deposited by Axial Magnetic Field-Enhanced Arc Ion Plating. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 125-136	9.5	21
219	Hot Deformation Behavior of a New Nuclear Use Reduced Activation Ferritic/Martensitic Steel. <i>Acta Metallurgica Sinica (English Letters)</i> , <b>2019</b> , 32, 825-834	2.5	13
218	Effect of minor content of Gd on the mechanical and degradable properties of as-cast Mg-2Zn-xGd-0.5Zr alloys. <i>Journal of Materials Science and Technology</i> , <b>2019</b> , 35, 503-511	9.1	44
217	Effect of grain refinement and crystallographic texture produced by friction stir processing on the biodegradation behavior of a Mg-Nd-Zn alloy. <i>Journal of Materials Science and Technology</i> , <b>2019</b> , 35, 777-783	9.1	49
216	Microbiologically influenced corrosion of titanium caused by aerobic marine bacterium <i>Pseudomonas aeruginosa</i> . <i>Journal of Materials Science and Technology</i> , <b>2019</b> , 35, 216-222	9.1	45
215	Effect of copper content on the corrosion behaviors and antibacterial properties of binary Mg <sub>50</sub> Ti alloys. <i>Materials Technology</i> , <b>2018</b> , 33, 145-152	2.1	20
214	Biofunctional Mg coating on PEEK for improving bioactivity. <i>Bioactive Materials</i> , <b>2018</b> , 3, 139-143	16.7	25
213	Effect of Cu on microstructure, mechanical properties, corrosion resistance and cytotoxicity of CoCrW alloy fabricated by selective laser melting. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2018</b> , 81, 130-141	4.1	20
212	Dissolution and repair of passive film on Cu-bearing 304L stainless steels immersed in H <sub>2</sub> SO <sub>4</sub> solution. <i>Journal of Materials Science and Technology</i> , <b>2018</b> , 34, 2149-2159	9.1	19
211	Influence of hybrid extrusion and solution treatment on the microstructure and degradation behavior of Mg-0.1Cu alloy. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2018</b> , 229, 105-117	3.1	22
210	Enhanced resistance of 2205 Cu-bearing duplex stainless steel towards microbiologically influenced corrosion by marine aerobic <i>Pseudomonas aeruginosa</i> biofilms. <i>Journal of Materials Science and Technology</i> , <b>2018</b> , 34, 1325-1336	9.1	62
209	Corrosion of antibacterial Cu-bearing 316L stainless steels in the presence of sulfate reducing bacteria. <i>Corrosion Science</i> , <b>2018</b> , 132, 46-55	6.8	58



208	Hot deformation behavior of Cu-bearing antibacterial titanium alloy. <i>Journal of Materials Science and Technology</i> , <b>2018</b> , 34, 1867-1875	9.1	8
207	Role of Co in formation of Ni-Ti clusters in maraging stainless steel. <i>Journal of Materials Science and Technology</i> , <b>2018</b> , 34, 1671-1675	9.1	17
206	In vitro and in vivo studies of anti-bacterial copper-bearing titanium alloy for dental application. <i>Dental Materials</i> , <b>2018</b> , 34, 1112-1126	5.7	87
205	In vitro and in vivo studies on degradation and bone response of Mg-Sr alloy for treatment of bone defect. <i>Materials Technology</i> , <b>2018</b> , 33, 387-397	2.1	12
204	Antimicrobial Cu-bearing 2205 duplex stainless steel against MIC by nitrate reducing <i>Pseudomonas aeruginosa</i> biofilm. <i>International Biodeterioration and Biodegradation</i> , <b>2018</b> , 132, 132-138	4.8	30
203	Effect of cold deformation on corrosion fatigue behavior of nickel-free high nitrogen austenitic stainless steel for coronary stent application. <i>Journal of Materials Science and Technology</i> , <b>2018</b> , 34, 660-665	9.1	20
202	In vitro study of stimulation effect on endothelialization by a copper bearing cobalt alloy. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2018</b> , 106, 561-569	5.4	7
201	High-Temperature Oxidation Behavior of SIMP Steel at 800 °C. <i>Oxidation of Metals</i> , <b>2018</b> , 89, 49-60	1.6	4
200	Effect of annealing temperature on mechanical and antibacterial properties of Cu-bearing titanium alloy and its preliminary study of antibacterial mechanism. <i>Materials Science and Engineering C</i> , <b>2018</b> , 93, 495-504	8.3	31
199	Mechanical properties of magnesium alloys for medical application: A review. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2018</b> , 87, 68-79	4.1	108
198	Mitigation of microbiologically influenced corrosion of 304L stainless steel in the presence of <i>Pseudomonas aeruginosa</i> by <i>Cistus ladanifer</i> leaves extract. <i>International Biodeterioration and Biodegradation</i> , <b>2018</b> , 133, 159-169	4.8	38
197	Molecular and cellular mechanisms for zoledronic acid-loaded magnesium-strontium alloys to inhibit giant cell tumors of bone. <i>Acta Biomaterialia</i> , <b>2018</b> , 77, 365-379	10.8	23
196	Comparative study of the effect of Nd and Y content on the mechanical and biodegradable properties of Mg-Zn-Zr-xNd/Y (x=0.5, 1, 2) alloys. <i>Materials Technology</i> , <b>2018</b> , 33, 659-671	2.1	13
195	MgCu coating on Ti6Al4V alloy for orthopedic application. <i>Materials Letters</i> , <b>2018</b> , 233, 35-38	3.3	8
194	Comparative study on effects of different coatings on biodegradable and wear properties of Mg-2Zn-1Gd-0.5Zr alloy. <i>Surface and Coatings Technology</i> , <b>2018</b> , 352, 273-284	4.4	13
193	Optimized antibacterial treatment for the Cu-bearing 420 stainless steel. <i>Materials Technology</i> , <b>2018</b> , 33, 699-708	2.1	6
192	Corrosion and biological performance of biodegradable magnesium alloys mediated by low copper addition and processing. <i>Materials Science and Engineering C</i> , <b>2018</b> , 93, 565-581	8.3	35
191	In Vitro Cytocompatibility and Osteogenic Potential of Biodegradable MgBr Alloys <b>2018</b> , 425-436		

190	Anti-fibrotic function of Cu-bearing stainless steel for reducing recurrence of urethral stricture after stent implantation. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2018</b> , 106, 2019-2028	3.5	5
189	CoCrWCu alloy with antibacterial activity fabricated by selective laser melting: Densification, mechanical properties and microstructural analysis. <i>Powder Technology</i> , <b>2018</b> , 325, 289-300	5.2	26
188	A self-healing stainless steel: Role of nitrogen in eliminating detrimental effect of cold working on pitting corrosion resistance. <i>Corrosion Science</i> , <b>2018</b> , 145, 55-66	6.8	25
187	Cu-bearing stainless steel reduces cytotoxicity and crystals adhesion after ureteral epithelial cells exposing to calcium oxalate monohydrate. <i>Scientific Reports</i> , <b>2018</b> , 8, 14094	4.9	5
186	Microbial corrosion resistance of a novel Cu-bearing pipeline steel. <i>Journal of Materials Science and Technology</i> , <b>2018</b> , 34, 2480-2491	9.1	32
185	Novel Bio-functional Magnesium Coating on Porous Ti6Al4V Orthopaedic Implants: In vitro and In vivo Study. <i>Scientific Reports</i> , <b>2017</b> , 7, 40755	4.9	32
184	In vitro study on infectious ureteral encrustation resistance of Cu-bearing stainless steel. <i>Journal of Materials Science and Technology</i> , <b>2017</b> , 33, 1604-1609	9.1	14
183	Biocompatibility and neurotoxicity of magnesium alloys potentially used for neural repairs. <i>Materials Science and Engineering C</i> , <b>2017</b> , 78, 1155-1163	8.3	28
182	Eliminating detrimental effect of cold working on pitting corrosion resistance in high nitrogen austenitic stainless steels. <i>Corrosion Science</i> , <b>2017</b> , 123, 351-355	6.8	26
181	Effect of heat treatment on mechanical and biodegradable properties of an extruded ZK60 alloy. <i>Bioactive Materials</i> , <b>2017</b> , 2, 19-26	16.7	38
180	Evaluation of the osteo-inductive potential of hollow three-dimensional magnesium-strontium substitutes for the bone grafting application. <i>Materials Science and Engineering C</i> , <b>2017</b> , 73, 347-356	8.3	19
179	Antibacterial Titanium Produced Using Selective Laser Melting. <i>Jom</i> , <b>2017</b> , 69, 2719-2724	2.1	12
178	Nano-copper-bearing stainless steel promotes fracture healing by accelerating the callus evolution process. <i>International Journal of Nanomedicine</i> , <b>2017</b> , 12, 8443-8457	7.3	15
177	Improvement of notch fatigue properties of ultra-high CM400 maraging steel through shot peening. <i>Journal of Materials Research</i> , <b>2017</b> , 32, 4424-4432	2.5	6
176	Ion channel functional protein kinase TRPM7 regulates Mg ions to promote the osteoinduction of human osteoblast via PI3K pathway: In vitro simulation of the bone-repairing effect of Mg-based alloy implant. <i>Acta Biomaterialia</i> , <b>2017</b> , 63, 369-382	10.8	74
175	Effect of Cu Addition in Pipeline Steels on Microstructure, Mechanical Properties and Microbiologically Influenced Corrosion. <i>Acta Metallurgica Sinica (English Letters)</i> , <b>2017</b> , 30, 601-613	2.5	12
174	In vitro and in vivo evaluation of MgF coated AZ31 magnesium alloy porous scaffolds for bone regeneration. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2017</b> , 149, 330-340	6	49
173	Effect of copper addition on mechanical properties, corrosion resistance and antibacterial property of 316L stainless steel. <i>Materials Science and Engineering C</i> , <b>2017</b> , 71, 1079-1085	8.3	63

172	Accelerated corrosion of 2205 duplex stainless steel caused by marine aerobic <i>Pseudomonas aeruginosa</i> biofilm. <i>Bioelectrochemistry</i> , <b>2017</b> , 113, 1-8	5.6	110
171	Effect of Cu Addition to 2205 Duplex Stainless Steel on the Resistance against Pitting Corrosion by the <i>Pseudomonas aeruginosa</i> Biofilm. <i>Journal of Materials Science and Technology</i> , <b>2017</b> , 33, 723-727	9.1	42
170	In Vivo Study on Degradation Behavior and Histologic Response of Pure Magnesium in Muscles. <i>Journal of Materials Science and Technology</i> , <b>2017</b> , 33, 469-474	9.1	11
169	Evaluation of promoting effect of a novel Cu-bearing metal stent on endothelialization process from in vitro and in vivo studies. <i>Scientific Reports</i> , <b>2017</b> , 7, 17394	4.9	8
168	Biodegradable Metals for Orthopedic Applications <b>2017</b> , 275-309		3
167	A New Maraging Stainless Steel with Excellent Strength-Toughness-Corrosion Synergy. <i>Materials</i> , <b>2017</b> , 10,	3.5	15
166	Tailoring the degradation and biological response of a magnesium-strontium alloy for potential bone substitute application. <i>Materials Science and Engineering C</i> , <b>2016</b> , 58, 799-811	8.3	42
165	In vitro evaluation of cell compatibility and hemocompatibility of a Cu-bearing titanium alloy. <i>International Journal of Computational Materials Science and Surface Engineering</i> , <b>2016</b> , 6, 228	0.4	1
164	Biodegradable Mg-Cu alloy implants with antibacterial activity for the treatment of osteomyelitis: In vitro and in vivo evaluations. <i>Biomaterials</i> , <b>2016</b> , 106, 250-63	15.6	138
163	Inhibition of <i>Staphylococcus aureus</i> biofilm by a copper-bearing 317L-Cu stainless steel and its corrosion resistance. <i>Materials Science and Engineering C</i> , <b>2016</b> , 69, 744-50	8.3	36
162	Copper precipitation behavior and mechanical properties of Cu-bearing 316L austenitic stainless steel: A comprehensive cross-correlation study. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2016</b> , 675, 243-252	5.3	53
161	Investigation on mechanical, corrosion resistance and antibacterial properties of Cu-bearing 2205 duplex stainless steel by solution treatment. <i>RSC Advances</i> , <b>2016</b> , 6, 112738-112747	3.7	12
160	Novel biocompatible magnesium alloys design with nutrient alloying elements Si, Ca and Sr: Structure and properties characterization. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2016</b> , 214, 26-36	3.1	28
159	Investigation of the inner corrosion layer formed in pulse electrodeposition coating on Mg-Sr alloy and corresponding degradation behavior. <i>Journal of Colloid and Interface Science</i> , <b>2016</b> , 481, 1-12	9.3	14
158	An investigation of the antibacterial ability and cytotoxicity of a novel Cu-bearing 317L stainless steel. <i>Scientific Reports</i> , <b>2016</b> , 6, 29244	4.9	34
157	Biological behaviour of human umbilical artery smooth muscle cell grown on nickel-free and nickel-containing stainless steel for stent implantation. <i>Scientific Reports</i> , <b>2016</b> , 6, 18762	4.9	8
156	Antibacterial effect of copper-bearing titanium alloy (Ti-Cu) against <i>Streptococcus mutans</i> and <i>Porphyromonas gingivalis</i> . <i>Scientific Reports</i> , <b>2016</b> , 6, 29985	4.9	122
155	Biodegradable Mg-Cu alloys with enhanced osteogenesis, angiogenesis, and long-lasting antibacterial effects. <i>Scientific Reports</i> , <b>2016</b> , 6, 27374	4.9	103

154	Toward a Molecular Understanding of the Antibacterial Mechanism of Copper-Bearing Titanium Alloys against <i>Staphylococcus aureus</i> . <i>Advanced Healthcare Materials</i> , <b>2016</b> , 5, 557-66	10.1	93
153	Thermodynamic Calculation Study on Effect of Manganese on Stability of Austenite in High Nitrogen Stainless Steels. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2016</b> , 47, 3284-3288	2.3	4
152	A novel ureteral stent material with antibacterial and reducing encrustation properties. <i>Materials Science and Engineering C</i> , <b>2016</b> , 68, 221-228	8.3	15
151	Antimicrobial Cu-bearing stainless steel scaffolds. <i>Materials Science and Engineering C</i> , <b>2016</b> , 68, 519-522.	8.3	31
150	Comparison study of different coatings on degradation performance and cell response of Mg-Sr alloy. <i>Materials Science and Engineering C</i> , <b>2016</b> , 69, 95-107	8.3	17
149	Effect of Cold Deformation on the Friction/Wear Property of a Biomedical Nickel-Free High-Nitrogen Stainless Steel. <i>Acta Metallurgica Sinica (English Letters)</i> , <b>2016</b> , 29, 217-227	2.5	8
148	Effects of temperature and strain rate on the tensile behaviors of SIMP steel in static lead bismuth eutectic. <i>Journal of Nuclear Materials</i> , <b>2016</b> , 473, 189-196	3.3	12
147	Oxidation and tensile behavior of ferritic/martensitic steels after exposure to lead-bismuth eutectic. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2016</b> , 670, 97-105	5.3	7
146	Investigation of microbiologically influenced corrosion of high nitrogen nickel-free stainless steel by <i>Pseudomonas aeruginosa</i> . <i>Corrosion Science</i> , <b>2016</b> , 111, 811-821	6.8	84
145	Effect of surface passivation on corrosion resistance and antibacterial properties of Cu-bearing 316L stainless steel. <i>Applied Surface Science</i> , <b>2016</b> , 386, 371-380	6.7	37
144	Novel Cu-bearing high-strength pipeline steels with excellent resistance to hydrogen-induced cracking. <i>Materials and Design</i> , <b>2016</b> , 92, 300-305	8.1	42
143	Vascularized bone grafting fixed by biodegradable magnesium screw for treating osteonecrosis of the femoral head. <i>Biomaterials</i> , <b>2016</b> , 81, 84-92	15.6	154
142	In vitro study on an antibacterial Ti-5Cu alloy for medical application. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2016</b> , 27, 91	4.5	34
141	Preliminary assessment of metal-porcelain bonding strength of CoCrW alloy after 3wt.% Cu addition. <i>Materials Science and Engineering C</i> , <b>2016</b> , 63, 37-45	8.3	15
140	Fabrication and Evaluation of a Bioactive Sr-Ta-B Contained Micro-Arc Oxidation Coating on Magnesium Strontium Alloy for Bone Repair Application. <i>Journal of Materials Science and Technology</i> , <b>2016</b> , 32, 233-244	9.1	51
139	Effect of cold deformation on pitting corrosion of 00Cr18Mn15Mo2N0.86 stainless steel for coronary stent application. <i>Materials Science and Engineering C</i> , <b>2016</b> , 60, 293-297	8.3	15
138	Dynamic Continuous Cooling Transformation Behavior of A Novel Cu-bearing Pipeline Steel. <i>ISIJ International</i> , <b>2016</b> , 56, 2284-2289	1.7	8
137	Bio-Functional Cu Containing Biomaterials: a New Way to Enhance Bio-Adaption of Biomaterials. <i>Journal of Materials Science and Technology</i> , <b>2016</b> , 32, 835-839	9.1	36

136	Preparation and in vitro degradation characterization of Si-containing coating on AZ31B alloy. <i>Materials Technology</i> , <b>2016</b> , 31, 828-835	2.1	2
135	A novel coping metal material CoCrCu alloy fabricated by selective laser melting with antimicrobial and antibiofilm properties. <i>Materials Science and Engineering C</i> , <b>2016</b> , 67, 461-467	8.3	28
134	Three dimensional atom probe and first-principles studies on spinodal decomposition of Cr in a Co-alloyed maraging stainless steel. <i>Scripta Materialia</i> , <b>2016</b> , 121, 37-41	5.6	14
133	Surface Modification on Biodegradable Magnesium Alloys as Orthopedic Implant Materials to Improve the Bio-adaptability: A Review. <i>Journal of Materials Science and Technology</i> , <b>2016</b> , 32, 827-834	9.1	101
132	Antibacterial Performance of Cu-Bearing Stainless Steel against Staphylococcus aureus and Pseudomonas aeruginosa in Whole Milk. <i>Journal of Materials Science and Technology</i> , <b>2016</b> , 32, 445-451	9.1	25
131	The fluoride coated AZ31B magnesium alloy improves corrosion resistance and stimulates bone formation in rabbit model. <i>Materials Science and Engineering C</i> , <b>2016</b> , 63, 506-11	8.3	47
130	Antibacterial ability of a novel Cu-bearing 2205 duplex stainless steel against Pseudomonas aeruginosa biofilm in artificial seawater. <i>International Biodeterioration and Biodegradation</i> , <b>2016</b> , 110, 199-205	4.8	46
129	Effects of aging time on intergranular and pitting corrosion behavior of Cu-bearing 304L stainless steel in comparison with 304L stainless steel. <i>Corrosion Science</i> , <b>2016</b> , 113, 46-56	6.8	47
128	Enoxacin-loaded Poly (lactic-co-glycolic acid) Coating on Porous Magnesium Scaffold as a Drug Delivery System: Antibacterial Properties and Inhibition of Osteoclastic Bone Resorption. <i>Journal of Materials Science and Technology</i> , <b>2016</b> , 32, 865-873	9.1	9
127	Biocompatibility of surface-modified magnesium and magnesium alloys <b>2015</b> , 231-260		2
126	High Temperature Oxidation Behavior of SIMP Steel. <i>Oxidation of Metals</i> , <b>2015</b> , 83, 521-532	1.6	13
125	A new 1.9 GPa maraging stainless steel strengthened by multiple precipitating species. <i>Materials and Design</i> , <b>2015</b> , 82, 56-63	8.1	35
124	Surface characterization and preparation of Ta coating on Ti6Al4V alloy. <i>Journal of Alloys and Compounds</i> , <b>2015</b> , 644, 698-703	5.7	21
123	Study on improved tribological properties by alloying copper to CP-Ti and Ti-6Al-4V alloy. <i>Materials Science and Engineering C</i> , <b>2015</b> , 57, 123-32	8.3	44
122	Microstructural Stability of Heat-Resistant Steels. <i>Engineering Materials</i> , <b>2015</b> , 135-161	0.4	
121	Laboratory investigation of the microbiologically influenced corrosion (MIC) resistance of a novel Cu-bearing 2205 duplex stainless steel in the presence of an aerobic marine Pseudomonas aeruginosa biofilm. <i>Biofouling</i> , <b>2015</b> , 31, 481-92	3.3	80
120	Degradation and biological properties of Ca-P contained micro-arc oxidation self-sealing coating on pure magnesium for bone fixation. <i>International Journal of Energy Production and Management</i> , <b>2015</b> , 2, 107-18	5.3	16
119	Anti-biofilm formation of a novel stainless steel against Staphylococcus aureus. <i>Materials Science and Engineering C</i> , <b>2015</b> , 51, 356-61	8.3	22

118	Effect of Heat Treatment on Cu Distribution, Antibacterial Performance and Cytotoxicity of Ti <sub>6</sub> Al <sub>4</sub> V <sub>2</sub> Cu Alloy. <i>Journal of Materials Science and Technology</i> , <b>2015</b> , 31, 723-732	9.1	82
117	Cu-bearing steel reduce inflammation after stent implantation. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2015</b> , 26, 114	4.5	5
116	HIC and SSC Behavior of High-Strength Pipeline Steels. <i>Acta Metallurgica Sinica (English Letters)</i> , <b>2015</b> , 28, 799-808	2.5	19
115	Residual Ferrite and Relationship Between Composition and Microstructure in High-Nitrogen Austenitic Stainless Steels. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2015</b> , 46, 5537-5545	2.3	17
114	Cytocompatibility and Hemolysis of AZ31B Magnesium Alloy with Si-containing Coating. <i>Journal of Materials Science and Technology</i> , <b>2015</b> , 31, 845-851	9.1	33
113	Effect of Microstructure on Hydrogen Induced Cracking Behavior of a High Deformability Pipeline Steel. <i>Journal of Iron and Steel Research International</i> , <b>2015</b> , 22, 937-942	1.2	25
112	Lead/Bismuth Eutectic Corrosion Behaviors of Ferritic/Martensitic Steels in Low Oxygen Concentration Environment. <i>Oxidation of Metals</i> , <b>2015</b> , 84, 383-395	1.6	5
111	Study of the processing map and hot deformation behavior of a Cu-bearing 317LN austenitic stainless steel. <i>Materials and Design</i> , <b>2015</b> , 87, 303-312	8.1	52
110	The in vitro biocompatibility and macrophage phagocytosis of Mg <sub>17</sub> Al <sub>12</sub> phase in Mg-Al-Zn alloys. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2015</b> , 103, 2405-15	5.4	10
109	Microbiological influenced corrosion resistance characteristics of a 304L-Cu stainless steel against Escherichia coli. <i>Materials Science and Engineering C</i> , <b>2015</b> , 48, 228-34	8.3	58
108	Oxidation behavior of ferritic/martensitic steels in stagnant liquid LBE saturated by oxygen at 600 °C. <i>Journal of Nuclear Materials</i> , <b>2015</b> , 457, 135-141	3.3	31
107	Osteogenic ability of Cu-bearing stainless steel. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2015</b> , 103, 1433-44	3.5	42
106	The effects of pulse electrodeposition parameters on morphology and formation of dual-layer Si-doped calcium phosphate coating on AZ31 alloy. <i>Ceramics International</i> , <b>2015</b> , 41, 787-796	5.1	28
105	A novel nano-copper-bearing stainless steel with reduced Cu(2+) release only inducing transient foreign body reaction via affecting the activity of NF- $\kappa$ B and Caspase 3. <i>International Journal of Nanomedicine</i> , <b>2015</b> , 10, 6725-39	7.3	13
104	9-12Cr Heat-Resistant Steels. <i>Engineering Materials</i> , <b>2015</b> ,	0.4	14
103	Introduction to Heat-Resistant Steels. <i>Engineering Materials</i> , <b>2015</b> , 1-24	0.4	1
102	Conventional Heat-Resistant Steels. <i>Engineering Materials</i> , <b>2015</b> , 27-43	0.4	
101	Antibacterial Performance of a Cu-bearing Stainless Steel against Microorganisms in Tap Water. <i>Journal of Materials Science and Technology</i> , <b>2015</b> , 31, 243-251	9.1	45



100	Relationship between Laves phase and the impact brittleness of P92 steel reevaluated. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2015</b> , 639, 252-258	5.3	19
99	Precipitation behavior in a nitride-strengthened martensitic heat resistant steel during hot deformation. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2015</b> , 639, 173-180	5.3	5
98	Study on microstructure and properties of extruded Mg-2Nd-0.2Zn alloy as potential biodegradable implant material. <i>Materials Science and Engineering C</i> , <b>2015</b> , 49, 422-429	8.3	29
97	Creep of Heat-Resistant Steels. <i>Engineering Materials</i> , <b>2015</b> , 163-189	0.4	1
96	Hot Deformation of Heat-Resistant Steels. <i>Engineering Materials</i> , <b>2015</b> , 191-215	0.4	
95	Loss of mechanical properties in vivo and bone-implant interface strength of AZ31B magnesium alloy screws with Si-containing coating. <i>Acta Biomaterialia</i> , <b>2014</b> , 10, 2333-40	10.8	73
94	Effect of Cu content on the antibacterial activity of titanium-copper sintered alloys. <i>Materials Science and Engineering C</i> , <b>2014</b> , 35, 392-400	8.3	154
93	Fluoride Conversion Coating on Biodegradable AZ31B Magnesium Alloy. <i>Journal of Materials Science and Technology</i> , <b>2014</b> , 30, 666-674	9.1	66
92	Fabrication and evaluation of bioresorbable PLLA/magnesium and PLLA/magnesium fluoride hybrid composites for orthopedic implants. <i>Composites Science and Technology</i> , <b>2014</b> , 98, 36-43	8.6	40
91	Study on antibacterial performance of Cu-bearing cobalt-based alloy. <i>Materials Letters</i> , <b>2014</b> , 129, 88-90	3.3	34
90	Synthesis and characterization of CaBr <sub>2</sub> coating on pure magnesium for biomedical application. <i>Ceramics International</i> , <b>2014</b> , 40, 4559-4565	5.1	16
89	Preliminary research on a novel bioactive silicon doped calcium phosphate coating on AZ31 magnesium alloy via electrodeposition. <i>Materials Science and Engineering C</i> , <b>2014</b> , 36, 65-76	8.3	53
88	Laves-phase in the China Low Activation Martensitic steel after long-term creep exposure. <i>Materials &amp; Design</i> , <b>2014</b> , 63, 333-335		18
87	Finite element analyses for optimization design of biodegradable magnesium alloy stent. <i>Materials Science and Engineering C</i> , <b>2014</b> , 42, 705-14	8.3	24
86	Preclinical investigation of an innovative magnesium-based bone graft substitute for potential orthopaedic applications. <i>Journal of Orthopaedic Translation</i> , <b>2014</b> , 2, 139-148	4.2	36
85	Research on the corrosion resistance and formation of double-layer calcium phosphate coating on AZ31 obtained at varied temperatures. <i>Materials Science and Engineering C</i> , <b>2014</b> , 43, 264-71	8.3	13
84	Constitutive Modeling, Microstructure Evolution, and Processing Map for a Nitride-Strengthened Heat-Resistant Steel. <i>Journal of Materials Engineering and Performance</i> , <b>2014</b> , 23, 3042-3050	1.6	12
83	Cytotoxic Effects of Biodegradation of Pure Mg and MAO-Mg on Tumor Cells of MG63 and KB. <i>Journal of Materials Science and Technology</i> , <b>2014</b> , 30, 487-492	9.1	16

82	Microstructure evolution in CLAM steel under low cycle fatigue. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2014</b> , 607, 356-359	5.3	10
81	The effect of metallic magnesium degradation products on osteoclast-induced osteolysis and attenuation of NF- $\kappa$ B and NFATc1 signaling. <i>Biomaterials</i> , <b>2014</b> , 35, 6299-310	15.6	127
80	Study on biodegradation of the second phase Mg <sub>17</sub> Al <sub>12</sub> in Mg-Al-Zn alloys: in vitro experiment and thermodynamic calculation. <i>Materials Science and Engineering C</i> , <b>2014</b> , 35, 1-7	8.3	28
79	Effect of preparation parameters on the properties of hydroxyapatite containing micro-arc oxidation coating on biodegradable ZK60 magnesium alloy. <i>Ceramics International</i> , <b>2014</b> , 40, 10043-10051	5.1	68
78	Preliminary study on a bioactive Sr containing CaP coating on pure magnesium by a two-step procedure. <i>Surface and Coatings Technology</i> , <b>2014</b> , 252, 79-86	4.4	22
77	The antibacterial properties and biocompatibility of a Ti-Cu sintered alloy for biomedical application. <i>Biomedical Materials (Bristol)</i> , <b>2014</b> , 9, 025013	3.5	46
76	Antibacterial properties of magnesium in vitro and in an in vivo model of implant-associated methicillin-resistant <i>Staphylococcus aureus</i> infection. <i>Antimicrobial Agents and Chemotherapy</i> , <b>2014</b> , 58, 7586-91	5.9	77
75	An alternative magnesium-based root canal disinfectant: Preliminary study of its efficacy against <i>Enterococcus faecalis</i> and <i>Candida albicans</i> in vitro. <i>Progress in Natural Science: Materials International</i> , <b>2014</b> , 24, 441-445	3.6	3
74	Antibacterial Properties of Ti-Al-V-Cu Alloys. <i>Journal of Materials Science and Technology</i> , <b>2014</b> , 30, 699-705	9.1	100
73	Hot deformation characteristics of a nitride strengthened martensitic heat resistant steel. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2014</b> , 590, 199-208	5.3	32
72	Analysis of deformation behavior and workability of advanced 9CrNb ferritic heat resistant steels. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2014</b> , 604, 207-214	5.3	24
71	In vitro degradation and biocompatibility of a strontium-containing micro-arc oxidation coating on the biodegradable ZK60 magnesium alloy. <i>Applied Surface Science</i> , <b>2014</b> , 288, 718-726	6.7	53
70	Cytotoxic Effect on Osteosarcoma MG-63 Cells by Degradation of Magnesium. <i>Journal of Materials Science and Technology</i> , <b>2014</b> , 30, 888-893	9.1	39
69	A new antibacterial titanium-copper sintered alloy: preparation and antibacterial property. <i>Materials Science and Engineering C</i> , <b>2013</b> , 33, 4280-7	8.3	174
68	Short-term effect of magnesium implantation on the osteomyelitis modeled animals induced by <i>Staphylococcus aureus</i> . <i>Journal of Materials Science: Materials in Medicine</i> , <b>2013</b> , 24, 2405-16	4.5	22
67	Biodegradable Materials for Bone Repairs: A Review. <i>Journal of Materials Science and Technology</i> , <b>2013</b> , 29, 503-513	9.1	251
66	Effect of implantation of biodegradable magnesium alloy on BMP-2 expression in bone of ovariectomized osteoporosis rats. <i>Materials Science and Engineering C</i> , <b>2013</b> , 33, 4470-4	8.3	17
65	Microstructural stability of 9%Cr ferrite/martensite heat-resistant steels. <i>Frontiers of Materials Science</i> , <b>2013</b> , 7, 1-27	2.5	78

64	Bio-Functional Design for Metal Implants, a New Concept for Development of Metallic Biomaterials. <i>Journal of Materials Science and Technology</i> , <b>2013</b> , 29, 1005-1010	9.1	46
63	The in vitro degradation process and biocompatibility of a ZK60 magnesium alloy with a forsterite-containing micro-arc oxidation coating. <i>Acta Biomaterialia</i> , <b>2013</b> , 9, 8631-42	10.8	142
62	Characterization of micro-arc oxidation coating post-treated by hydrofluoric acid on biodegradable ZK60 magnesium alloy. <i>Surface and Coatings Technology</i> , <b>2013</b> , 232, 899-905	4.4	28
61	Influence of albumin and inorganic ions on electrochemical corrosion behavior of plasma electrolytic oxidation coated magnesium for surgical implants. <i>Applied Surface Science</i> , <b>2013</b> , 282, 186-194	6.7	37
60	Research on super-hydrophobic surface of biodegradable magnesium alloys used for vascular stents. <i>Materials Science and Engineering C</i> , <b>2013</b> , 33, 2885-90	8.3	53
59	Experimental data confirm numerical modeling of the degradation process of magnesium alloys stents. <i>Acta Biomaterialia</i> , <b>2013</b> , 9, 8730-9	10.8	48
58	In vivo degradation and tissue compatibility of ZK60 magnesium alloy with micro-arc oxidation coating in a transcortical model. <i>Materials Science and Engineering C</i> , <b>2013</b> , 33, 3881-8	8.3	44
57	Evolution of microstructure and changes of mechanical properties of CLAM steel after long-term aging. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2013</b> , 586, 253-258	5.3	49
56	Magnesium Alloy for Repair of Lateral Tibial Plateau Defect in Minipig Model. <i>Journal of Materials Science and Technology</i> , <b>2013</b> , 29, 539-544	9.1	12
55	Antibacterial activity against <i>Porphyromonas gingivalis</i> and biological characteristics of antibacterial stainless steel. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2013</b> , 105, 51-7	6	45
54	Bioactive Ca-P coating with self-sealing structure on pure magnesium. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2013</b> , 24, 889-901	4.5	30
53	Influence of thermal aging on microstructure and mechanical properties of CLAM steel. <i>Journal of Nuclear Materials</i> , <b>2013</b> , 443, 479-483	3.3	25
52	Study of second phase in bioabsorbable magnesium alloys: Phase stability evaluation via Dmol3 calculation. <i>APL Materials</i> , <b>2013</b> , 1, 052104	5.7	12
51	Reduction of in-stent restenosis risk on nickel-free stainless steel by regulating cell apoptosis and cell cycle. <i>PLoS ONE</i> , <b>2013</b> , 8, e62193	3.7	11
50	Effect of nitrogen on biocorrosion behavior of high nitrogen nickel-free stainless steel in different simulated body fluids. <i>Materials Science and Engineering C</i> , <b>2012</b> , 32, 510-516	8.3	29
49	Preliminary study of anti-infective function of a copper-bearing stainless steel. <i>Materials Science and Engineering C</i> , <b>2012</b> , 32, 1204-1209	8.3	85
48	In vitro and in vivo evaluations on osteogenesis and biodegradability of a β-tricalcium phosphate coated magnesium alloy. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2012</b> , 100, 293-304	5.4	40
47	High nitrogen nickel-free austenitic stainless steel: A promising coronary stent material. <i>Science China Technological Sciences</i> , <b>2012</b> , 55, 329-340	3.5	23

46	Fabrication and Characterization of Ca/Mg/P Containing Coating on Pure Magnesium. <i>Journal of Materials Science and Technology</i> , <b>2012</b> , 28, 636-641	9.1	15
45	Preliminary Study on Cytotoxic Effect of Biodegradation of Magnesium on Cancer Cells. <i>Journal of Materials Science and Technology</i> , <b>2012</b> , 28, 769-772	9.1	27
44	Antibacterial Behavior of a Cu-bearing Type 200 Stainless Steel. <i>Journal of Materials Science and Technology</i> , <b>2012</b> , 28, 1067-1070	9.1	26
43	In vitro study of role of trace amount of Cu release from Cu-bearing stainless steel targeting for reduction of in-stent restenosis. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2012</b> , 23, 1235-45	4.5	56
42	The impact toughness of a nitride-strengthened martensitic heat resistant steel. <i>Science China Technological Sciences</i> , <b>2012</b> , 55, 1858-1862	3.5	8
41	In vitro Study on a New High Nitrogen Nickel-free Austenitic Stainless Steel for Coronary Stents. <i>Journal of Materials Science and Technology</i> , <b>2011</b> , 27, 325-331	9.1	18
40	Microstructure Evolution of a 10Cr Heat-Resistant Steel during High Temperature Creep. <i>Journal of Materials Science and Technology</i> , <b>2011</b> , 27, 344-351	9.1	38
39	Finite element analyses for design evaluation of biodegradable magnesium alloy stents in arterial vessels. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2011</b> , 176, 1733-1740	3.1	63
38	Dynamic behaviors of a Ca/P coated AZ31B magnesium alloy during in vitro and in vivo degradations. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2011</b> , 176, 1718-1726	3.1	42
37	Effect of surface coating on antibacterial behavior of magnesium based metals. <i>Materials Letters</i> , <b>2011</b> , 65, 3509-3511	3.3	93
36	Antibacterial effect of 317L stainless steel contained copper in prevention of implant-related infection in vitro and in vivo. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2011</b> , 22, 2525-35	4.5	92
35	Potential antiosteoporosis effect of biodegradable magnesium implanted in STZ-induced diabetic rats. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2011</b> , 99, 386-94	5.4	12
34	Study of copper precipitation behavior in a Cu-bearing austenitic antibacterial stainless steel. <i>Materials &amp; Design</i> , <b>2011</b> , 32, 2374-2379		86
33	Differential scanning calorimetry analysis on Cu precipitation in a high Cu austenitic stainless steel. <i>Materials &amp; Design</i> , <b>2011</b> , 32, 3980-3985		32
32	Nickel-free austenitic stainless steels for medical applications. <i>Science and Technology of Advanced Materials</i> , <b>2010</b> , 11, 014105	7.1	142
31	Preparation and characterization of Ca-P coating on AZ31 magnesium alloy. <i>Transactions of Nonferrous Metals Society of China</i> , <b>2010</b> , 20, s648-s654	3.3	38
30	Cu Ions Dissolution from Cu-bearing Antibacterial Stainless Steel. <i>Journal of Materials Science and Technology</i> , <b>2010</b> , 26, 941-944	9.1	42
29	The effect of Cu addition on the electrochemical corrosion and passivation behavior of stainless steels. <i>Electrochimica Acta</i> , <b>2010</b> , 55, 5028-5035	6.7	102

28	Study on fatigue property of a new 2.8 GPa grade maraging steel. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2010</b> , 527, 3057-3063	5.3	34
27	Fluoride treatment and in vitro corrosion behavior of an AZ31B magnesium alloy. <i>Materials Science and Engineering C</i> , <b>2010</b> , 30, 740-748	8.3	157
26	Effect of nitrogen on blood compatibility of nickel-free high nitrogen stainless steel for biomaterial. <i>Materials Science and Engineering C</i> , <b>2010</b> , 30, 1183-1189	8.3	37
25	In vivo evaluation of biodegradable magnesium alloy bone implant in the first 6 months implantation. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2009</b> , 90, 882-93	5.4	188
24	Phosphating treatment and corrosion properties of Mg-Mn-Zn alloy for biomedical application. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2009</b> , 20, 859-67	4.5	85
23	Study on Laves phase in an advanced heat-resistant steel. <i>Frontiers of Materials Science in China</i> , <b>2009</b> , 3, 434-441		24
22	Microstructure, mechanical and corrosion properties and biocompatibility of Mg <sub>2</sub> Ni/Mn alloys for biomedical application. <i>Materials Science and Engineering C</i> , <b>2009</b> , 29, 987-993	8.3	328
21	In vitro and in vivo evaluation of the surface bioactivity of a calcium phosphate coated magnesium alloy. <i>Biomaterials</i> , <b>2009</b> , 30, 1512-23	15.6	398
20	Study of high strength pipeline steels with different microstructures. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2009</b> , 502, 38-44	5.3	99
19	Relation among rolling parameters, microstructures and mechanical properties in an acicular ferrite pipeline steel. <i>Materials &amp; Design</i> , <b>2009</b> , 30, 3436-3443		68
18	Influence of Cold Work on Pitting Corrosion Behavior of a High Nitrogen Stainless Steel. <i>Journal of the Electrochemical Society</i> , <b>2008</b> , 155, C455	3.9	40
17	Study on antibacterial mechanism of copper-bearing austenitic antibacterial stainless steel by atomic force microscopy. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2008</b> , 19, 3057-62	4.5	96
16	Microstructure, mechanical properties and corrosion properties of Mg <sub>2</sub> Ni <sub>3</sub> alloys with low Zn content. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2008</b> , 488, 102-111	5.3	117
15	In vivo corrosion behavior of Mg-Mn-Zn alloy for bone implant application. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2007</b> , 83, 703-11	5.4	411
14	In Vitro Biocompatibility of a New High Nitrogen Nickel Free Austenitic Stainless Steel. <i>Key Engineering Materials</i> , <b>2007</b> , 342-343, 605-608	0.4	9
13	In situ TEM study of the effect of M/A films at grain boundaries on crack propagation in an ultra-fine acicular ferrite pipeline steel. <i>Acta Materialia</i> , <b>2006</b> , 54, 435-443	8.4	134
12	Acicular ferritic microstructure of a low-carbon Mn <sub>2</sub> Mo <sub>2</sub> Nb microalloyed pipeline steel. <i>Materials Characterization</i> , <b>2005</b> , 54, 305-314	3.9	99
11	In vitro study of platelet adhesion on medical nickel-free stainless steel surface. <i>Materials Letters</i> , <b>2005</b> , 59, 1785-1789	3.3	39

10	Strengthening and improvement of sulfide stress cracking resistance in acicular ferrite pipeline steels by nano-sized carbonitrides. <i>Scripta Materialia</i> , <b>2005</b> , 52, 881-886	5.6	49
9	Role of microstructure on sulfide stress cracking of oil and gas pipeline steels. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2003</b> , 34, 1089-1096	2.3	35
8	Comparison on strength and toughness behaviors of microalloyed pipeline steels with acicular ferrite and ultrafine ferrite. <i>Materials Letters</i> , <b>2003</b> , 57, 1496-1500	3.3	75
7	The effects of thermo-mechanical control process on microstructures and mechanical properties of a commercial pipeline steel. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2002</b> , 335, 14-20	5.3	167
6	Strengthening and toughening of a 2800-MPa grade maraging steel. <i>Materials Letters</i> , <b>2002</b> , 56, 763-769	3.3	46
5	Investigation on the H <sub>2</sub> S-resistant behaviors of acicular ferrite and ultrafine ferrite. <i>Materials Letters</i> , <b>2002</b> , 57, 141-145	3.3	55
4	Macroporous and Antibacterial Hydrogels Enabled by Incorporation of Mg-Cu Alloy Particles for Accelerating Skin Wound Healing. <i>Acta Metallurgica Sinica (English Letters)</i> , 1	2.5	0
3	Optimized Mechanical Properties, Corrosion Resistance and Bactericidal Ability of Ti-15Zr-xCu Biomedical Alloys During Aging Treatment. <i>Acta Metallurgica Sinica (English Letters)</i> , 1	2.5	1
2	Effect of copper content on the biodegradation behavior of Fe-Mn-C alloy system. <i>Materials Technology</i> , 1-11	2.1	1
1	Enhanced Bio-corrosion Resistance by Cu Alloying in a Micro-alloyed Pipeline Steel. <i>Acta Metallurgica Sinica (English Letters)</i> , 1	2.5	