Xuanyong Liu

List of Publications by Year in Descending Order

208 papers	8,789 citations	50 h-index	84 g-index
219 ext. papers	10,450 ext. citations	8.2 avg, IF	6.47 L-index

#	Paper	IF	Citations
208	Black Mn-containing layered double hydroxide coated magnesium alloy for osteosarcoma therapy, bacteria killing, and bone regeneration.. *Bioactive Materials*, **2022**, 17, 394-405	16.7	2
207	Constructing fluorine-doped Zr-MOF films on titanium for antibacteria, anti-inflammation, and osteogenesis.. *Materials Science and Engineering C*, **2022**, 112699	8.3	1
206	Micro-galvanic effects of silver-containing titanium implants regulate the immune responses via activating voltage-gated calcium channels in macrophages. *Chemical Engineering Journal*, **2022**, 428, 131068	14.7	0
205	Mg-Fe LDH sealed PEO coating on magnesium for biodegradation control, antibacteria and osteogenesis. *Journal of Materials Science and Technology*, **2022**, 105, 57-67	9.1	5
204	Tuning the surface potential to reprogram immune microenvironment for bone regeneration.. *Biomaterials*, **2022**, 282, 121408	15.6	3
203	Preparation of PEG/ZIF-8@HF drug delivery system for melanoma treatment via oral administration.. *Drug Delivery*, **2022**, 29, 1075-1085	7	1
202	Self-assembled ferric oxyhydroxide nanosheet on PEO-coated magnesium alloy with photocatalytic/photothermal antibacterial and enhanced osteogenesis activities. *Chemical Engineering Journal*, **2022**, 437, 135257	14.7	3
201	In-situ growth of vertical graphene on titanium by PECVD for rapid sterilization under near-infrared light. *Carbon*, **2022**, 192, 209-218	10.4	2
200	Hydroxyapatite composited PEEK with 3D porous surface enhances osteoblast differentiation through mediating NO by macrophage.. *International Journal of Energy Production and Management* , **2022**, 9, rbab076	5.3	3
199	Mechanical Force Induced Self-Assembly of Chinese Herbal Hydrogel with Synergistic Effects of Antibacterial Activity and Immune Regulation for Wound Healing.. *Small*, **2022**, e2201766	11	1
198	CD/PEI/PVA composite hydrogels with superior self-healing ability and antibacterial activity for wound healing. *Composites Part B: Engineering*, **2022**, 238, 109921	10	0
197	Comparison study of Mg(OH)2, Mg-Fe LDH, and FeOOH coatings on PEO-treated Mg alloy in anticorrosion and biocompatibility. *Applied Clay Science*, **2022**, 225, 106535	5.2	0
196	Strontium ranelate incorporated 3D porous sulfonated PEEK simulating MC3T3-E1 cell differentiation. *International Journal of Energy Production and Management*, **2021**, 8, rbaa043	5.3	3
195	Integration of a Metal-Organic Framework Film with a Tubular Whispering-Gallery-Mode Microcavity for Effective CO Sensing. *ACS Applied Materials & Interfaces*, **2021**, 13, 58104-58113	9.5	0
194	Tailoring Time-varying Alkaline Microenvironment on Titanium for Sequential Anti-infection and Osseointegration. *Chemical Engineering Journal*, **2021**, 431, 133940	14.7	4
193	A lithium-doped surface inspires immunomodulatory functions for enhanced osteointegration through PI3K/AKT signaling axis regulation. *Biomaterials Science*, **2021**, 9, 8202-8220	7.4	5
192	Regulation of Ce (III) / Ce (IV) ratio of cerium oxide for antibacterial application. *IScience*, **2021**, 24, 102261	6.1	9

191	A tightly bonded reduced graphene oxide coating on magnesium alloy with photothermal effect for tumor therapy. *Journal of Magnesium and Alloys*, **2021**,	8.8	1
190	Corrosion Behavior and Biocompatibility of Diamond-like Carbon-Coated Zinc: An In Vitro Study. *ACS Omega*, **2021**, 6, 9843-9851	3.9	9
189	Biomedical Implants with Charge-Transfer Monitoring and Regulating Abilities. *Advanced Science*, **2021**, 8, e2004393	13.6	7
188	Biocompatibility and bone regeneration of PEO/Mg-Al LDH-coated pure Mg: an in vitro and in vivo study. *Science China Materials*, **2021**, 64, 460-473	7.1	10
187	Osteogenesis, angiogenesis and immune response of Mg-Al layered double hydroxide coating on pure Mg. *Bioactive Materials*, **2021**, 6, 91-105	16.7	32
186	Why does nitrogen-doped graphene oxide lose the antibacterial activity?. *Journal of Materials Science and Technology*, **2021**, 62, 44-51	9.1	7
185	Co-implantation of magnesium and zinc ions into titanium regulates the behaviors of human gingival fibroblasts. *Bioactive Materials*, **2021**, 6, 64-74	16.7	16
184	Synergistic effects of immunoregulation and osteoinduction of ds-block elements on titanium surface. *Bioactive Materials*, **2021**, 6, 191-207	16.7	14
183	Protection of magnesium alloys: From physical barrier coating to smart self-healing coating. *Journal of Alloys and Compounds*, **2021**, 853, 157010	5.7	40
182	Thermo-sensitive hydrogel on anodized titanium surface to regulate immune response. *Surface and Coatings Technology*, **2021**, 405, 126624	4.4	1
181	Multi-scale hybrid modified coatings on titanium implants for non-cytotoxicity and antibacterial properties. *Nanoscale*, **2021**, 13, 10587-10599	7.7	9
180	A Novel Stimuli-Responsive Injectable Antibacterial Hydrogel to Achieve Synergetic Photothermal/Gene-Targeted Therapy towards Uveal Melanoma. *Advanced Science*, **2021**, 8, e2004721	13.6	9
179	Regulation of extracellular bioactive cations in bone tissue microenvironment induces favorable osteoimmune conditions to accelerate bone regeneration. *Bioactive Materials*, **2021**, 6, 2315-2330	16.7	23
178	Sequential activation of heterogeneous macrophage phenotypes is essential for biomaterials-induced bone regeneration. *Biomaterials*, **2021**, 276, 121038	15.6	13
177	Recent progress in superhydrophobic coating on Mg alloys: A general review. *Journal of Magnesium and Alloys*, **2021**, 9, 1471-1486	8.8	12
176	Enhanced antioxidant capability and osteogenic property of medical titanium by cerium plasma immersion ion implantation. *Surfaces and Interfaces*, **2021**, 26, 101402	4.1	1
175	Regulating corrosion reactions to enhance the anti-corrosion and self-healing abilities of PEO coating on magnesium. *Corrosion Science*, **2021**, 192, 109840	6.8	8
174	An in vitro and in vivo comparison of Mg(OH)-, MgF- and HA-coated Mg in degradation and osteointegration. *Biomaterials Science*, **2020**, 8, 3320-3333	7.4	2

173	ZnO@ZnS nanorod-array coated titanium: Good to fibroblasts but bad to bacteria. *Journal of Colloid and Interface Science*, **2020**, 579, 50-60	9.3	14
172	Improved in vitro angiogenic behavior of human umbilical vein endothelial cells with oxidized polydopamine coating. *Colloids and Surfaces B: Biointerfaces*, **2020**, 194, 111176	6	11
171	Antibacterial Property and Biocompatibility of Polypyrrole Films Treated by Oxygen Plasma Immersion Ion Implantation. *Advanced Materials Interfaces*, **2020**, 7, 2000057	4.6	4
170	Enhanced physicochemical and biological properties of C/Cu dual ions implanted medical titanium. *Bioactive Materials*, **2020**, 5, 377-386	16.7	24
169	A facile and universal strategy to endow implant materials with antibacterial ability via alkalinity disturbing bacterial respiration. *Biomaterials Science*, **2020**, 8, 1815-1829	7.4	20
168	Enhanced corrosion resistance and biocompatibility of magnesium alloy by hydroxyapatite/graphene oxide bilayer coating. *Materials Letters*, **2020**, 264, 127322	3.3	11
167	Antibacterial activity of an NIR-induced Zn ion release film. *Journal of Materials Chemistry B*, **2020**, 8, 406-415	7.3	15
166	Minocycline hydrochloride-loaded graphene oxide films on implant abutments for peri-implantitis treatment in beagle dogs. *Journal of Periodontology*, **2020**, 91, 792-799	4.6	11
165	Interface effects on regulating the behaviors of human gingival fibroblasts on titanium by Zn-PIII. *Surface and Coatings Technology*, **2020**, 403, 126357	4.4	
164	Surface alloyed Ti□r layer constructed on titanium by Zr ion implantation for improving physicochemical and osteogenic properties. *Progress in Natural Science: Materials International*, **2020**, 30, 635-641	3.6	8
163	A tailored positively-charged hydrophobic surface reduces the risk of implant associated infections. *Acta Biomaterialia*, **2020**, 114, 421-430	10.8	10
162	Gold/SH-functionalized nanographene oxide/polyamidamine/poly(ethylene glycol) nanocomposites for enhanced non-enzymatic hydrogen peroxide detection. *Biomaterials Science*, **2020**, 8, 6037-6044	7.4	6
161	Molybdenum disulfide (MoS2) nanosheets vertically coated on titanium for disinfection in the dark. *Arabian Journal of Chemistry*, **2020**, 13, 1612-1623	5.9	18
160	Cell-selective titanium oxide coatings mediated by coupling hafnium-doping and UV pre-illumination. *Arabian Journal of Chemistry*, **2020**, 13, 4210-4217	5.9	1
159	Responses of rat bone marrow mesenchymal stem cells to graphene oxide films with different alkali treatment. *Journal of Materials Research and Technology*, **2019**, 8, 5344-5347	5.5	1
158	A surface-engineered multifunctional TiO based nano-layer simultaneously elevates the corrosion resistance, osteoconductivity and antimicrobial property of a magnesium alloy. *Acta Biomaterialia*, **2019**, 99, 495-513	10.8	20
157	Micro- and Nanohemispherical 3D Imprints Modulate the Osteogenic Differentiation and Mineralization Tendency of Bone Cells. *ACS Applied Materials & Interfaces*, **2019**, 11, 35513-35524	9.5	6
156	In-situ growth of layered double hydroxide films on biomedical magnesium alloy by transforming metal oxyhydroxide. *Applied Surface Science*, **2019**, 496, 143690	6.7	19

155	Nano Textured PEEK Surface for Enhanced Osseointegration. *ACS Biomaterials Science and Engineering*, **2019**, 5, 1279-1289	5.5	8
154	Dose-response relationships between copper and its biocompatibility/antibacterial activities. *Journal of Trace Elements in Medicine and Biology*, **2019**, 55, 127-135	4.1	35
153	Enhanced osteogenic activity and bacteriostatic effect of TiO2 coatings via hydrogen ion implantation. *Materials Letters*, **2019**, 253, 95-98	3.3	6
152	Nanostructural Surfaces with Different Elastic Moduli Regulate the Immune Response by Stretching Macrophages. *Nano Letters*, **2019**, 19, 3480-3489	11.5	34
151	Minocycline hydrochloride loaded graphene oxide enables enhanced osteogenic activity in the presence of Gram-positive bacteria, Staphylococcus aureus. *Journal of Materials Chemistry B*, **2019**, 7, 3590-3598	7.3	5
150	Pravastatin regulates host foreign-body reaction to polyetheretherketone implants via miR-29ab1-mediated SLIT3 upregulation. *Biomaterials*, **2019**, 203, 12-22	15.6	12
149	Enhanced tendon to bone healing in rotator cuff tear by PLLA/CPS composite films prepared by a simple melt-pressing method: An in vitro and in vivo study. *Composites Part B: Engineering*, **2019**, 165, 526-536	10	15
148	Sodium butyrate-modified sulfonated polyetheretherketone modulates macrophage behavior and shows enhanced antibacterial and osteogenic functions during implant-associated infections. *Journal of Materials Chemistry B*, **2019**, 7, 5541-5553	7.3	15
147	Self-adjusting antibacterial properties of Ag-incorporated nanotubes on micro-nanostructured Ti surfaces. *Biomaterials Science*, **2019**, 7, 4075-4087	7.4	16
146	Corrosion Motivated ROS Generation Helps Endow Titanium with Broad-Spectrum Antibacterial Abilities. *Advanced Materials Interfaces*, **2019**, 6, 1900514	4.6	7
145	Regulating the Behavior of Human Gingival Fibroblasts by sp Domains in Reduced Graphene Oxide. *ACS Biomaterials Science and Engineering*, **2019**, 5, 6414-6424	5.5	3
144	Multifunctional sulfonated polyetheretherketone coating with beta-defensin-14 for yielding durable and broad-spectrum antibacterial activity and osseointegration. *Acta Biomaterialia*, **2019**, 86, 323-337	10.8	40
143	Antibacterial ability, cytocompatibility and hemocompatibility of fluorinated graphene. *Colloids and Surfaces B: Biointerfaces*, **2019**, 173, 681-688	6	20
142	Assembled gold nanorods for the photothermal killing of bacteria. *Colloids and Surfaces B: Biointerfaces*, **2019**, 173, 833-841	6	24
141	Graphene oxide as a dual Zn/Mg ion carrier and release platform: enhanced osteogenic activity and antibacterial properties. *Journal of Materials Chemistry B*, **2018**, 6, 2004-2012	7.3	14
140	NIR-Triggered Crystal Phase Transformation of NiTi-Layered Double Hydroxides Films for Localized Chemothermal Tumor Therapy. *Advanced Science*, **2018**, 5, 1700782	13.6	21
139	Bifunctional galvanics mediated selective toxicity on titanium. *Materials Horizons*, **2018**, 5, 264-267	14.4	33
138	Smart release of doxorubicin loaded on polyetheretherketone (PEEK) surface with 3D porous structure. *Colloids and Surfaces B: Biointerfaces*, **2018**, 163, 175-183	6	22

137	Petal effect-inspired superhydrophobic and highly adhesive coating on magnesium with enhanced corrosion resistance and biocompatibility. *Science China Materials*, **2018**, 61, 629-642	7.1	12
136	Layered double hydroxide/poly-dopamine composite coating with surface heparinization on Mg alloys: improved anticorrosion, endothelialization and hemocompatibility. *Biomaterials Science*, **2018**, 6, 1846-1858	7.4	47
135	Regulating the local pH level of titanium via Mg-Fe layered double hydroxides films for enhanced osteogenesis. *Biomaterials Science*, **2018**, 6, 1227-1237	7.4	23
134	Synergistic effects of titania nanotubes and silicon to enhance the osteogenic activity. *Colloids and Surfaces B: Biointerfaces*, **2018**, 171, 419-426	6	9
133	Controllable and durable release of BMP-2-loaded 3D porous sulfonated polyetheretherketone (PEEK) for osteogenic activity enhancement. *Colloids and Surfaces B: Biointerfaces*, **2018**, 171, 668-674	6	27
132	Synergistic Effects of N/Cu Dual Ions Implantation on Stimulating Antibacterial Ability and Angiogenic Activity of Titanium. *ACS Biomaterials Science and Engineering*, **2018**, 4, 3185-3193	5.5	11
131	Achieving stem cell imaging and osteogenic differentiation by using nitrogen doped graphene quantum dots. *Journal of Materials Science: Materials in Medicine*, **2018**, 29, 85	4.5	14
130	Minocycline hydrochloride loaded on titanium by graphene oxide: an excellent antibacterial platform with the synergistic effect of contact-killing and release-killing. *Biomaterials Science*, **2018**, 6, 304-313	7.4	34
129	Effect of Local Alkaline Microenvironment on the Behaviors of Bacteria and Osteogenic Cells. *ACS Applied Materials & Interfaces*, **2018**, 10, 42018-42029	9.5	54
128	PEO/Mg-Zn-Al LDH Composite Coating on Mg Alloy as a Zn/Mg Ion-Release Platform with Multifunctions: Enhanced Corrosion Resistance, Osteogenic, and Antibacterial Activities. *ACS Biomaterials Science and Engineering*, **2018**, 4, 4112-4121	5.5	46
127	The prospect of layered double hydroxide as bone implants: A study of mechanical properties, cytocompatibility and antibacterial activity. *Applied Clay Science*, **2018**, 165, 179-187	5.2	17
126	Combination types between graphene oxide and substrate affect the antibacterial activity. *Bioactive Materials*, **2018**, 3, 341-346	16.7	34
125	Osteogenesis Catalyzed by Titanium-Supported Silver Nanoparticles. *ACS Applied Materials & Interfaces*, **2017**, 9, 5149-5157	9.5	45
124	In vitro and in vivo responses of macrophages to magnesium-doped titanium. *Scientific Reports*, **2017**, 7, 42707	4.9	52
123	Mn-containing titanium surface with favorable osteogenic and antimicrobial functions synthesized by PIII&D. *Colloids and Surfaces B: Biointerfaces*, **2017**, 152, 376-384	6	34
122	Enhanced Bioactivity and Bacteriostasis of Surface Fluorinated Polyetheretherketone. *ACS Applied Materials & Interfaces*, **2017**, 9, 16824-16833	9.5	57
121	How Oxygen-Containing Groups on Graphene Influence the Antibacterial Behaviors. *Advanced Materials Interfaces*, **2017**, 4, 1700228	4.6	39
120	Layer-Number Dependent Antibacterial and Osteogenic Behaviors of Graphene Oxide Electrophoretic Deposited on Titanium. *ACS Applied Materials & Interfaces*, **2017**, 9, 12253-12263	9.5	54

119	M2 macrophages contribute to osteogenesis and angiogenesis on nanotubular TiO surfaces. *Journal of Materials Chemistry B*, **2017**, 5, 3364-3376	7.3	42
118	Peroxidase-Like Activity of Ethylene Diamine Tetraacetic Acid and Its Application for Ultrasensitive Detection of Tumor Biomarkers and Circular Tumor Cells. *Analytical Chemistry*, **2017**, 89, 666-672	7.8	32
117	Multifunctions of dual Zn/Mg ion co-implanted titanium on osteogenesis, angiogenesis and bacteria inhibition for dental implants. *Acta Biomaterialia*, **2017**, 49, 590-603	10.8	146
116	Three-dimensional porous graphene nanosheets synthesized on the titanium surface for osteogenic differentiation of rat bone mesenchymal stem cells. *Carbon*, **2017**, 125, 227-235	10.4	22
115	Sealing the Pores of PEO Coating with Mg-Al Layered Double Hydroxide: Enhanced Corrosion Resistance, Cytocompatibility and Drug Delivery Ability. *Scientific Reports*, **2017**, 7, 8167	4.9	49
114	Butyrate-inserted Ni□i layered double hydroxide film for H2O2-mediated tumor and bacteria killing. *Materials Today*, **2017**, 20, 238-257	21.8	52
113	Band Gap Engineering of Titania Film through Cobalt Regulation for Oxidative Damage of Bacterial Respiration and Viability. *ACS Applied Materials & Interfaces*, **2017**, 9, 27475-27490	9.5	10
112	Si-doped porous TiO coatings enhanced in vitro angiogenic behavior of human umbilical vein endothelial cells. *Colloids and Surfaces B: Biointerfaces*, **2017**, 159, 493-500	6	11
111	Influence of implantation voltage on the biological properties of zinc-implanted titanium. *Surface and Coatings Technology*, **2017**, 312, 75-80	4.4	5
110	Immunomodulatory Effects of Calcium and Strontium Co-Doped Titanium Oxides on Osteogenesis. *Frontiers in Immunology*, **2017**, 8, 1196	8.4	46
109	Silver-nanoparticles-modified biomaterial surface resistant to staphylococcus: new insight into the antimicrobial action of silver. *Scientific Reports*, **2016**, 6, 32699	4.9	68
108	Surface thermal oxidation on titanium implants to enhance osteogenic activity and in vivo osseointegration. *Scientific Reports*, **2016**, 6, 31769	4.9	78
107	Nano-thick calcium oxide armed titanium: boosts bone cells against methicillin-resistant Staphylococcus aureus. *Scientific Reports*, **2016**, 6, 21761	4.9	15
106	Cytocompatibility and antibacterial activity of titania nanotubes incorporated with gold nanoparticles. *Colloids and Surfaces B: Biointerfaces*, **2016**, 145, 597-606	6	35
105	Enhanced osteogenic activity of poly ether ether ketone using calcium plasma immersion ion implantation. *Colloids and Surfaces B: Biointerfaces*, **2016**, 142, 192-198	6	26
104	Influence of sulfur content on bone formation and antibacterial ability of sulfonated PEEK. *Biomaterials*, **2016**, 83, 115-26	15.6	127
103	Enhanced Osseointegration of Hierarchical Micro/Nanotopographic Titanium Fabricated by Microarc Oxidation and Electrochemical Treatment. *ACS Applied Materials & Interfaces*, **2016**, 8, 3840-52	8.5	99
102	Selective responses of human gingival fibroblasts and bacteria on carbon fiber reinforced polyetheretherketone with multilevel nanostructured TiO2. *Biomaterials*, **2016**, 83, 207-18	15.6	66

101	rBMSC and bacterial responses to isoelastic carbon fiber-reinforced poly(ether-ether-ketone) modified by zirconium implantation. *Journal of Materials Chemistry B*, **2016**, 4, 96-104	7.3	11
100	A strontium-incorporated nanoporous titanium implant surface for rapid osseointegration. *Nanoscale*, **2016**, 8, 5291-301	7.7	100
99	Silicon-Doped Titanium Dioxide Nanotubes Promoted Bone Formation on Titanium Implants. *International Journal of Molecular Sciences*, **2016**, 17, 292	6.3	40
98	Restoring the osteogenic activity of bacterial debris contaminated titanium by doping with magnesium. *RSC Advances*, **2016**, 6, 113395-113404	3.7	1
97	Antibacterial ability and hemocompatibility of graphene functionalized germanium. *Scientific Reports*, **2016**, 6, 37474	4.9	35
96	Enhanced Corrosion Resistance and Biocompatibility of Magnesium Alloy by Mg-Al-Layered Double Hydroxide. *ACS Applied Materials & Interfaces*, **2016**, 8, 35033-35044	9.5	124
95	Tantalum implanted entangled porous titanium promotes surface osseointegration and bone ingrowth. *Scientific Reports*, **2016**, 6, 26248	4.9	37
94	Antimicrobial activity of tantalum oxide coatings decorated with Ag nanoparticles. *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, **2016**, 34, 04C102	2.9	13
93	Enhanced osteogenic and selective antibacterial activities on micro-/nano-structured carbon fiber reinforced polyetheretherketone. *Journal of Materials Chemistry B*, **2016**, 4, 2944-2953	7.3	9
92	Antimicrobial and osteogenic properties of iron-doped titanium. *RSC Advances*, **2016**, 6, 46495-46507	3.7	6
91	Antibacterial activity, osteogenic and angiogenic behaviors of copper-bearing titanium synthesized by PIII&D. *Journal of Materials Chemistry B*, **2016**, 4, 1296-1309	7.3	28
90	Antibacterial Surface Design of Titanium-Based Biomaterials for Enhanced Bacteria-Killing and Cell-Assisting Functions Against Periprosthetic Joint Infection. *ACS Applied Materials & Interfaces*, **2016**, 8, 11162-78	9.5	83
89	In Vitro and in Vivo Evaluation of Silicate-Coated Polyetheretherketone Fabricated by Electron Beam Evaporation. *ACS Applied Materials & Interfaces*, **2016**, 8, 13197-206	9.5	28
88	Schottky barrier dependent antimicrobial efficacy of silver nanoparticles. *Materials Letters*, **2016**, 179, 1-4	3.3	7
87	Oxidative stress-mediated selective antimicrobial ability of nano-VO2 against Gram-positive bacteria for environmental and biomedical applications. *Nanoscale*, **2016**, 8, 11907-23	7.7	54
86	Dual ions implantation of zirconium and nitrogen into magnesium alloys for enhanced corrosion resistance, antimicrobial activity and biocompatibility. *Colloids and Surfaces B: Biointerfaces*, **2016**, 148, 200-210	6	25
85	Poly(styrenesulfonate)-Modified Ni-Ti Layered Double Hydroxide Film: A Smart Drug-Eluting Platform. *ACS Applied Materials & Interfaces*, **2016**, 8, 24491-501	9.5	19
84	Enhanced osteointegration on tantalum-implanted polyetheretherketone surface with bone-like elastic modulus. *Biomaterials*, **2015**, 51, 173-183	15.6	152

83	Strontium delivery on topographical titanium to enhance bioactivity and osseointegration in osteoporotic rats. *Journal of Materials Chemistry B*, **2015**, 3, 4790-4804	7.3	30
82	Balancing the Osteogenic and Antibacterial Properties of Titanium by Codoping of Mg and Ag: An in Vitro and in Vivo Study. *ACS Applied Materials & Interfaces*, **2015**, 7, 17826-36	9.5	58
81	Calcium Plasma Implanted Titanium Surface with Hierarchical Microstructure for Improving the Bone Formation. *ACS Applied Materials & Interfaces*, **2015**, 7, 13053-61	9.5	72
80	Zn/Ag micro-galvanic couples formed on titanium and osseointegration effects in the presence of S.□aureus. *Biomaterials*, **2015**, 65, 22-31	15.6	76
79	Antimicrobial and osteogenic properties of silver-ion-implanted stainless steel. *ACS Applied Materials & Interfaces*, **2015**, 7, 10785-94	9.5	58
78	Graphene film-functionalized germanium as a chemically stable, electrically conductive, and biologically active substrate. *Journal of Materials Chemistry B*, **2015**, 3, 1544-1555	7.3	12
77	Nanoporous SiO2/TiO2 composite coating for orthopedic application. *Materials Letters*, **2015**, 152, 53-56	3.3	5
76	In vitro degradation behavior and cytocompatibility of biodegradable AZ31 alloy with PEO/HT composite coating. *Colloids and Surfaces B: Biointerfaces*, **2015**, 128, 44-54	6	42
75	Selective Tumor Cell Inhibition Effect of Ni-Ti Layered Double Hydroxides Thin Films Driven by the Reversed pH Gradients of Tumor Cells. *ACS Applied Materials & Interfaces*, **2015**, 7, 7843-54	9.5	33
74	CVD Growth of Graphene on NiTi Alloy for Enhanced Biological Activity. *ACS Applied Materials & Interfaces*, **2015**, 7, 19876-81	9.5	48
73	Cytocompatibility of Si-incorporated TiO2 nanopores films. *Colloids and Surfaces B: Biointerfaces*, **2015**, 133, 214-20	6	8
72	Surface modification of biodegradable magnesium and its alloys for biomedical applications. *International Journal of Energy Production and Management*, **2015**, 2, 135-51	5.3	108
71	Nanoporous SiO2/TiO2 coating with enhanced interfacial compatibility for orthopedic applications. *Applied Surface Science*, **2015**, 355, 999-1006	6.7	2
70	In vitro degradation, hemolysis, and cytocompatibility of PEO/PLLA composite coating on biodegradable AZ31 alloy. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2015**, 103, 342-54	3.5	39
69	Hierarchical micro/nanostructured titanium with balanced actions to bacterial and mammalian cells for dental implants. *International Journal of Nanomedicine*, **2015**, 10, 6659-74	7.3	45
68	Ag-plasma modification enhances bone apposition around titanium dental implants: an animal study in Labrador dogs. *International Journal of Nanomedicine*, **2015**, 10, 653-64	7.3	24
67	Antibacterial activity of large-area monolayer graphene film manipulated by charge transfer. *Scientific Reports*, **2014**, 4, 4359	4.9	281
66	Spacing-Dependent Antimicrobial Efficacy of Immobilized Silver Nanoparticles. *Journal of Physical Chemistry Letters*, **2014**, 5, 743-8	6.4	22

65	Chemically regulated bioactive ion delivery platform on a titanium surface for sustained controlled release. *Journal of Materials Chemistry B*, **2014**, 2, 283-294	7.3	31
64	Plasmonic gold nanoparticles modified titania nanotubes for antibacterial application. *Applied Physics Letters*, **2014**, 104, 261110	3.4	55
63	Multifunctional Mn-containing titania coatings with enhanced corrosion resistance, osteogenesis and antibacterial activity. *Journal of Materials Chemistry B*, **2014**, 2, 5397-5408	7.3	42
62	Selective biofunctional modification of titanium implants for osteogenic and antibacterial applications. *Journal of Materials Chemistry B*, **2014**, 2, 7475-7487	7.3	20
61	Alkali-treated titanium selectively regulating biological behaviors of bacteria, cancer cells and mesenchymal stem cells. *Journal of Colloid and Interface Science*, **2014**, 436, 160-70	9.3	38
60	In vitro and in vivo anti-biofilm effects of silver nanoparticles immobilized on titanium. *Biomaterials*, **2014**, 35, 9114-25	15.6	173
59	Synergistic effects of dual Zn/Ag ion implantation in osteogenic activity and antibacterial ability of titanium. *Biomaterials*, **2014**, 35, 7699-713	15.6	276
58	Antibacterial property, angiogenic and osteogenic activity of Cu-incorporated TiO coating. *Journal of Materials Chemistry B*, **2014**, 2, 6738-6748	7.3	62
57	Enhanced osteoblast responses to poly ether ether ketone surface modified by water plasma immersion ion implantation. *Colloids and Surfaces B: Biointerfaces*, **2014**, 117, 89-97	6	41
56	Multilevel surface engineering of nanostructured TiO2 on carbon-fiber-reinforced polyetheretherketone. *Biomaterials*, **2014**, 35, 5731-40	15.6	64
55	Stimulation of bone growth following zinc incorporation into biomaterials. *Biomaterials*, **2014**, 35, 6882-97	15.6	191
54	Antibacterial activity and cytocompatibility of titanium oxide coating modified by iron ion implantation. *Acta Biomaterialia*, **2014**, 10, 4505-17	10.8	48
53	Existence, release, and antibacterial actions of silver nanoparticles on Ag-PIII TiO films with different nanotopographies. *International Journal of Nanomedicine*, **2014**, 9, 3389-402	7.3	23
52	Vacuum extraction enhances rhPDGF-BB immobilization on nanotubes to improve implant osseointegration in ovariectomized rats. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2014**, 10, 1809-18	6	32
51	Hemocompatibility and selective cell fate of polydopamine-assisted heparinized PEO/PLLA composite coating on biodegradable AZ31 alloy. *Colloids and Surfaces B: Biointerfaces*, **2014**, 121, 451-60	6	40
50	Osteogenic activity and antibacterial effect of zinc ion implanted titanium. *Colloids and Surfaces B: Biointerfaces*, **2014**, 117, 158-65	6	161
49	Antimicrobial activity and cytocompatibility of Ag plasma-modified hierarchical TiO2 film on titanium surface. *Colloids and Surfaces B: Biointerfaces*, **2014**, 113, 134-45	6	64
48	Cellular responses to titanium successively treated by magnesium and silver PIII&D. *Surface and Coatings Technology*, **2014**, 256, 9-14	4.4	11

47	Plasma-Sprayed Ceramic Coatings for Osseointegration. *International Journal of Applied Ceramic Technology*, **2013**, 10, 1-10	2	27
46	Enhanced bioactivity and bacteriostasis effect of TiO2 nanofilms with favorable biomimetic architectures on titanium surface. *RSC Advances*, **2013**, 3, 11214	3.7	36
45	Electron storage mediated dark antibacterial action of bound silver nanoparticles: smaller is not always better. *Acta Biomaterialia*, **2013**, 9, 5100-10	10.8	102
44	Osteogenic activity and antibacterial effects on titanium surfaces modified with Zn-incorporated nanotube arrays. *Biomaterials*, **2013**, 34, 3467-78	15.6	233
43	The synergistic effect of hierarchical micro/nano-topography and bioactive ions for enhanced osseointegration. *Biomaterials*, **2013**, 34, 3184-95	15.6	238
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