

Kelvin Wk Yeung

List of Publications by Year in Descending Order

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

186 papers	10,804 citations	55 h-index	97 g-index
192 ext. papers	13,783 ext. citations	10 avg, IF	6.79 L-index

#	Paper	IF	Citations
186	Divalent metal cations stimulate skeleton interoception for new bone formation in mouse injury models.. <i>Nature Communications</i> , 2022 , 13, 535	17.4	2
185	Magnesium cationic cue enriched interfacial tissue microenvironment nurtures the osseointegration of gamma-irradiated allograft bone.. <i>Bioactive Materials</i> , 2022 , 10, 32-47	16.7	1
184	Engineering stem cells to produce exosomes with enhanced bone regeneration effects: an alternative strategy for gene therapy.. <i>Journal of Nanobiotechnology</i> , 2022 , 20, 135	9.4	1
183	Microwave assisted antibacterial action of Garcinia nanoparticles on Gram-negative bacteria.. <i>Nature Communications</i> , 2022 , 13, 2461	17.4	7
182	SARS-CoV-2 infection induces inflammatory bone loss in golden Syrian hamsters.. <i>Nature Communications</i> , 2022 , 13, 2539	17.4	2
181	The Development of a Magnesium-Releasing and Long-Term Mechanically Stable Calcium Phosphate Bone Cement Possessing Osteogenic and Immunomodulation Effects for Promoting Bone Fracture Regeneration.. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021 , 9, 803723	5.8	1
180	Biomimicking Bone-Implant Interface Facilitates the Bioadaptation of a New Degradable Magnesium Alloy to the Bone Tissue Microenvironment. <i>Advanced Science</i> , 2021 , 8, e2102035	13.6	6
179	Regulation of macrophage polarization through surface topography design to facilitate implant-to-bone osteointegration. <i>Science Advances</i> , 2021 , 7,	14.3	41
178	TRPM7 kinase-mediated immunomodulation in macrophage plays a central role in magnesium ion-induced bone regeneration. <i>Nature Communications</i> , 2021 , 12, 2885	17.4	22
177	Enhanced Near-Infrared Photocatalytic Eradication of MRSA Biofilms and Osseointegration Using Oxide Perovskite-Based P-N Heterojunction. <i>Advanced Science</i> , 2021 , 8, e2002211	13.6	11
176	Rapid bacteria capturing and killing by AgNPs/N-CD@ZnO hybrids strengthened photo-responsive xerogel for rapid healing of bacteria-infected wounds. <i>Chemical Engineering Journal</i> , 2021 , 414, 128805	14.7	22
175	Phototherapy-strengthened photocatalytic activity of polydopamine-modified metal-organic frameworks for rapid therapy of bacteria-infected wounds. <i>Journal of Materials Science and Technology</i> , 2021 , 62, 83-95	9.1	48
174	Photo-controlled degradation of PLGA/TiC hybrid coating on Mg-Sr alloy using near infrared light. <i>Bioactive Materials</i> , 2021 , 6, 568-578	16.7	13
173	Stepwise 3D-spatio-temporal magnesium cationic niche: Nanocomposite scaffold mediated microenvironment for modulating intramembranous ossification. <i>Bioactive Materials</i> , 2021 , 6, 503-519	16.7	10
172	AgPO decorated black urchin-like defective TiO for rapid and long-term bacteria-killing under visible light. <i>Bioactive Materials</i> , 2021 , 6, 1575-1587	16.7	50
171	Ultrasonic Interfacial Engineering of Red Phosphorous-Metal for Eradicating MRSA Infection Effectively. <i>Advanced Materials</i> , 2021 , 33, e2006047	24	41
170	Enhanced photocatalytic and photothermal properties of ecofriendly metal-organic framework heterojunction for rapid sterilization. <i>Chemical Engineering Journal</i> , 2021 , 405, 126730	14.7	49

169	Antibacterial Hybrid Hydrogels. <i>Macromolecular Bioscience</i> , 2021 , 21, e2000252	5.5	23
168	Rapid bacterial elimination achieved by sonodynamic Au@CuO hybrid nanocubes. <i>Nanoscale</i> , 2021 , 13, 15699-15710	7.7	4
167	The recent progress on metal-organic frameworks for phototherapy. <i>Chemical Society Reviews</i> , 2021 , 50, 5086-5125	58.5	96
166	Photothermal-controlled sustainable degradation of protective coating modified Mg alloy using near-infrared light. <i>Rare Metals</i> , 2021 , 40, 2538-2551	5.5	5
165	Interfacial engineering of BiS/TiCT MXene based on work function for rapid photo-excited bacteria-killing. <i>Nature Communications</i> , 2021 , 12, 1224	17.4	82
164	Regulation of extracellular bioactive cations in bone tissue microenvironment induces favorable osteoimmune conditions to accelerate bone regeneration. <i>Bioactive Materials</i> , 2021 , 6, 2315-2330	16.7	23
163	Sequential activation of heterogeneous macrophage phenotypes is essential for biomaterials-induced bone regeneration. <i>Biomaterials</i> , 2021 , 276, 121038	15.6	13
162	2D MOF Periodontitis Photodynamic Ion Therapy. <i>Journal of the American Chemical Society</i> , 2021 , 143, 15427-15439	16.4	36
161	Material-herbology: An effective and safe strategy to eradicate lethal viral-bacterial pneumonia. <i>Matter</i> , 2021 , 4, 3030-3048	12.7	6
160	Plasma surface modifications of orthopedic biomaterials by the adoption of bioinorganic cations: a review. <i>Surface Innovations</i> , 2020 , 8, 203-215	1.9	5
159	A Z-scheme heterojunction of ZnO/CDots/C3N4 for strengthened photoresponsive bacteria-killing and acceleration of wound healing. <i>Journal of Materials Science and Technology</i> , 2020 , 57, 1-11	9.1	38
158	Overcoming Multidrug-Resistant MRSA Using Conventional Aminoglycoside Antibiotics. <i>Advanced Science</i> , 2020 , 7, 1902070	13.6	30
157	Near-Infrared Light Triggered Phototherapy and Immunotherapy for Elimination of Methicillin-Resistant Biofilm Infection on Bone Implant. <i>ACS Nano</i> , 2020 , 14, 8157-8170	16.7	67
156	Ce and Er Co-doped TiO for rapid bacteria- killing using visible light. <i>Bioactive Materials</i> , 2020 , 5, 201-209	16.7	37
155	Rapid bacteria trapping and killing of metal-organic frameworks strengthened photo-responsive hydrogel for rapid tissue repair of bacterial infected wounds. <i>Chemical Engineering Journal</i> , 2020 , 396, 125194	14.7	77
154	Engineered probiotics biofilm enhances osseointegration via immunoregulation and anti-infection. <i>Science Advances</i> , 2020 , 6,	14.3	34
153	Modulation of the mechanosensing of mesenchymal stem cells by laser-induced patterning for the acceleration of tissue reconstruction through the Wnt/ β -catenin signaling pathway activation. <i>Acta Biomaterialia</i> , 2020 , 101, 152-167	10.8	32
152	Zn-assisted photothermal therapy for rapid bacteria-killing using biodegradable humic acid encapsulated MOFs. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020 , 188, 110781	6	24

151	Photoresponsive Materials for Antibacterial Applications. <i>Cell Reports Physical Science</i> , 2020 , 1, 100245	6.1	50
150	Photoelectrons Mediating Angiogenesis and Immunotherapy through Heterojunction Film for Noninvasive Disinfection. <i>Advanced Science</i> , 2020 , 7, 2000023	13.6	18
149	A tailored positively-charged hydrophobic surface reduces the risk of implant associated infections. <i>Acta Biomaterialia</i> , 2020 , 114, 421-430	10.8	10
148	Treatment of MRSA-infected osteomyelitis using bacterial capturing, magnetically targeted composites with microwave-assisted bacterial killing. <i>Nature Communications</i> , 2020 , 11, 4446	17.4	79
147	Near-infrared light controlled fast self-healing protective coating on magnesium alloy. <i>Corrosion Science</i> , 2020 , 163, 108257	6.8	27
146	Photo-responsive chitosan/Ag/MoS for rapid bacteria-killing. <i>Journal of Hazardous Materials</i> , 2020 , 383, 121122	12.8	91
145	Enhanced photocatalytic activity and photothermal effects of Cu-doped metal-organic frameworks for rapid treatment of bacteria-infected wounds. <i>Applied Catalysis B: Environmental</i> , 2020 , 261, 118248	21.8	140
144	Rapid Biofilm Elimination on Bone Implants Using Near-Infrared-Activated Inorganic Semiconductor Heterostructures. <i>Advanced Healthcare Materials</i> , 2019 , 8, e1900835	10.1	44
143	3D-printed nanocomposite scaffolds with tunable magnesium ionic microenvironment induce in situ bone tissue regeneration. <i>Applied Materials Today</i> , 2019 , 16, 493-507	6.6	20
142	Electrospun chitosan/PVA/bioglass Nanofibrous membrane with spatially designed structure for accelerating chronic wound healing. <i>Materials Science and Engineering C</i> , 2019 , 105, 110083	8.3	46
141	AgBr Nanoparticles in Situ Growth on 2D MoS Nanosheets for Rapid Bacteria-Killing and Photodisinfection. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 34364-34375	9.5	39
140	A surface-engineered multifunctional TiO ₂ based nano-layer simultaneously elevates the corrosion resistance, osteoconductivity and antimicrobial property of a magnesium alloy. <i>Acta Biomaterialia</i> , 2019 , 99, 495-513	10.8	20
139	Micro- and Nanohemispherical 3D Imprints Modulate the Osteogenic Differentiation and Mineralization Tendency of Bone Cells. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 35513-35524	9.5	6
138	Zinc-doped Prussian blue enhances photothermal clearance of Staphylococcus aureus and promotes tissue repair in infected wounds. <i>Nature Communications</i> , 2019 , 10, 4490	17.4	170
137	Metal-Organic Frameworks Incorporated Polycaprolactone Film for Enhanced Corrosion Resistance and Biocompatibility of Mg Alloy. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 18114-18124	8.3	29
136	Nano Textured PEEK Surface for Enhanced Osseointegration. <i>ACS Biomaterials Science and Engineering</i> , 2019 , 5, 1279-1289	5.5	8
135	Enhancing the antibacterial efficacy of low-dose gentamicin with 5 minute assistance of phototherapy at 50 °C. <i>Biomaterials Science</i> , 2019 , 7, 1437-1447	7.4	44
134	The enhanced photocatalytic properties of MnO ₂ /g-CN heterostructure for rapid sterilization under visible light. <i>Journal of Hazardous Materials</i> , 2019 , 377, 227-236	12.8	73

133	Near-infrared light photocatalysis and phototherapy of carbon quantum dots and au nanoparticles loaded titania nanotube array. <i>Materials and Design</i> , 2019 , 177, 107845	8.1	38
132	Local Photothermal/Photodynamic Synergistic Therapy by Disrupting Bacterial Membrane To Accelerate Reactive Oxygen Species Permeation and Protein Leakage. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 17902-17914	9.5	88
131	Rapid and Superior Bacteria Killing of Carbon Quantum Dots/ZnO Decorated Injectable Folic Acid-Conjugated PDA Hydrogel through Dual-Light Triggered ROS and Membrane Permeability. <i>Small</i> , 2019 , 15, e1900322	11	105
130	Minocycline hydrochloride loaded graphene oxide enables enhanced osteogenic activity in the presence of Gram-positive bacteria, <i>Staphylococcus aureus</i> . <i>Journal of Materials Chemistry B</i> , 2019 , 7, 3590-3598	7.3	5
129	Eradicating Multidrug-Resistant Bacteria Rapidly Using a Multi Functional g-C3N4@ Bi2S3 Nanorod Heterojunction with or without Antibiotics. <i>Advanced Functional Materials</i> , 2019 , 29, 1900946	15.6	79
128	Photocatalysis: Light-Activated Rapid Disinfection by Accelerated Charge Transfer in Red Phosphorus/ZnO Heterointerface (Small Methods 3/2019). <i>Small Methods</i> , 2019 , 3, 1970008	12.8	3
127	The effects of a phytic acid/calcium ion conversion coating on the corrosion behavior and osteoinductivity of a magnesium-strontium alloy. <i>Applied Surface Science</i> , 2019 , 484, 511-523	6.7	20
126	A surface-engineered polyetheretherketone biomaterial implant with direct and immunoregulatory antibacterial activity against methicillin-resistant <i>Staphylococcus aureus</i> . <i>Biomaterials</i> , 2019 , 208, 8-20	15.6	64
125	Rapid and Highly Effective Noninvasive Disinfection by Hybrid Ag/CS@MnO Nanosheets Using Near-Infrared Light. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 15014-15027	9.5	59
124	Fundamental Theory of Biodegradable MetalsDefinition, Criteria, and Design. <i>Advanced Functional Materials</i> , 2019 , 29, 1805402	15.6	111
123	Light-Activated Rapid Disinfection by Accelerated Charge Transfer in Red Phosphorus/ZnO Heterointerface. <i>Small Methods</i> , 2019 , 3, 1900048	12.8	48
122	Lysozyme-Assisted Photothermal Eradication of Methicillin-Resistant Infection and Accelerated Tissue Repair with Natural Melanosome Nanostructures. <i>ACS Nano</i> , 2019 , 13, 11153-11167	16.7	49
121	Sodium butyrate-modified sulfonated polyetheretherketone modulates macrophage behavior and shows enhanced antibacterial and osteogenic functions during implant-associated infections. <i>Journal of Materials Chemistry B</i> , 2019 , 7, 5541-5553	7.3	15
120	Dual Metal-Organic Framework Heterointerface. <i>ACS Central Science</i> , 2019 , 5, 1591-1601	16.8	65
119	A near infrared-activated photocatalyst based on elemental phosphorus by chemical vapor deposition. <i>Applied Catalysis B: Environmental</i> , 2019 , 258, 117980	21.8	22
118	Highly Effective and Noninvasive Near-Infrared Eradication of a Biofilm on Implants by a Photoresponsive Coating within 20 Min. <i>Advanced Science</i> , 2019 , 6, 1900599	13.6	142
117	Superimposed surface plasma resonance effect enhanced the near-infrared photocatalytic activity of Au@BiWO coating for rapid bacterial killing. <i>Journal of Hazardous Materials</i> , 2019 , 380, 120818	12.8	50
116	A functionalized TiO/MgTiO nano-layer on biodegradable magnesium implant enables superior bone-implant integration and bacterial disinfection. <i>Biomaterials</i> , 2019 , 219, 119372	15.6	46

115	Photoelectric-Responsive Extracellular Matrix for Bone Engineering. <i>ACS Nano</i> , 2019 , 13, 13581-13594	16.7	27
114	Temperature-responsive tungsten doped vanadium dioxide thin film starves bacteria to death. <i>Materials Today</i> , 2019 , 22, 35-49	21.8	18
113	"Imitative" click chemistry to form a sticking xerogel for the portable therapy of bacteria-infected wounds. <i>Biomaterials Science</i> , 2019 , 7, 5383-5387	7.4	12
112	Construction of TiO ₂ /silane nanofilm on AZ31 magnesium alloy for controlled degradability and enhanced biocompatibility. <i>Rare Metals</i> , 2019 , 38, 588-600	5.5	16
111	Calcium carbonate unit realignment under acidification: A potential compensatory mechanism in an edible estuarine oyster. <i>Marine Pollution Bulletin</i> , 2019 , 139, 141-149	6.7	17
110	Mechanical and Clinical Evaluation of a Shape Memory Alloy and Conventional Struts in a Flexible Scoliotic Brace. <i>Annals of Biomedical Engineering</i> , 2018 , 46, 1194-1205	4.7	7
109	Repeatable Photodynamic Therapy with Triggered Signaling Pathways of Fibroblast Cell Proliferation and Differentiation To Promote Bacteria-Accompanied Wound Healing. <i>ACS Nano</i> , 2018 , 12, 1747-1759	16.7	209
108	Valence State Manipulation of Cerium Oxide Nanoparticles on a Titanium Surface for Modulating Cell Fate and Bone Formation. <i>Advanced Science</i> , 2018 , 5, 1700678	13.6	63
107	In Situ Disinfection through Photoinspired Radical Oxygen Species Storage and Thermal-Triggered Release from Black Phosphorous with Strengthened Chemical Stability. <i>Small</i> , 2018 , 14, 1703197	11	98
106	Infection-prevention on Ti implants by controlled drug release from folic acid/ZnO quantum dots sealed titania nanotubes. <i>Materials Science and Engineering C</i> , 2018 , 85, 214-224	8.3	49
105	Electrophoretic Deposited Stable Chitosan@MoS Coating with Rapid In Situ Bacteria-Killing Ability under Dual-Light Irradiation. <i>Small</i> , 2018 , 14, e1704347	11	125
104	Construction of perfluorohexane/IR780@liposome coating on Ti for rapid bacteria killing under permeable near infrared light. <i>Biomaterials Science</i> , 2018 , 6, 2460-2471	7.4	19
103	Controlled-temperature photothermal and oxidative bacteria killing and acceleration of wound healing by polydopamine-assisted Au-hydroxyapatite nanorods. <i>Acta Biomaterialia</i> , 2018 , 77, 352-364	10.8	111
102	Precisely controlled delivery of magnesium ions thru sponge-like monodisperse PLGA/nano-MgO-alginate core-shell microsphere device to enable in-situ bone regeneration. <i>Biomaterials</i> , 2018 , 174, 1-16	15.6	92
101	Zinc-Modified Sulfonated Polyetheretherketone Surface with Immunomodulatory Function for Guiding Cell Fate and Bone Regeneration. <i>Advanced Science</i> , 2018 , 5, 1800749	13.6	102
100	Tuning the Bandgap of Photo-Sensitive Polydopamine/AgPO/Graphene Oxide Coating for Rapid, Noninvasive Disinfection of Implants. <i>ACS Central Science</i> , 2018 , 4, 724-738	16.8	168
99	Rapid Biofilm Eradication on Bone Implants Using Red Phosphorus and Near-Infrared Light. <i>Advanced Materials</i> , 2018 , 30, e1801808	24	256
98	A combined coating strategy based on atomic layer deposition for enhancement of corrosion resistance of AZ31 magnesium alloy. <i>Applied Surface Science</i> , 2018 , 434, 1101-1111	6.7	44

97	Rapid Sterilization and Accelerated Wound Healing Using Zn ²⁺ and Graphene Oxide Modified g-C ₃ N ₄ under Dual Light Irradiation. <i>Advanced Functional Materials</i> , 2018 , 28, 1800299	15.6	173
96	Ocean acidification reduces hardness and stiffness of the Portuguese oyster shell with impaired microstructure: a hierarchical analysis. <i>Biogeosciences</i> , 2018 , 15, 6833-6846	4.6	21
95	Contribution of the in situ release of endogenous cations from xenograft bone driven by fluoride incorporation toward enhanced bone regeneration. <i>Biomaterials Science</i> , 2018 , 6, 2951-2964	7.4	16
94	Noninvasive rapid bacteria-killing and acceleration of wound healing through photothermal/photodynamic/copper ion synergistic action of a hybrid hydrogel. <i>Biomaterials Science</i> , 2018 , 6, 2110-2121	7.4	110
93	Ag/AgBr-loaded mesoporous silica for rapid sterilization and promotion of wound healing. <i>Biomaterials Science</i> , 2018 , 6, 1735-1744	7.4	50
92	Development and Antibacterial Performance of Novel Polylactic Acid-Graphene Oxide-Silver Nanoparticle Hybrid Nanocomposite Mats Prepared By Electrospinning. <i>ACS Biomaterials Science and Engineering</i> , 2017 , 3, 471-486	5.5	98
91	Functionalized Polymeric Membrane with Enhanced Mechanical and Biological Properties to Control the Degradation of Magnesium Alloy. <i>Advanced Healthcare Materials</i> , 2017 , 6, 1601269	10.1	32
90	Controlled release and biocompatibility of polymer/titania nanotube array system on titanium implants. <i>Bioactive Materials</i> , 2017 , 2, 44-50	16.7	44
89	Anti-biofouling function of amorphous nano-TaO coating for VO-based intelligent windows. <i>Nanotechnology</i> , 2017 , 28, 175705	3.4	4
88	Biomaterials based strategies for rotator cuff repair. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017 , 157, 407-416	6	20
87	Sr/ZnO doped titania nanotube array: An effective surface system with excellent osteoinductivity and self-antibacterial activity. <i>Materials and Design</i> , 2017 , 130, 403-412	8.1	30
86	Porous Iron-Carboxylate Metal-Organic Framework: A Novel Bioplatfrom with Sustained Antibacterial Efficacy and Nontoxicity. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 19248-19257	9.5	73
85	Bone grafts and biomaterials substitutes for bone defect repair: A review. <i>Bioactive Materials</i> , 2017 , 2, 224-247	16.7	704
84	Biofunctionalization of carbon nanotubes/chitosan hybrids on Ti implants by atom layer deposited ZnO nanostructures. <i>Applied Surface Science</i> , 2017 , 400, 14-23	6.7	79
83	Balancing Bacteria-Osteoblast Competition through Selective Physical Puncture and Biofunctionalization of ZnO/Polydopamine/Arginine-Glycine-Aspartic Acid-Cysteine Nanorods. <i>ACS Nano</i> , 2017 , 11, 11250-11263	16.7	178
82	Tannic Acid/Fe/Ag Nanofilm Exhibiting Superior Photodynamic and Physical Antibacterial Activity. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 39657-39671	9.5	55
81	Photo-Inspired Antibacterial Activity and Wound Healing Acceleration by Hydrogel Embedded with Ag/Ag@AgCl/ZnO Nanostructures. <i>ACS Nano</i> , 2017 , 11, 9010-9021	16.7	416
80	Self-Assembled Injectable Nanocomposite Hydrogels Stabilized by Bisphosphonate-Magnesium (Mg ²⁺) Coordination Regulates the Differentiation of Encapsulated Stem Cells via Dual Crosslinking. <i>Advanced Functional Materials</i> , 2017 , 27, 1701642	15.6	84

79	Synergistic Bacteria Killing through Photodynamic and Physical Actions of Graphene Oxide/Ag/Collagen Coating. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 26417-26428	9.5	173
78	Band Gap Engineering of Titania Film through Cobalt Regulation for Oxidative Damage of Bacterial Respiration and Viability. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 27475-27490	9.5	10
77	Bone Grafts and Bone Substitutes for Bone Defect Management 2017 , 495-545		2
76	Maturation of glutamatergic transmission in the vestibulo-olivary pathway impacts on the registration of head rotational signals in the brainstem of rats. <i>Brain Structure and Function</i> , 2016 , 221, 217-38	4	5
75	Development of novel implants with self-antibacterial performance through in-situ growth of 1D ZnO nanowire. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016 , 141, 623-633	6	22
74	Preparation of polyetheretherketone composites with nanohydroxyapatite rods and carbon nanofibers having high strength, good biocompatibility and excellent thermal stability. <i>RSC Advances</i> , 2016 , 6, 19417-19429	3.7	30
73	Plasma Surface Functionalized Polyetheretherketone for Enhanced Osseo-Integration at Bone-Implant Interface. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 3901-11	9.5	44
72	Interfacial Fast Release Layer in Monodisperse Poly (lactic-co-glycolic acid) Microspheres Accelerates the Drug Release. <i>Current Drug Delivery</i> , 2016 , 13, 720-9	3.2	4
71	Novel Electrospun Polylactic Acid Nanocomposite Fiber Mats with Hybrid Graphene Oxide and Nanohydroxyapatite Reinforcements Having Enhanced Biocompatibility. <i>Polymers</i> , 2016 , 8,	4.5	66
70	Polyetheretherketone Hybrid Composites with Bioactive Nanohydroxyapatite and Multiwalled Carbon Nanotube Fillers. <i>Polymers</i> , 2016 , 8,	4.5	26
69	Nanocarrier-Mediated Codelivery of Small Molecular Drugs and siRNA to Enhance Chondrogenic Differentiation and Suppress Hypertrophy of Human Mesenchymal Stem Cells. <i>Advanced Functional Materials</i> , 2016 , 26, 2463-2472	15.6	37
68	Surface functionalization of biomaterials by radical polymerization. <i>Progress in Materials Science</i> , 2016 , 83, 191-235	42.2	99
67	Polypropylene Biocomposites with Boron Nitride and Nanohydroxyapatite Reinforcements. <i>Materials</i> , 2015 , 8, 992-1008	3.5	20
66	Melt-compounded polylactic acid composite hybrids with hydroxyapatite nanorods and silver nanoparticles: biodegradation, antibacterial ability, bioactivity and cytotoxicity. <i>RSC Advances</i> , 2015 , 5, 72288-72299	3.7	29
65	Silver nanoparticles promote osteogenesis of mesenchymal stem cells and improve bone fracture healing in osteogenesis mechanism mouse model. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2015 , 11, 1949-59	6	110
64	Osteogenic ability of Cu-bearing stainless steel. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2015 , 103, 1433-44	3.5	42
63	Strontium exerts dual effects on calcium phosphate cement: Accelerating the degradation and enhancing the osteoconductivity both in vitro and in vivo. <i>Journal of Biomedical Materials Research - Part A</i> , 2015 , 103, 1613-21	5.4	36
62	Self-assembled magnetic fluorescent polymeric micelles for magnetic resonance and optical imaging. <i>Biomaterials</i> , 2014 , 35, 344-55	15.6	66

61	Fabrication and characterization of biomimetic multichanneled crosslinked-urethane-doped polyester tissue engineered nerve guides. <i>Journal of Biomedical Materials Research - Part A</i> , 2014 , 102, 2793-804	5.4	32
60	Stringent requirement for spatial arrangement of extracellular matrix in supporting cell morphogenesis and differentiation. <i>BMC Cell Biology</i> , 2014 , 15, 10		13
59	Biomimetic porous scaffolds for bone tissue engineering. <i>Materials Science and Engineering Reports</i> , 2014 , 80, 1-36	30.9	666
58	Functionalization of biomedical materials using plasma and related technologies. <i>Applied Surface Science</i> , 2014 , 310, 11-18	6.7	19
57	Enhanced antimicrobial properties, cytocompatibility, and corrosion resistance of plasma-modified biodegradable magnesium alloys. <i>Acta Biomaterialia</i> , 2014 , 10, 544-56	10.8	157
56	Masquelet technique for treatment of posttraumatic bone defects. <i>Scientific World Journal</i> , 2014 , 2014, 710302	2.2	42
55	The development, fabrication, and material characterization of polypropylene composites reinforced with carbon nanofiber and hydroxyapatite nanorod hybrid fillers. <i>International Journal of Nanomedicine</i> , 2014 , 9, 1299-310	7.3	32
54	Development and characterization of co-polyimide/attapulgite nanocomposites with highly enhanced thermal and mechanical properties. <i>Polymer Composites</i> , 2014 , 35, 86-96	3	17
53	Engineered polycaprolactone-magnesium hybrid biodegradable porous scaffold for bone tissue engineering. <i>Progress in Natural Science: Materials International</i> , 2014 , 24, 561-567	3.6	47
52	Silver nanoparticles alter proteoglycan expression in the promotion of tendon repair. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2014 , 10, 1375-83	6	23
51	Enhanced corrosion resistance and hemocompatibility of biomedical NiTi alloy by atmospheric-pressure plasma polymerized fluorine-rich coating. <i>Applied Surface Science</i> , 2014 , 297, 109-115	6.7	24
50	Effect of the adding of rod-like attapulgite upon the properties of polyimides produced by random copolycondensation. <i>Journal of Materials Science</i> , 2013 , 48, 4973-4982	4.3	7
49	Fabrication and characterization of monodisperse PLGA-alginate core-shell microspheres with monodisperse size and homogeneous shells for controlled drug release. <i>Acta Biomaterialia</i> , 2013 , 9, 7410-9	10.8	127
48	Improved surface corrosion resistance of WE43 magnesium alloy by dual titanium and oxygen ion implantation. <i>Thin Solid Films</i> , 2013 , 529, 407-411	2.2	50
47	Antimicrobial effects of oxygen plasma modified medical grade Ti6Al4V alloy. <i>Vacuum</i> , 2013 , 89, 271-279	3.7	9
46	Novel polypropylene biocomposites reinforced with carbon nanotubes and hydroxyapatite nanorods for bone replacements. <i>Materials Science and Engineering C</i> , 2013 , 33, 1380-8	8.3	49
45	Cytocompatibility, osseointegration, and bioactivity of three-dimensional porous and nanostructured network on polyetheretherketone. <i>Biomaterials</i> , 2013 , 34, 9264-77	15.6	229
44	Improved in vitro and in vivo biocompatibility of dual plasma modified titanium alloy. <i>Surface and Coatings Technology</i> , 2013 , 229, 130-134	4.4	11

43	Magnetic, fluorescent, and thermo-responsive Fe ₃ O ₄ /rare earth incorporated poly(St-NIPAM) core-shell colloidal nanoparticles in multimodal optical/magnetic resonance imaging probes. <i>Biomaterials</i> , 2013 , 34, 2296-306	15.6	72
42	Synthesis and characterization of novel hyperbranched polyimides/attapulgit nanocomposites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2013 , 55, 161-168	8.4	13
41	In vivo stimulation of bone formation by aluminum and oxygen plasma surface-modified magnesium implants. <i>Biomaterials</i> , 2013 , 34, 9863-76	15.6	83
40	Low-modulus Mg/PCL hybrid bone substitute for osteoporotic fracture fixation. <i>Biomaterials</i> , 2013 , 34, 7016-32	15.6	88
39	Fluorescent magnetic Fe ₃ O ₄ /rare Earth colloidal nanoparticles for dual-modality imaging. <i>Small</i> , 2013 , 9, 2991-3000	11	40
38	Electrochemically deposited chitosan/Ag complex coatings on biomedical NiTi alloy for antibacterial application. <i>Surface and Coatings Technology</i> , 2013 , 232, 370-375	4.4	38
37	Synthesis and properties of hyperbranched polyimides derived from novel triamine with prolonged chain segments. <i>Journal of Polymer Science Part A</i> , 2013 , 51, 2425-2437	2.5	25
36	Surface nano-architectures and their effects on the mechanical properties and corrosion behavior of Ti-based orthopedic implants. <i>Surface and Coatings Technology</i> , 2013 , 233, 13-26	4.4	51
35	Thermosensitive poly(N-isopropylacrylamide-co-glycidyl methacrylate) microgels for controlled drug release. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013 , 101, 251-5	6	38
34	Effects of carbon and nitrogen plasma immersion ion implantation on in vitro and in vivo biocompatibility of titanium alloy. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 1510-6	9.5	70
33	Synthesis and characterization of highly soluble and optically transparent polyimides derived from novel fluorinated pyridine-containing aromatic diamine. <i>High Performance Polymers</i> , 2013 , 25, 268-277	1.6	12
32	Microfluidic fabrication of polymeric core-shell microspheres for controlled release applications. <i>Biomicrofluidics</i> , 2013 , 7, 44128	3.2	41
31	Wear mechanism and tribological characteristics of porous NiTi shape memory alloy for bone scaffold. <i>Journal of Biomedical Materials Research - Part A</i> , 2013 , 101, 2586-601	5.4	13
30	A biomechanical study comparing helical blade with screw design for sliding hip fixations of unstable intertrochanteric fractures. <i>Scientific World Journal, The</i> , 2013 , 2013, 351936	2.2	11
29	Formation and electrochemical behavior of Al and O plasma-implanted biodegradable Mg-Y-RE alloy. <i>Materials Chemistry and Physics</i> , 2012 , 132, 187-191	4.4	37
28	Preparation of Fe ₃ O ₄ /poly(styrene-butyl acrylate-[2-(methacryloxy)ethyl]trimethylammonium chloride) by emulsifier-free emulsion polymerization and its interaction with DNA. <i>Journal of Magnetism and Magnetic Materials</i> , 2012 , 324, 1410-1418	2.8	11
27	Fluorine-containing pH-responsive core/shell microgel particles: preparation, characterization, and their applications in controlled drug release. <i>Colloid and Polymer Science</i> , 2012 , 290, 349-357	2.4	14
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25	Design and preparation of novel fluorescent polyimides containing ortho-linked units and pyridine moieties. <i>Designed Monomers and Polymers</i> , 2012 , 15, 389-404	3.1	18
24	Functional replication of the tendon tissue microenvironment by a bioimprinted substrate and the support of tenocytic differentiation of mesenchymal stem cells. <i>Biomaterials</i> , 2012 , 33, 7686-98	15.6	71
23	Novel anionic fluorine-containing amphiphilic self-assembly polymer micelles for potential application in protein drug carrier. <i>Journal of Fluorine Chemistry</i> , 2012 , 141, 21-28	2.1	16
22	In vitro corrosion inhibition on biomedical shape memory alloy by plasma-polymerized allylamine film. <i>Materials Letters</i> , 2012 , 89, 51-54	3.3	13
21	Droplet based microfluidic fabrication of designer microparticles for encapsulation applications. <i>Biomicrofluidics</i> , 2012 , 6, 34104	3.2	39
20	Sintered Hydroxyapatite/Polyetheretherketone Nanocomposites: Mechanical Behavior and Biocompatibility. <i>Advanced Engineering Materials</i> , 2012 , 14, B155-B165	3.5	33
19	Study on preparation and properties of novel reactive phenolic hydroxyl-containing polyimides. <i>Journal of Polymer Research</i> , 2012 , 19, 1	2.7	7
18	Biodegradable metallic materials for orthopaedic implantations: A review. <i>Technology and Health Care</i> , 2012 ,	1.1	8
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5	Activation of mitogen-activated protein kinases cellular signal transduction pathway in mammalian cells induced by silicon carbide nanowires. <i>Biomaterials</i> , 2010 , 31, 7856-62	15.6	14
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