

# Mohammed Rafiq Abdul Kadir

## List of Publications by Year in descending order

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224  
papers

5,564  
citations

87401

40  
h-index

134545

62  
g-index

225  
all docs

225  
docs citations

225  
times ranked

6715  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of conform, non-conform, and hybrid conformity toward stress distribution at the glenoid implant and cement: A finite element study. <i>International Journal of Artificial Organs</i> , 2022, 45, 200-206.	0.7	0
2	BIOMECHANICAL EVALUATION OF LOCKING COMPRESSION PLATE (LCP) VERSUS DYNAMIC COMPRESSION PLATE (DCP): A FINITE ELEMENT ANALYSIS. <i>Jurnal Teknologi (Sciences and Engineering)</i> , 2022, 84, 125-131.	0.3	0
3	Biomechanical effects of cross-pin's diameter in reconstruction of anterior cruciate ligament – A specific case study via finite element analysis. <i>Injury</i> , 2022, 53, 2424-2436.	0.7	4
4	Fluid–structure interaction (FSI) modeling of bone marrow through trabecular bone structure under compression. <i>Biomechanics and Modeling in Mechanobiology</i> , 2021, 20, 957-968.	1.4	9
5	Synthesis and Characterization of Silver-Coated Polymeric Scaffolds for Bone Tissue Engineering: Antibacterial and In Vitro Evaluation of Cytotoxicity and Biocompatibility. <i>ACS Omega</i> , 2021, 6, 4335-4346.	1.6	44
6	Corrosion of porous Mg and Fe scaffolds: a review of mechanical and biocompatibility responses. <i>Corrosion Engineering Science and Technology</i> , 2021, 56, 310-326.	0.7	14
7	Development of porous, antibacterial and biocompatible GO/n-HAp/bacterial cellulose/β <sup>2</sup> -glucan biocomposite scaffold for bone tissue engineering. <i>Arabian Journal of Chemistry</i> , 2021, 14, 102924.	2.3	59
8	Citric acid: A green cross-linker of biomaterials for biomedical applications. <i>European Polymer Journal</i> , 2021, 146, 110271.	2.6	81
9	Waste to health: A review of waste derived materials for tissue engineering. <i>Journal of Cleaner Production</i> , 2021, 290, 125792.	4.6	38
10	Arabinoxylan/graphene oxide/nHAp NPs/PVA bionano composite scaffolds for fractured bone healing. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2021, 15, 322-335.	1.3	28
11	Development of prolonged drug delivery system using electrospun cellulose acetate/polycaprolactone nanofibers: Future subcutaneous implantation. <i>Polymers for Advanced Technologies</i> , 2021, 32, 3664-3678.	1.6	13
12	Nanocomposite hydrogels for melanoma skin cancer care and treatment: In-vitro drug delivery, drug release kinetics and anti-cancer activities. <i>Arabian Journal of Chemistry</i> , 2021, 14, 103120.	2.3	61
13	Non-obstructive monitoring of muscle fatigue for low intensity dynamic exercise with infrared thermography technique. <i>Medical and Biological Engineering and Computing</i> , 2021, 59, 1447-1459.	1.6	9
14	Finite Element Analysis of External Fixator for Treating Femur Fracture: Analysis on Stainless Steel and Titanium as Material of External Fixator. <i>Malaysian Journal of Fundamental and Applied Sciences</i> , 2021, 17, 274-284.	0.4	3
15	Vitamin D3-loaded electrospun cellulose acetate/polycaprolactone nanofibers: Characterization, in-vitro drug release and cytotoxicity studies. <i>International Journal of Biological Macromolecules</i> , 2021, 181, 82-98.	3.6	39
16	Biomechanical analysis of three different types of fixators for anterior cruciate ligament reconstruction via finite element method: a patient-specific study. <i>Medical and Biological Engineering and Computing</i> , 2021, 59, 1945-1960.	1.6	5
17	The effects of additional hollow cylinder coated to external fixator screws for treating pilon fracture: A biomechanical perspective. <i>Injury</i> , 2021, 52, 2131-2141.	0.7	4
18	Effects of Blood Flow Restriction Training on Muscle Strength and Pain in Patients With Knee Injuries. <i>American Journal of Physical Medicine and Rehabilitation</i> , 2021, 100, 337-344.	0.7	20

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19	In silico study of glenoid perforation during total shoulder arthroplasty: the effects on stress & micromotion. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2020, 23, 182-190.	0.9	5
20	Biomechanical evaluation of three different configurations of external fixators for treating distal third tibia fracture: Finite element analysis in axial, bending and torsion load. <i>Computers in Biology and Medicine</i> , 2020, 127, 104062.	3.9	16
21	Development of Arabinoxylan-Reinforced Apple Pectin/Graphene Oxide/Nano-Hydroxyapatite Based Nanocomposite Scaffolds with Controlled Release of Drug for Bone Tissue Engineering: In-Vitro Evaluation of Biocompatibility and Cytotoxicity against MC3T3-E1. <i>Coatings</i> , 2020, 10, 1120.	1.2	37
22	Development and <i>in vitro</i> evaluation of $\chi$ -carrageenan based polymeric hybrid nanocomposite scaffolds for bone tissue engineering. <i>RSC Advances</i> , 2020, 10, 40529-40542.	1.7	47
23	Novel functional antimicrobial and biocompatible arabinoxylan/guar gum hydrogel for skin wound dressing applications. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2020, 14, 1488-1501.	1.3	59
24	A finite element study: Finding the best configuration between unilateral, hybrid, and ilizarov in terms of biomechanical point of view. <i>Injury</i> , 2020, 51, 2474-2478.	0.7	17
25	Biomechanical Evaluation of Insole for Badminton Players: A Preliminary Study. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020, 884, 012006.	0.3	3
26	In vitro bioactivity and osteoblast cell viability studies of hydroxyapatite-incorporated silica aerogel. <i>Journal of Sol-Gel Science and Technology</i> , 2020, 96, 166-177.	1.1	12
27	Stress Distributions and Micromovement of Fragment Bone of Pilon Fracture Treated With External Fixator: A Finite Element Analysis. <i>Journal of Foot and Ankle Surgery</i> , 2020, 59, 664-672.	0.5	15
28	Synthesis of Silver-Coated Bioactive Nanocomposite Scaffolds Based on Grafted Beta-Glucan/Hydroxyapatite via Freeze-Drying Method: Anti-Microbial and Biocompatibility Evaluation for Bone Tissue Engineering. <i>Materials</i> , 2020, 13, 971.	1.3	46
29	Arabinoxylan-co-AA/HAp/TiO <sub>2</sub> nanocomposite scaffold a potential material for bone tissue engineering: An in vitro study. <i>International Journal of Biological Macromolecules</i> , 2020, 151, 584-594.	3.6	51
30	Zinc-doped hydroxyapatite-zeolite/polycaprolactone composites coating on magnesium substrate for enhancing in-vitro corrosion and antibacterial performance. <i>Transactions of Nonferrous Metals Society of China</i> , 2020, 30, 123-133.	1.7	36
31	BIOMECHANICAL EFFECTS OF DIFFERENT LENGTHS OF CROSS-PINS IN ANTERIOR CRUCIATE LIGAMENT RECONSTRUCTION: A FINITE ELEMENT ANALYSIS. <i>Journal of Mechanics in Medicine and Biology</i> , 2020, 20, 2050047.	0.3	8
32	Fabrication and evaluation of polylactic acid/pectin composite scaffold via freeze extraction for tissue engineering. <i>Journal of Polymer Engineering</i> , 2020, 40, 421-431.	0.6	4
33	Surface entrapment of chitosan on 3D printed polylactic acid scaffold and its biomimetic growth of hydroxyapatite. <i>Composite Interfaces</i> , 2019, 26, 465-478.	1.3	32
34	Transdermal Delivery of Crocin Using Bacterial Nanocellulose Membrane. <i>Fibers and Polymers</i> , 2019, 20, 2025-2031.	1.1	32
35	Preparation and characterization of hydroxyapatite incorporated silica aerogel and its effect on normal human dermal fibroblast cells. <i>Journal of Sol-Gel Science and Technology</i> , 2019, 90, 422-433.	1.1	13
36	Evaluation of as cast aluminium alloy tubes fabricated by using horizontal true centrifugal casting technique. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	0

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37	Systematic mapping study on diagnosis of vulnerable plaque. Multimedia Tools and Applications, 2019, 78, 21695-21730.	2.6	4
38	Fabrication and Biomechanical Evaluation of Polyurethane Material for Synthetic Bone. Journal of Physics: Conference Series, 2019, 1372, 012013.	0.3	0
39	Three Dimensional Finite Element Modelling and Analysis of Human Knee Joint-Model Verification. Journal of Physics: Conference Series, 2019, 1372, 012068.	0.3	7
40	Development and Verification of Three-Dimensional Model of Femoral Bone: Finite Element Analysis. Journal of Physics: Conference Series, 2019, 1372, 012014.	0.3	7
41	Developing functionally graded PVA hydrogel using simple freeze-thaw method for artificial glenoid labrum. Journal of the Mechanical Behavior of Biomedical Materials, 2019, 91, 406-415.	1.5	33
42	In vitro degradation of triple layered poly (lactic-co-glycolic acid) composite membrane composed of nanoapatite and lauric acid for guided bone regeneration applications. Materials Chemistry and Physics, 2019, 221, 501-514.	2.0	9
43	Biomechanical evaluation of pin placement of external fixator in treating tranverse tibia fracture: Analysis on first and second cortex of cortical bone. Malaysian Journal of Fundamental and Applied Sciences, 2019, 15, 75-79.	0.4	4
44	New Device for Intrinsic Hand Muscle Strength Measurement: An Alternative to Strain Gauge Handheld Dynamometer. Evaluation and the Health Professions, 2019, 42, 103-113.	0.9	4
45	Finite Element Analysis of Needle Insertion Angle in Insulin Therapy. International Journal of Automotive and Mechanical Engineering, 2019, 16, 7512-7523.	0.5	2
46	In vitro selection and characterization of single stranded DNA aptamers for luteolin: A possible recognition tool. Analytical Biochemistry, 2018, 549, 72-79.	1.1	6
47	Biomechanical features of six design of the delta external fixator for treating Pilon fracture: a finite element study. Medical and Biological Engineering and Computing, 2018, 56, 1925-1938.	1.6	23
48	Mechanical and corrosion properties of partially degradable bone screws made of pure iron and stainless steel 316L by friction welding. Science China Materials, 2018, 61, 593-606.	3.5	8
49	Finite element analysis of the wrist in stroke patients: the effects of hand grip. Medical and Biological Engineering and Computing, 2018, 56, 1161-1171.	1.6	11
50	A Mini Review on Graft Fixation Devices for Anterior Cruciate Ligament Reconstruction - Techniques, Materials and Complications. , 2018, , .		2
51	Biomechanical Analysis of Different Material of Delta External Fixator for Ankle Joint - The Effect of Standing. , 2018, , .		1
52	Thin Cap Fibroatheroma Detection in Virtual Histology Images Using Geometric and Texture Features. Applied Sciences (Switzerland), 2018, 8, 1632.	1.3	6
53	Evaluation of Radical Scavenging Capacity of Polyphenols Found in Natural Malaysian Honeys by Voltammetric Techniques. Electroanalysis, 2018, 30, 2939-2949.	1.5	9
54	Polydopamine-assisted chlorhexidine immobilization on medical grade stainless steel 316L: Apatite formation and in vitro osteoblastic evaluation. Annals of Anatomy, 2018, 220, 29-37.	1.0	18

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55	The Influence of Ultrasonic Vibration Frequency on the Properties of TiN Coated Biomedical Tiâ€“13Zrâ€“13Nb. Metals, 2018, 8, 317.	1.0	5
56	Enhancement of the Mechanical Properties of Hydroxyapatite/Sulphonated Poly Ether Ether Ketone Treated Layer for Orthopaedic and Dental Implant Application. International Journal of Biomaterials, 2018, 2018, 1-9.	1.1	6
57	Influence of citric acid on the physical and biomineralization ability of freeze/thaw poly(vinyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10	1.2	11
58	SURFACE-TREATED AND FIBRIN-COATED ELECTROSPUN POLYACRYLONITRILE FIBER FOR ENDOTHELIAL CELL GROWTH AND PROLIFERATION. Facta Universitatis, Series: Mechanical Engineering, 2018, 16, 307.	2.3	3
59	A Review on Medicinal Properties of Saffron toward Major Diseases. Journal of Herbs, Spices and Medicinal Plants, 2017, 23, 98-116.	0.5	33
60	Enhanced wideâ€“range monotonic piezoresistivity, reliability of Ketjenblack/deproteinized natural rubber nanocomposite, and its biomedical application. Journal of Applied Polymer Science, 2017, 134, .	1.3	12
61	The influence of flow rates on the dynamic degradation behaviour of porous magnesium under a simulated environment of human cancellous bone. Materials and Design, 2017, 122, 268-279.	3.3	34
62	Multifunctional shape-memory foams with highly tunable properties via organo-phase cryo-polymerization. Journal of Materials Chemistry A, 2017, 5, 9793-9800.	5.2	19
63	Effect of mass concentration on bioactivity and cell viability of calcined silica aerogel synthesized from rice husk ash as silica source. Journal of Sol-Gel Science and Technology, 2017, 82, 120-132.	1.1	8
64	Automatic plaque segmentation based on hybrid fuzzy clustering and k nearest neighborhood using virtual histology intravascular ultrasound images. Applied Soft Computing Journal, 2017, 53, 380-395.	4.1	20
65	A New Highly Conducting Carbon Black (CL-08) Modified Electrode Functionalized with Syringic Acid for Sensitive and Selective L-Cysteine Electrocatalysis at Low Potential. Electrochimica Acta, 2017, 224, 475-486.	2.6	17
66	Novel PLA-Based Conductive Polymer Composites for Biomedical Applications. Jom, 2017, 69, 2838-2843.	0.9	6
67	Selective and low potential electrocatalytic oxidation and sensing of <scp> </scp>-cysteine using metal impurity containing carbon black modified electrode. Analytical Methods, 2017, 9, 6791-6800.	1.3	20
68	Effect of Ferrule Height and Post Length on Mechanical Stress and Displacement of Endodontically Treated Maxillary Central Incisor: A Finite Element Analysis. Journal of Medical and Biological Engineering, 2017, 37, 336-344.	1.0	16
69	InÂvitro biodegradation, electrochemical corrosion evaluations and mechanical properties of an Mg/HA/TiO2 nanocomposite for biomedical applications. Journal of Alloys and Compounds, 2017, 696, 768-781.	2.8	36
70	Assessment of compressive failure process of cortical bone materials using damage-based model. Journal of the Mechanical Behavior of Biomedical Materials, 2017, 66, 1-11.	1.5	26
71	Reinforcement of poly(vinyl alcohol) hydrogel with halloysite nanotubes as potential biomedical materials. Soft Materials, 2017, 15, 45-54.	0.8	45
72	Number of pegs influence focal stress distributions and micromotion in glenoid implants: a finite element study. Medical and Biological Engineering and Computing, 2017, 55, 439-447.	1.6	12

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73	Biodegradable Mg/HA/TiO <sub>2</sub> Nanocomposites Coated with MgO and Si/MgO for Orthopedic Applications: A Study on the Corrosion, Surface Characterization, and Biocompatibility. <i>Coatings</i> , 2017, 7, 154.	1.2	14
74	The Effects of Physiological Biomechanical Loading on Intradiscal Pressure and Annulus Stress in Lumbar Spine: A Finite Element Analysis. <i>Journal of Healthcare Engineering</i> , 2017, 2017, 1-8.	1.1	16
75	The Effect of Position and Different Size of Radial Hole on Performance of Cannulated Pedicle Screw. <i>MATEC Web of Conferences</i> , 2017, 108, 13001.	0.1	5
76	Comparison of standard light-emitting diode (LED) and 385 nm ultraviolet A LED (UVA-LED) for disinfection of <i>Escherichia coli</i> . <i>Malaysian Journal of Fundamental and Applied Sciences</i> , 2017, 13, 430-437.	0.4	4
77	Different material properties of cancellous bone influence analysis of glenoid component loosening: A finite element study. <i>Malaysian Journal of Fundamental and Applied Sciences</i> , 2017, 13, 483-488.	0.4	2
78	Characterization of Articular Cartilage Using Low-Field Magnetic Resonance Imaging Image. <i>Journal of Medical Imaging and Health Informatics</i> , 2017, 7, 1149-1152.	0.2	1
79	Study on the AFM Force Curve Common Errors and Their Effects on the Calculated Nanomechanical Properties of Materials. <i>Journal of Engineering (United States)</i> , 2016, 2016, 1-8.	0.5	2
80	Preparation Methods for Improving PEEK's Bioactivity for Orthopedic and Dental Application: A Review. <i>International Journal of Biomaterials</i> , 2016, 2016, 1-12.	1.1	92
81	Fish embryo toxicity assessment of o-dianisidine in <i>Clarias gariepinus</i> and its electrochemical treatment in aquatic samples using super conductive carbon black. <i>RSC Advances</i> , 2016, 6, 50255-50266.	1.7	6
82	Analysis on stress and micromotion on various peg fixation at glenoid implant. <i>Tribology - Materials, Surfaces and Interfaces</i> , 2016, 10, 26-32.	0.6	6
83	Dynamic degradation of porous magnesium under a simulated environment of human cancellous bone. <i>Corrosion Science</i> , 2016, 112, 495-506.	3.0	44
84	Apini and Meliponini foraging activities influence the phenolic content of different types of Malaysian honey. <i>Journal of Apicultural Research</i> , 2016, 55, 137-150.	0.7	16
85	The role of titania on the microstructure, biocorrosion and mechanical properties of Mg/HA-based nanocomposites for potential application in bone repair. <i>Ceramics International</i> , 2016, 42, 18223-18237.	2.3	11
86	Analysis of parameters' effects in semi-automated knee cartilage segmentation model: Data from the osteoarthritis initiative. <i>AIP Conference Proceedings</i> , 2016, , .	0.3	2
87	Effect of Electrophoretic Deposition Parameters on the Corrosion Behavior of Hydroxyapatite-Coated Cobalt-Chromium Using Response Surface Methodology. <i>Arabian Journal for Science and Engineering</i> , 2016, 41, 591-598.	1.1	10
88	Nano-hydroxyapatite reinforced zeolite ZSM composites: A comprehensive study on the structural and in vitro biological properties. <i>Ceramics International</i> , 2016, 42, 7175-7182.	2.3	29
89	A Conductive polylactic acid/polyaniline porous scaffold via freeze extraction for potential biomedical applications. <i>Soft Materials</i> , 2016, 14, 78-86.	0.8	19
90	Deposition of nanostructured fluorine-doped hydroxyapatite-polycaprolactone duplex coating to enhance the mechanical properties and corrosion resistance of Mg alloy for biomedical applications. <i>Materials Science and Engineering C</i> , 2016, 60, 526-537.	3.8	83

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91	The effect of MgO on the biodegradation, physical properties and biocompatibility of a Mg/HA/MgO nanocomposite manufactured by powder metallurgy method. <i>Journal of Alloys and Compounds</i> , 2016, 655, 266-280.	2.8	75
92	Enhancement of corrosion resistance and mechanical properties of Mg-1.2Ca-2Bi via a hybrid silicon-biopolymer coating system. <i>Surface and Coatings Technology</i> , 2016, 301, 133-139.	2.2	25
93	Effect of torsional loading on compressive fatigue behaviour of trabecular bone. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2016, 54, 21-32.	1.5	23
94	A new electro-generated o-dianisidine derivative stabilized MWCNT-modified GCE for low potential gallic acid detection. <i>RSC Advances</i> , 2015, 5, 45996-46006.	1.7	23
95	Structural characterization, optical properties and in vitro bioactivity of mesoporous erbium-doped hydroxyapatite. <i>Journal of Alloys and Compounds</i> , 2015, 645, 478-486.	2.8	79
96	Synthesis, microstructure and biodegradation behavior of nano-Si and nano-ZnO/Si coatings on a Mg/HA/TiO <sub>2</sub> /MgO nanocomposite. <i>Ceramics International</i> , 2015, 41, 11346-11358.	2.3	13
97	Corrosion and mechanical performance of double-layered nano-Al/PCL coating on Mg-Ca-Bi alloy. <i>Vacuum</i> , 2015, 119, 95-98.	1.6	33
98	The Effect of Silane on the Biomechanical Properties of PEEK/HA Composite. <i>Advanced Materials Research</i> , 2015, 1125, 426-431.	0.3	2
99	Green synthesis of silver nanoneedles using shallot and apricot tree gum. <i>Transactions of Nonferrous Metals Society of China</i> , 2015, 25, 3286-3290.	1.7	7
100	Wax-Impregnated Cotton Fabrics as Cell Culture Platform. <i>Advanced Materials Research</i> , 2015, 1112, 441-444.	0.3	1
101	Permeability study of cancellous bone and its idealised structures. <i>Medical Engineering and Physics</i> , 2015, 37, 77-86.	0.8	30
102	Optimisation of Electrophoretic Deposition Parameters in Coating of Metallic Substrate by Hydroxyapatite Using Response Surface Methodology. <i>Arabian Journal for Science and Engineering</i> , 2015, 40, 923-933.	1.1	14
103	Comparison on three classification techniques for sex estimation from the bone length of Asian children below 19 years old: An analysis using different group of ages. <i>Forensic Science International</i> , 2015, 247, 130.e1-130.e11.	1.3	24
104	Characterization and biological evaluation of silver containing fluoroapatite nanoparticles prepared through microwave synthesis. <i>Ceramics International</i> , 2015, 41, 6470-6477.	2.3	32
105	Effect of Post-Treatment Techniques on Corrosion and Wettability of Hydroxyapatite-Coated Co-Cr-Mo Alloy. <i>Arabian Journal for Science and Engineering</i> , 2015, 40, 1197-1203.	1.1	18
106	Synthesis and corrosion behavior of a hybrid bioceramic-biopolymer coating on biodegradable Mg alloy for orthopaedic implants. <i>Journal of Alloys and Compounds</i> , 2015, 648, 1067-1071.	2.8	31
107	Controlling the degradation kinetics of porous iron by poly(lactic-co-glycolic acid) infiltration for use as temporary medical implants. <i>Scientific Reports</i> , 2015, 5, 11194.	1.6	78
108	Fluoridated hydroxyapatite nanorods as novel fillers for improving mechanical properties of dental composite: Synthesis and application. <i>Materials and Design</i> , 2015, 82, 119-125.	3.3	48

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109	Microstructural characterization, biocorrosion evaluation and mechanical properties of nanostructured ZnO and Si/ZnO coated Mg/HA/TiO <sub>2</sub> /MgO nanocomposites. <i>Surface and Coatings Technology</i> , 2015, 277, 30-43.	2.2	19
110	Quinone-rich polydopamine functionalization of yttria stabilized zirconia for apatite biomineralization: The effects of coating temperature. <i>Applied Surface Science</i> , 2015, 346, 317-328.	3.1	19
111	Uniaxial and Multiaxial Fatigue Life Prediction of the Trabecular Bone Based on Physiological Loading: A Comparative Study. <i>Annals of Biomedical Engineering</i> , 2015, 43, 2487-2502.	1.3	16
112	Biomechanical and bioactivity concepts of polyetheretherketone composites for use in orthopedic implants—a review. <i>Journal of Biomedical Materials Research - Part A</i> , 2015, 103, 3689-3702.	2.1	86
113	Surfactant-assisted hydrothermal synthesis of Fluoridated Hydroxyapatite nanorods. <i>Ceramics International</i> , 2015, 41, 9867-9872.	2.3	33
114	Microwave assisted synthesis and characterization of magnesium substituted calcium phosphate bioceramics. <i>Materials Science and Engineering C</i> , 2015, 56, 286-293.	3.8	13
115	Porous Magnesium Scaffolds for Bone Implant Applications: A Review. <i>Advanced Materials Research</i> , 2015, 1125, 437-440.	0.3	8
116	Rice husk derived bioactive glass-ceramic as a functional bioceramic: Synthesis, characterization and biological testing. <i>Journal of Non-Crystalline Solids</i> , 2015, 427, 54-61.	1.5	30
117	The Mechanical Properties and Corrosion Behavior of Double-Layered Nano Hydroxyapatite-Polymer Coating on Mg-Ca Alloy. <i>Journal of Materials Engineering and Performance</i> , 2015, 24, 4010-4021.	1.2	27
118	Fabrication, bio-corrosion behavior and mechanical properties of a Mg/HA/MgO nanocomposite for biomedical applications. <i>Materials and Design</i> , 2015, 88, 1223-1233.	3.3	44
119	Facile fabrication of hydrophobic surfaces on mechanically alloyed-Mg/HA/TiO <sub>2</sub> /MgO bionanocomposites. <i>Applied Surface Science</i> , 2015, 324, 380-392.	3.1	12
120	Age estimation based on bone length using 12 regression models of left hand X-ray images for Asian children below 19 years old. <i>Legal Medicine</i> , 2015, 17, 71-78.	0.6	21
121	Barium and Fluorine Doped Synthetic Hydroxyapatite: Characterization and <i>In-Vitro</i> Bioactivity Analysis. <i>Science of Advanced Materials</i> , 2015, 7, 249-257.	0.1	22
122	Interactive knee cartilage extraction using efficient segmentation software: Data from the osteoarthritis initiative. <i>Bio-Medical Materials and Engineering</i> , 2014, 24, 3145-3157.	0.4	13
123	Medical Image Visual Appearance Improvement Using Bihistogram Bezier Curve Contrast Enhancement: Data from the Osteoarthritis Initiative. <i>Scientific World Journal</i> , The, 2014, 2014, 1-13.	0.8	13
124	Geometric variable designs of cam/post mechanisms influence the kinematics of knee implants. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2014, 22, 3019-3027.	2.3	7
125	Interactive medical image segmentation with seed precomputation system: Data from the Osteoarthritis Initiative. , 2014, , .		7
126	The Fabrication and Characterization of PCL/Rice Husk Derived Bioactive Glass-Ceramic Composite Scaffolds. <i>Journal of Nanomaterials</i> , 2014, 2014, 1-9.	1.5	10



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127	Crystalline ha coating on peek via chemical deposition. Applied Surface Science, 2014, 314, 1034-1040.	3.1	62
128	In-vitro characterization of antibacterial bioactive glass containing ceria. Ceramics International, 2014, 40, 729-737.	2.3	97
129	In vitro and in vivo degradation evaluation of novel iron-bioceramic composites for bone implant applications. Materials Science and Engineering C, 2014, 36, 336-344.	3.8	89
130	Processing of a multi-layer polyetheretherketone composite for use in acetabular cup prosthesis. Journal of Applied Polymer Science, 2014, 131, .	1.3	0
131	The influence of new wet synthesis route on the morphology, crystallinity and thermal stability of multiple ions doped nanoapatite. Ceramics International, 2014, 40, 1001-1012.	2.3	12
132	Characterization, antibacterial and in vitro compatibility of zinc-silver doped hydroxyapatite nanoparticles prepared through microwave synthesis. Ceramics International, 2014, 40, 4507-4513.	2.3	84
133	Surface modification of yttria stabilized zirconia via polydopamine inspired coating for hydroxyapatite biomineralization. Applied Surface Science, 2014, 322, 169-176.	3.1	25
134	The influence of experimental silane primers on dentin bond strength and morphology: A laboratory and finite element analysis study. Journal of Prosthetic Dentistry, 2014, 112, 1498-1506.	1.1	5
135	Bi-layer nano-TiO <sub>2</sub> /FHA composite coatings on Mg-Zn-Ce alloy prepared by combined physical vapour deposition and electrochemical deposition methods. Vacuum, 2014, 110, 127-135.	1.6	52
136	Biomechanical evaluation of two commonly used external fixators in the treatment of open subtalar dislocation—A finite element analysis. Medical Engineering and Physics, 2014, 36, 1358-1366.	0.8	27
137	Finite element analysis of three commonly used external fixation devices for treating Type III pilon fractures. Medical Engineering and Physics, 2014, 36, 1322-1330.	0.8	40
138	In-vitro degradation behavior of Mg alloy coated by fluorine doped hydroxyapatite and calcium deficient hydroxyapatite. Transactions of Nonferrous Metals Society of China, 2014, 24, 2516-2528.	1.7	39
139	Microwave synthesis, characterization, bioactivity and in vitro biocompatibility of zeolite-hydroxyapatite (Zeo-HA) composite for bone tissue engineering applications. Ceramics International, 2014, 40, 16091-16097.	2.3	37
140	Effect of mechanical alloying on the phase evolution, microstructure and bio-corrosion properties of a Mg/HA/TiO <sub>2</sub> /MgO nanocomposite. Ceramics International, 2014, 40, 16743-16759.	2.3	40
141	In situ stabilization of hydroxylamine via electrochemical immobilization of 4-nitrophenol on GCE/MWCNT electrodes: NADH electrocatalysis at zero potential. Analytical Methods, 2014, 6, 8894-8900.	1.3	5
142	Bioactive Glass: An In-Vitro Comparative Study of Doping with Nanoscale Copper and Silver Particles. International Journal of Applied Glass Science, 2014, 5, 255-266.	1.0	91
143	Stress distributions in maxillary central incisors restored with various types of post materials and designs. Medical Engineering and Physics, 2014, 36, 962-967.	0.8	23
144	A novel poly(xylitol-co-dodecanedioate)/hydroxyapatite composite with shape-memory behaviour. Materials Letters, 2014, 126, 105-108.	1.3	20

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