

# Chengde Gao

## List of Publications by Year in descending order

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126  
papers

7,529  
citations

94269

37  
h-index

54797

84  
g-index

126  
all docs

126  
docs citations

126  
times ranked

12391  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Hydroxyapatite Whisker Reinforced 63s Glass Scaffolds for Bone Tissue Engineering. BioMed Research International, 2015, 2015, 1-8.   | 0.9 | 2,383     |
| 2  | Bone biomaterials and interactions with stem cells. Bone Research, 2017, 5, 17059.   | 5.4 | 503       |
| 3  | A Multimaterial Scaffold With Tunable Properties: Toward Bone Tissue Repair. Advanced Science, 2018, 5, 1700817.   | 5.6 | 264       |
| 4  | Current Progress in Bioactive Ceramic Scaffolds for Bone Repair and Regeneration. International Journal of Molecular Sciences, 2014, 15, 4714-4732.  | 1.8 | 243       |
| 5  | Carbon nanotube, graphene and boron nitride nanotube reinforced bioactive ceramics for bone repair. Acta Biomaterialia, 2017, 61, 1-20.  | 4.1 | 170       |
| 6  | Biodegradable metallic bone implants. Materials Chemistry Frontiers, 2019, 3, 544-562.   | 3.2 | 150       |
| 7  | Enhancement mechanisms of graphene in nano-58S bioactive glass scaffold: mechanical and biological performance. Scientific Reports, 2014, 4, 4712.   | 1.6 | 125       |
| 8  | A novel two-step sintering for nano-hydroxyapatite scaffolds for bone tissue engineering. Scientific Reports, 2014, 4, 5599.   | 1.6 | 124       |
| 9  | 3D honeycomb nanostructure-encapsulated magnesium alloys with superior corrosion resistance and mechanical properties. Composites Part B: Engineering, 2019, 162, 611-620.                                 | 5.9 | 124       |
| 10 | Additive manufacturing of bone scaffolds. International Journal of Bioprinting, 2018, 5, 148.  | 1.7 | 120       |
| 11 | Molybdenum disulfide nanosheets embedded with nanodiamond particles: co-dispersion nanostructures as reinforcements for polymer scaffolds. Applied Materials Today, 2019, 17, 216-226.                     | 2.3 | 116       |
| 12 | Structure and properties of nano-hydroxyapatite scaffolds for bone tissue engineering with a selective laser sintering system. Nanotechnology, 2011, 22, 285703.   | 1.3 | 115       |
| 13 | A combined strategy to enhance the properties of Zn by laser rapid solidification and laser alloying. Journal of the Mechanical Behavior of Biomedical Materials, 2018, 82, 51-60.                         | 1.5 | 103       |
| 14 | A magnetic micro-environment in scaffolds for stimulating bone regeneration. Materials and Design, 2020, 185, 108275.  | 3.3 | 101       |
| 15 | Characterizations and interfacial reinforcement mechanisms of multicomponent biopolymer based scaffold. Materials Science and Engineering C, 2019, 100, 809-825.   | 3.8 | 90        |
| 16 | Graphene oxide reinforced poly(vinyl alcohol): nanocomposite scaffolds for tissue engineering applications. RSC Advances, 2015, 5, 25416-25423.  | 1.7 | 82        |
| 17 | Microstructure, biodegradation, antibacterial and mechanical properties of ZK60-Cu alloys prepared by selective laser melting technique. Journal of Materials Science and Technology, 2018, 34, 1944-1952. | 5.6 | 80        |
| 18 | Nano-SiC reinforced Zn biocomposites prepared via laser melting: Microstructure, mechanical properties and biodegradability. Journal of Materials Science and Technology, 2019, 35, 2608-2617.             | 5.6 | 80        |

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|----|---|-----|-----------|
| 19 | MicroRNAs regulate signaling pathways in osteogenic differentiation of mesenchymal stem cells (Review). <i>Molecular Medicine Reports</i> , 2016, 14, 623-629.  | 1.1 | 79        |
| 20 | Interfacial reinforcement in bioceramic/biopolymer composite bone scaffold: The role of coupling agent. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 193, 111083.  | 2.5 | 76        |
| 21 | Highly biodegradable and bioactive Fe-Pd-bredigite biocomposites prepared by selective laser melting. <i>Journal of Advanced Research</i> , 2019, 20, 91-104.   | 4.4 | 75        |
| 22 | Graphene oxide as an interface phase between polyetheretherketone and hydroxyapatite for tissue engineering scaffolds. <i>Scientific Reports</i> , 2017, 7, 46604.  | 1.6 | 73        |
| 23 | TiO <sub>2</sub> -Induced In Situ Reaction in Graphene Oxide-Reinforced AZ61 Biocomposites to Enhance the Interfacial Bonding. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 23464-23473.                                     | 4.0 | 69        |
| 24 | Regulating Degradation Behavior by Incorporating Mesoporous Silica for Mg Bone Implants. <i>ACS Biomaterials Science and Engineering</i> , 2018, 4, 1046-1054.  | 2.6 | 67        |
| 25 | System development, formability quality and microstructure evolution of selective laser-melted magnesium. <i>Virtual and Physical Prototyping</i> , 2016, 11, 173-181.  | 5.3 | 61        |
| 26 | In Situ Generation of Hydroxyapatite on Biopolymer Particles for Fabrication of Bone Scaffolds Owning Bioactivity. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 46743-46755.   | 4.0 | 58        |
| 27 | A combined nanostructure constructed by graphene and boron nitride nanotubes reinforces ceramic scaffolds. <i>Chemical Engineering Journal</i> , 2017, 313, 487-497.  | 6.6 | 57        |
| 28 | Improved biodegradation resistance by grain refinement of novel antibacterial ZK30-Cu alloys produced via selective laser melting. <i>Materials Letters</i> , 2019, 237, 253-257.   | 1.3 | 57        |
| 29 | Interfacial strengthening by reduced graphene oxide coated with MgO in biodegradable Mg composites. <i>Materials and Design</i> , 2020, 191, 108612.  | 3.3 | 57        |
| 30 | Structural Design and Experimental Analysis of a Selective Laser Sintering System with Nano-Hydroxyapatite Powder. <i>Journal of Biomedical Nanotechnology</i> , 2010, 6, 370-374.  | 0.5 | 50        |
| 31 | Selective laser melting of Zn–Ag alloys for bone repair: microstructure, mechanical properties and degradation behaviour. <i>Virtual and Physical Prototyping</i> , 2018, 13, 146-154.  | 5.3 | 49        |
| 32 | Formation and characteristic corrosion behavior of alternately lamellar arranged $\hat{1}\pm$ and $\hat{1}^2$ in as-cast AZ91 Mg alloy. <i>Journal of Alloys and Compounds</i> , 2019, 770, 549-558.                                      | 2.8 | 49        |
| 33 | A nano-sandwich construct built with graphene nanosheets and carbon nanotubes enhances mechanical properties of hydroxyapatite–polyetheretherketone scaffolds. <i>International Journal of Nanomedicine</i> , 2016, Volume 11, 3487-3500. | 3.3 | 46        |
| 34 | Dual alloying improves the corrosion resistance of biodegradable Mg alloys prepared by selective laser melting. <i>Journal of Magnesium and Alloys</i> , 2021, 9, 305-316.  | 5.5 | 45        |
| 35 | Magnetostrictive alloys: Promising materials for biomedical applications. <i>Bioactive Materials</i> , 2022, 8, 177-195.  | 8.6 | 44        |
| 36 | Calcium silicate ceramic scaffolds toughened with hydroxyapatite whiskers for bone tissue engineering. <i>Materials Characterization</i> , 2014, 97, 47-56.   | 1.9 | 42        |

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|----|---|-----|-----------|
| 37 | The microstructure, mechanical properties and degradation behavior of laser-melted Mg Sn alloys. <i>Journal of Alloys and Compounds</i> , 2016, 687, 109-114.   | 2.8 | 42        |
| 38 | Enhanced sintering ability of biphasic calcium phosphate by polymers used for bone scaffold fabrication. <i>Materials Science and Engineering C</i> , 2013, 33, 3802-3810.  | 3.8 | 41        |
| 39 | Microstructure Evolution and Biodegradation Behavior of Laser Rapid Solidified Mg-Al-Zn Alloy. <i>Metals</i> , 2017, 7, 105.  | 1.0 | 37        |
| 40 | Rare Earth Element Yttrium Modified Mg-Al-Zn Alloy: Microstructure, Degradation Properties and Hardness. <i>Materials</i> , 2017, 10, 477.  | 1.3 | 37        |
| 41 | Toughening and strengthening mechanisms of porous akermanite scaffolds reinforced with nano-titania. <i>RSC Advances</i> , 2015, 5, 3498-3507.  | 1.7 | 36        |
| 42 | Biodegradation Resistance and Bioactivity of Hydroxyapatite Enhanced Mg-Zn Composites via Selective Laser Melting. <i>Materials</i> , 2017, 10, 307.  | 1.3 | 36        |
| 43 | Graphene-reinforced mechanical properties of calcium silicate scaffolds by laser sintering. <i>RSC Advances</i> , 2014, 4, 12782-12788.   | 1.7 | 35        |
| 44 | Dual-functional scaffolds of poly(L-lactic acid)/nanohydroxyapatite encapsulated with metformin: Simultaneous enhancement of bone repair and bone tumor inhibition. <i>Materials Science and Engineering C</i> , 2021, 120, 111592. | 3.8 | 33        |
| 45 | Pre-oxidation induced in situ interface strengthening in biodegradable Zn/nano-SiC composites prepared by selective laser melting. <i>Journal of Advanced Research</i> , 2022, 38, 143-155.   | 4.4 | 33        |
| 46 | Characterization and Bioactivity Evaluation of (Polyetheretherketone/Polyglycolicacid)-Hydroxyapatite Scaffolds for Tissue Regeneration. <i>Materials</i> , 2016, 9, 934.   | 1.3 | 32        |
| 47 | MnO <sub>2</sub> catalysis of oxygen reduction to accelerate the degradation of Fe-C composites for biomedical applications. <i>Corrosion Science</i> , 2020, 170, 108679.  | 3.0 | 31        |
| 48 | Biodegradation mechanisms of selective laser-melted Mg-Al-Zn alloy: grain size and intermetallic phase. <i>Virtual and Physical Prototyping</i> , 2018, 13, 59-69.  | 5.3 | 30        |
| 49 | Physical stimulations and their osteogenesis-inducing mechanisms. <i>International Journal of Bioprinting</i> , 2018, 4, 138.   | 1.7 | 30        |
| 50 | Nano SiO <sub>2</sub> and MgO Improve the Properties of Porous $\beta$ -TCP Scaffolds via Advanced Manufacturing Technology. <i>International Journal of Molecular Sciences</i> , 2015, 16, 6818-6830.                              | 1.8 | 29        |
| 51 | Antibacterial Capability, Physicochemical Properties, and Biocompatibility of nTiO <sub>2</sub> Incorporated Polymeric Scaffolds. <i>Polymers</i> , 2018, 10, 328.  | 2.0 | 29        |
| 52 | Corrosion and antibacterial performance of novel selective-laser-melted (SLMed) Ti-xCu biomedical alloys. <i>Journal of Alloys and Compounds</i> , 2021, 864, 158415.   | 2.8 | 29        |
| 53 | Akermanite scaffolds reinforced with boron nitride nanosheets in bone tissue engineering. <i>Journal of Materials Science: Materials in Medicine</i> , 2015, 26, 188.   | 1.7 | 28        |
| 54 | Calcium Silicate Improved Bioactivity and Mechanical Properties of Poly(3-hydroxybutyrate-co-3-hydroxyvalerate) Scaffolds. <i>Polymers</i> , 2017, 9, 175.  | 2.0 | 28        |

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|----|---|-----|-----------|
| 55 | Influence of graphene oxide (GO) on microstructure and biodegradation of ZK30-xGO composites prepared by selective laser melting. <i>Journal of Magnesium and Alloys</i> , 2020, 8, 952-962.                            | 5.5 | 28        |
| 56 | Correlation between properties and microstructure of laser sintered porous $\beta$ -tricalcium phosphate bone scaffolds. <i>Science and Technology of Advanced Materials</i> , 2013, 14, 055002.                        | 2.8 | 27        |
| 57 | Polyetheretherketone/poly (glycolic acid) blend scaffolds with biodegradable properties. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2016, 27, 1434-1446.   | 1.9 | 27        |
| 58 | A space network structure constructed by tetraneedlelike ZnO whiskers supporting boron nitride nanosheets to enhance comprehensive properties of poly(L-lactide) scaffolds. <i>Scientific Reports</i> , 2016, 6, 33385. | 1.6 | 25        |
| 59 | Mechanical and structural characterization of diopside scaffolds reinforced with graphene. <i>Journal of Alloys and Compounds</i> , 2016, 655, 86-92.   | 2.8 | 25        |
| 60 | Nd-induced honeycomb structure of intermetallic phase enhances the corrosion resistance of Mg alloys for bone implants. <i>Journal of Materials Science: Materials in Medicine</i> , 2017, 28, 130.                     | 1.7 | 25        |
| 61 | A Novel MgO-CaO-SiO <sub>2</sub> System for Fabricating Bone Scaffolds with Improved Overall Performance. <i>Materials</i> , 2016, 9, 287.  | 1.3 | 24        |
| 62 | Disperse magnetic sources constructed with functionalized Fe <sub>3</sub> O <sub>4</sub> nanoparticles in poly-L-lactic acid scaffolds. <i>Polymer Testing</i> , 2019, 76, 33-42.                                       | 2.3 | 24        |
| 63 | Biosilicate scaffolds for bone regeneration: influence of introducing SrO. <i>RSC Advances</i> , 2017, 7, 21749-21757.  | 1.7 | 23        |
| 64 | The microstructure evolution of nanohydroxyapatite powder sintered for bone tissue engineering. <i>Journal of Experimental Nanoscience</i> , 2013, 8, 762-773.  | 1.3 | 22        |
| 65 | Bioactivity Improvement of Forsterite-Based Scaffolds with nano-58S Bioactive Glass. <i>Materials and Manufacturing Processes</i> , 2014, 29, 877-884.  | 2.7 | 21        |
| 66 | Microstructure Evolution and Mechanical Properties Improvement in Liquid-Phase-Sintered Hydroxyapatite by Laser Sintering. <i>Materials</i> , 2015, 8, 1162-1175.   | 1.3 | 21        |
| 67 | An nMgO containing scaffold: Antibacterial activity, degradation properties and cell responses. <i>International Journal of Bioprinting</i> , 2018, 4, 120.   | 1.7 | 20        |
| 68 | Functionalization of Calcium Sulfate/Bioglass Scaffolds with Zinc Oxide Whisker. <i>Molecules</i> , 2016, 21, 378.  | 1.7 | 19        |
| 69 | Preparation and characterization of laser-melted Mg-Sn-Zn alloys for biomedical application. <i>Journal of Materials Science: Materials in Medicine</i> , 2017, 28, 13.   | 1.7 | 19        |
| 70 | A mesoporous silica composite scaffold: Cell behaviors, biomineralization and mechanical properties. <i>Applied Surface Science</i> , 2017, 423, 314-321.   | 3.1 | 19        |
| 71 | Diopside modified porous polyglycolide scaffolds with improved properties. <i>RSC Advances</i> , 2015, 5, 54822-54829.  | 1.7 | 18        |
| 72 | Boron Nitride Nanotubes Reinforce Tricalcium Phosphate Scaffolds and Promote the Osteogenic Differentiation of Mesenchymal Stem Cells. <i>Journal of Biomedical Nanotechnology</i> , 2016, 12, 934-947.                 | 0.5 | 18        |

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|----|--|-----|-----------|
| 73 | Silane Modified Diopside for Improved Interfacial Adhesion and Bioactivity of Composite Scaffolds. <i>Molecules</i> , 2017, 22, 511.   | 1.7 | 18        |
| 74 | Strong corrosion induced by carbon nanotubes to accelerate Fe biodegradation. <i>Materials Science and Engineering C</i> , 2019, 104, 109935.  | 3.8 | 18        |
| 75 | Simulation of dynamic temperature field during selective laser sintering of ceramic powder. <i>Mathematical and Computer Modelling of Dynamical Systems</i> , 2013, 19, 1-11.                | 1.4 | 17        |
| 76 | Mechanical Reinforcement of Diopside Bone Scaffolds with Carbon Nanotubes. <i>International Journal of Molecular Sciences</i> , 2014, 15, 19319-19329.                                       | 1.8 | 17        |
| 77 | Microstructure, mechanical properties and in vitro bioactivity of akermanite scaffolds fabricated by laser sintering. <i>Bio-Medical Materials and Engineering</i> , 2014, 24, 2073-2080.    | 0.4 | 17        |
| 78 | Mechanisms of tetraneedlelike ZnO whiskers reinforced forsterite/bioglass scaffolds. <i>Journal of Alloys and Compounds</i> , 2015, 636, 341-347.  | 2.8 | 17        |
| 79 | Graphene Oxide Reinforced Iron Matrix Composite With Enhanced Biodegradation Rate Prepared by Selective Laser Melting. <i>Advanced Engineering Materials</i> , 2019, 21, 1900314.            | 1.6 | 17        |
| 80 | Selective laser sintering of $\beta$ -TCP/nano-58S composite scaffolds with improved mechanical properties. <i>Materials and Design</i> , 2015, 84, 395-401.                                 | 3.3 | 16        |
| 81 | Ag-Introduced Antibacterial Ability and Corrosion Resistance for Bio-Mg Alloys. <i>BioMed Research International</i> , 2018, 2018, 1-13.   | 0.9 | 16        |
| 82 | Advances in bioceramics for bone implant applications. <i>Bio-Design and Manufacturing</i> , 2020, 3, 307-330.   | 3.9 | 16        |
| 83 | Liquid Phase Sintered Ceramic Bone Scaffolds by Combined Laser and Furnace. <i>International Journal of Molecular Sciences</i> , 2014, 15, 14574-14590.                                      | 1.8 | 15        |
| 84 | A bioactive glass nanocomposite scaffold toughened by multi-wall carbon nanotubes for tissue engineering. <i>Journal of the Ceramic Society of Japan</i> , 2015, 123, 485-491.               | 0.5 | 15        |
| 85 | Calcium sulfate bone scaffolds with controllable porous structure by selective laser sintering. <i>Journal of Porous Materials</i> , 2015, 22, 1171-1178.                                    | 1.3 | 15        |
| 86 | Tailoring properties of porous Poly (vinylidene fluoride) scaffold through nano-sized 58s bioactive glass. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2016, 27, 97-109.       | 1.9 | 15        |
| 87 | In Vitro Corrosion Resistance and Antibacterial Performance of Novel Fe-Cu Biomedical Alloys Prepared by Selective Laser Melting. <i>Advanced Engineering Materials</i> , 2021, 23, 2001000. | 1.6 | 15        |
| 88 | Comparison of the biodegradation of ZK30 subjected to solid solution treating and selective laser melting. <i>Journal of Materials Research and Technology</i> , 2021, 10, 722-729.          | 2.6 | 15        |
| 89 | A continuous net-like eutectic structure enhances the corrosion resistance of Mg alloys. <i>International Journal of Bioprinting</i> , 2019, 5, 207.   | 1.7 | 15        |
| 90 | Enhanced Stability of Calcium Sulfate Scaffolds with 45S5 Bioglass for Bone Repair. <i>Materials</i> , 2015, 8, 7498-7510.   | 1.3 | 14        |

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|-----|---|-----|-----------|
| 91  | Mechanical reinforcement of bioceramics scaffolds via fracture energy dissipation induced by sliding action of MoS <sub>2</sub> nanoplatelets. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2017, 75, 423-433. | 1.5 | 14        |
| 92  | Lanthanum-Containing Magnesium Alloy with Antitumor Function Based on Increased Reactive Oxygen Species. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 2109.   | 1.3 | 14        |
| 93  | Fabricating the nanostructured surfaces of CaSiO <sub>3</sub> scaffolds. <i>Applied Surface Science</i> , 2018, 455, 1150-1160.   | 3.1 | 14        |
| 94  | Biodegradation, Antibacterial Performance, and Cytocompatibility of a Novel ZK30-Cu-Mn Biomedical Alloy Produced by Selective Laser Melting. <i>International Journal of Bioprinting</i> , 2020, 7, 300.                              | 1.7 | 14        |
| 95  | Enhanced osteoinductivity and corrosion resistance of dopamine/gelatin/rhBMP-2-coated $\beta$ -TCP/Mg-Zn orthopedic implants: An in vitro and in vivo study. <i>PLoS ONE</i> , 2020, 15, e0228247.                                    | 1.1 | 13        |
| 96  | Montmorillonite with unique interlayer space imparted polymer scaffolds with sustained release of Ag <sup>+</sup> . <i>Ceramics International</i> , 2019, 45, 11517-11526.  | 2.3 | 11        |
| 97  | Rod-like Eutectic Structure in Biodegradable Zn-Al-Sn Alloy Exhibiting Enhanced Mechanical Strength. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 3821-3831.  | 2.6 | 11        |
| 98  | Nanodiamond reinforced polyvinylidene fluoride/bioglass scaffolds for bone tissue engineering. <i>Journal of Porous Materials</i> , 2017, 24, 249-255.  | 1.3 | 10        |
| 99  | Island-to-acicular alteration of second phase enhances the degradation resistance of biomedical AZ61 alloy. <i>Journal of Alloys and Compounds</i> , 2020, 835, 155397.   | 2.8 | 9         |
| 100 | Preparation of micro/nanometer-sized porous surface structure of calcium phosphate scaffolds and the influence on biocompatibility. <i>Journal of Materials Research</i> , 2014, 29, 1144-1152.                                       | 1.2 | 8         |
| 101 | Grain Growth Associates Mechanical Properties in Nano-Hydroxyapatite Bone Scaffolds. <i>Journal of Nanoscience and Nanotechnology</i> , 2013, 13, 5340-5345.  | 0.9 | 7         |
| 102 | Improvement in degradability of 58s glass scaffolds by ZnO and $\beta$ -TCP modification. <i>Bioengineered</i> , 2016, 7, 342-351.  | 1.4 | 7         |
| 103 | Microstructure analysis in the coupling region of fiber coupler with a novel electrical micro-heater. <i>Optical Fiber Technology</i> , 2011, 17, 541-545.  | 1.4 | 6         |
| 104 | Tunable Degradation Rate and Favorable Bioactivity of Porous Calcium Sulfate Scaffolds by Introducing Nano-Hydroxyapatite. <i>Applied Sciences (Switzerland)</i> , 2016, 6, 411.  | 1.3 | 6         |
| 105 | Refined Lamellar Eutectic in Biomedical Zn-Al-Zr Alloys for Mechanical Reinforcement. <i>Advanced Engineering Materials</i> , 2019, 21, 1801322.  | 1.6 | 5         |
| 106 | Effect of Alloying Mn by Selective Laser Melting on the Microstructure and Biodegradation Properties of Pure Mg. <i>Metals</i> , 2020, 10, 1527.  | 1.0 | 5         |
| 107 | A dual redox system for enhancing the biodegradability of Fe-Cu composite scaffold. <i>Colloids and Surfaces B: Biointerfaces</i> , 2022, 213, 112431.  | 2.5 | 5         |
| 108 | Performance improvement of optical fiber coupler with electric heating versus gas heating. <i>Applied Optics</i> , 2010, 49, 4514.  | 2.1 | 4         |



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|-----|---|-----|-----------|
| 109 | DEVELOPMENT OF COMPLEX POROUS POLYVINYL ALCOHOL SCAFFOLDS: MICROSTRUCTURE, MECHANICAL, AND BIOLOGICAL EVALUATIONS. Journal of Mechanics in Medicine and Biology, 2013, 13, 1350034.                     | 0.3 | 4         |
| 110 | Silicon carbide whiskers reinforced akermanite scaffolds for tissue engineering. RSC Advances, 2014, 4, 36868.  | 1.7 | 4         |
| 111 | Synergistic Effect of Carbon Nanotubes and Graphene on Diopside Scaffolds. BioMed Research International, 2016, 2016, 1-8.  | 0.9 | 4         |
| 112 | In situ decomposition of $Ti_2AlN$ promoted interfacial bonding in $ZnAl-Ti_2AlN$ biocomposites for bone repair. Materials Research Express, 2020, 7, 025402.   | 0.8 | 4         |
| 113 | A Continuous MgF <sub>2</sub> Network Structure Encapsulated Mg Alloy Prepared by Selective Laser Melting for Enhanced Biodegradation Resistance. Advanced Engineering Materials, 2021, 23, 2100389.    | 1.6 | 4         |
| 114 | Microstructure, Mechanical, and Biological Properties of Porous Poly(vinylidene fluoride) Scaffolds Fabricated by Selective Laser Sintering. International Journal of Polymer Science, 2015, 2015, 1-9. | 1.2 | 3         |
| 115 | Development of bioceramic bone scaffolds by introducing triple liquid phases. Journal of Materials Research, 2016, 31, 3498-3505.   | 1.2 | 3         |
| 116 | Mechanically Strong CaSiO <sub>3</sub> Scaffolds Incorporating B <sub>2</sub> O <sub>3</sub> -ZnO Liquid Phase. Applied Sciences (Switzerland), 2017, 7, 387.   | 1.3 | 3         |
| 117 | Uniform degradation mode and enhanced degradation resistance of Mg alloy via a long period stacking ordered phase in the grain interior. Materials Research Express, 2019, 6, 065406.                   | 0.8 | 3         |
| 118 | Mn-promoting formation of a long-period stacking ordered phase in laser-melted Mg alloys to enhance degradation resistance. Materials and Corrosion - Werkstoffe Und Korrosion, 2020, 71, 553-563.      | 0.8 | 3         |
| 119 | A 45S5 Bioactive Glass Scaffold Reinforced with ZnO and MgO. Journal of Biomaterials and Tissue Engineering, 2016, 6, 98-106.   | 0.0 | 3         |
| 120 | Hydrolytic Expansion Induces Corrosion Propagation for Increased Fe Biodegradation. International Journal of Bioprinting, 2019, 6, 248.   | 1.7 | 3         |
| 121 | Biodegradation, Antibacterial Performance, and Cytocompatibility of a Novel ZK30-Cu-Mn Biomedical Alloy Produced by Selective Laser Melting. International Journal of Bioprinting, 2021, 7, 300.        | 1.7 | 3         |
| 122 | FABRICATION OPTIMIZATION OF NANOHYDROXYAPATITE ARTIFICIAL BONE SCAFFOLDS. Nano, 2012, 07, 1250015.  | 0.5 | 2         |
| 123 | A multi-scale porous scaffold fabricated by a combined additive manufacturing and chemical etching process for bone tissue engineering. International Journal of Bioprinting, 2018, 4, 133.             | 1.7 | 2         |
| 124 | Analysis of 3D Printed Diopside Scaffolds Properties for Tissue Engineering. Medziagotyra, 2015, 21, .  | 0.1 | 1         |
| 125 | The Development of a Novel Fused Bi-Conical Taper Machine with an Electrical Resistance Micro-Heater. Advanced Science Letters, 2011, 4, 2032-2036.   | 0.2 | 1         |
| 126 | Development of a Novel Double Liquid Phase for Sintering $Ca^{12}P_6$ -Tricalcium Phosphate Scaffold. Journal of Biomaterials and Tissue Engineering, 2016, 6, 788-797.                                 | 0.0 | 0         |