# Kun Yu

## 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.

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|---|---|---|---|
| 54 papers | 799 citations | 18 h-index | 27 g-index |
| 55 ext. papers | 1,027 ext. citations | 3.5 avg, IF | 4.09 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 54 | Effects of Extrusion and Rolling Processes on the Microstructure and Mechanical Properties of Zn-Li-Ag Alloys. *Metals*, **2022**, 12, 520 | 2.3 | |
| 53 | Application of digital modeling and three-dimensional printing of titanium mesh for reconstruction of thyroid cartilage in partial laryngectomy.. *Acta Oto-Laryngologica*, **2022**, 1-6 | 1.6 | 0 |
| 52 | In vitro and in vivo assessment of the effect of biodegradable magnesium alloys on osteogenesis.. *Acta Biomaterialia*, **2021**, | 10.8 | 4 |
| 51 | Synthesis of Ag-La0.8Sr0.2MnO3 (LSM-Ag) Composite Powder and Its Application in Magnesium Air Battery. *Metals*, **2021**, 11, 633 | 2.3 | |
| 50 | Biodegradable behavior and antibacterial activities of a novel Zn-0.5%Li-(Ag) alloys. *Materials Research Express*, **2021**, 8, 055405 | 1.7 | 1 |
| 49 | Effects of Al and Sn on microstructure, corrosion behavior and electrochemical performance of Mg-Al-based anodes for magnesium-air batteries. *Journal of Alloys and Compounds*, **2021**, 859, 157755 | 5.7 | 8 |
| 48 | A homogenous microstructural Mg-based matrix model for orthopedic application with generating uniform and smooth corrosion product layer in Ringer's solution: Study on biodegradable behavior of Mg-Zn alloys prepared by powder metallurgy as a case. *Journal of Magnesium and Alloys*, **2021**, 9, 225-240 | 8.8 | 5 |
| 47 | Microstructure, biodegradable behavior in different simulated body fluids, antibacterial effect on different bacteria and cytotoxicity of rolled Zn-Li-Ag alloy. *Materials Research Express*, **2020**, 7, 055403 | 1.7 | 3 |
| 46 | Selective Laser Melting and Remelting of Pure Tungsten. *Advanced Engineering Materials*, **2020**, 22, 1901352 | 3.5 | 19 |
| 45 | Enhanced osteoinductivity and corrosion resistance of dopamine/gelatin/rhBMP-2-coated β-TCP/Mg-Zn orthopedic implants: An in vitro and in vivo study. *PLoS ONE*, **2020**, 15, e0228247 | 3.7 | 8 |
| 44 | Mg-Zn-Mn alloy extract induces the angiogenesis of human umbilical vein endothelial cells via FGF/FGFR signaling pathway. *Biochemical and Biophysical Research Communications*, **2019**, 514, 618-624 | 3.4 | 7 |
| 43 | LOC103691336/miR-138-5p/BMPR2 axis modulates Mg-mediated osteogenic differentiation in rat femoral fracture model and rat primary bone marrow stromal cells. *Journal of Cellular Physiology*, **2019**, 234, 21316-21330 | 7 | 19 |
| 42 | Effects of alloying elements on the electrochemical behaviors of Al-Mg-Ga-In based anode alloys. *International Journal of Hydrogen Energy*, **2019**, 44, 12073-12084 | 6.7 | 26 |
| 41 | Investigation on the microstructure, mechanical properties, in vitro degradation behavior and biocompatibility of newly developed Zn-0.8%Li-(Mg, Ag) alloys for guided bone regeneration. *Materials Science and Engineering C*, **2019**, 99, 1021-1034 | 8.3 | 52 |
| 40 | Evaluation of the mechanisms and effects of Mg-Ag-Y alloy on the tumor growth and metastasis of the MG63 osteosarcoma cell line. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2019**, 107, 2537-2548 | 3.5 | 6 |
| 39 | Research on corrosion behavior and biocompatibility of a porous Mg-3%Zn/5%β-Ca(PO) composite scaffold for bone tissue engineering. *Journal of Applied Biomaterials and Functional Materials*, **2019**, 17, 2280800019857064 | 1.8 | 0 |
| 38 | Microstructure, Corrosion Behaviors in Different Simulated Body Fluids and Cytotoxicity of Zn-Li Alloy as Biodegradable Material. *Materials Transactions*, **2019**, 60, 583-586 | 1.3 | 3 |

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|---|---|---|---|
| 37 | Effect of Sc and Zr on Al6(Mn,Fe) Phase in Al□Mg□Mn Alloys. *Materials Transactions*, **2019**, 60, 737-742 | 1.3 | 6 |
| 36 | Effects of Heat Treatment on Microstructure, Mechanical Properties, Corrosion Resistance and Cytotoxicity of ZM21 Magnesium Alloy as Biomaterials. *Journal of Materials Engineering and Performance*, **2019**, 28, 33-43 | 1.6 | 5 |
| 35 | Mechanical strengthening mechanism of Zn-Li alloy and its mini tube as potential absorbable stent material. *Materials Letters*, **2019**, 235, 220-223 | 3.3 | 28 |
| 34 | In vitro and in vivo evaluation of novel biodegradable Mg-Ag-Y alloys for use as resorbable bone fixation implant. *Journal of Biomedical Materials Research - Part A*, **2018**, 106, 2059-2069 | 5.4 | 7 |
| 33 | Microstructure, Mechanical Properties and Corrosion Behavior of Porous Mg-6 wt.% Zn Scaffolds for Bone Tissue Engineering. *Journal of Materials Engineering and Performance*, **2018**, 27, 970-984 | 1.6 | 19 |
| 32 | A Potential Biodegradable Mg-Y-Ag Implant with Strengthened Antimicrobial Properties in Orthopedic Applications. *Metals*, **2018**, 8, 948 | 2.3 | 7 |
| 31 | Effects of the Intermetallic Phases on Microstructure and Properties of Biodegradable Magnesium Matrix and Zinc Matrix Prepared by Powder Metallurgy. *Materials Transactions*, **2018**, 59, 1837-1844 | 1.3 | 3 |
| 30 | Effects of microstructure on the electrochemical discharge behavior of Mg-6wt%Al-1wt%Sn alloy as anode for Mg-air primary battery. *Journal of Alloys and Compounds*, **2017**, 708, 652-661 | 5.7 | 71 |
| 29 | Improvement of the mechanical properties and corrosion resistance of biodegradable □Ca(PO)/Mg-Zn composites prepared by powder metallurgy: the adding □Ca(PO) hot extrusion and aging treatment. *Materials Science and Engineering C*, **2017**, 74, 582-596 | 8.3 | 34 |
| 28 | Effects of polycaprolactone coating on the biodegradable behavior and cytotoxicity of Mg-6%Zn-10%Ca 3 (PO 4 ) 2 composite in simulated body fluid. *Materials Letters*, **2017**, 198, 118-120 | 3.3 | 6 |
| 27 | Effects of Heat Treatment on the Discharge Behavior of Mg-6wt.%Al-1wt.%Sn Alloy as Anode For Magnesium-Air Batteries. *Journal of Materials Engineering and Performance*, **2017**, 26, 2901-2911 | 1.6 | 43 |
| 26 | Effects of Zn concentration and heat treatment on the microstructure, mechanical properties and corrosion behavior of as-extruded Mg-Zn alloys produced by powder metallurgy. *Journal of Alloys and Compounds*, **2017**, 693, 1277-1289 | 5.7 | 58 |
| 25 | Microstructures and properties of Al□0%SiC composites for electronic packaging applications. *Transactions of Nonferrous Metals Society of China*, **2016**, 26, 2647-2652 | 3.3 | 31 |
| 24 | Corrosion and Discharge Behaviors of Al-Mg-Sn-Ga-In in Different Solutions. *Journal of Materials Engineering and Performance*, **2016**, 25, 3456-3464 | 1.6 | 15 |
| 23 | Microstructure and Mechanical Properties of AA1235 Aluminum Foil Stocks Produced Directly from Electrolytic Aluminum Melt. *Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science*, **2016**, 47, 731-739 | 2.5 | 1 |
| 22 | Composition optimization and electrochemical properties of Mg-Al-Pb-(Zn) alloys as anodes for seawater activated battery. *Electrochimica Acta*, **2016**, 194, 40-51 | 6.7 | 40 |
| 21 | Mechanical and structural characterization of diopside scaffolds reinforced with graphene. *Journal of Alloys and Compounds*, **2016**, 655, 86-92 | 5.7 | 21 |
| 20 | Electrochemical behavior of Mg-Al-Pb alloy in 3.5% NaCl solution. *Journal of Central South University*, **2016**, 23, 2475-2482 | 2.1 | 3 |

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|---|---|---|---|
| 19 | Microstructure Evolution and Mechanical Properties Improvement in Liquid-Phase-Sintered Hydroxyapatite by Laser Sintering. *Materials*, **2015**, 8, 1162-1175 | 3.5 | 18 |
| 18 | Discharge behavior and electrochemical properties of Mg□Al□Sn alloy anode for seawater activated battery. *Transactions of Nonferrous Metals Society of China*, **2015**, 25, 1234-1240 | 3.3 | 26 |
| 17 | In vitro corrosion behavior and cytotoxicity property of magnesium matrix composite with chitosan coating. *Journal of Central South University*, **2015**, 22, 829-834 | 2.1 | 4 |
| 16 | The effects of rolling deformation on Al-27%Si alloys prepared by powder metallurgy for electronic packaging applications **2015**, | | 1 |
| 15 | Effects of chitosan coating on biocompatibility of Mg□%Zn□0%Ca3(PO4)2 implant. *Transactions of Nonferrous Metals Society of China*, **2015**, 25, 824-831 | 3.3 | 19 |
| 14 | Biodegradation performance of a chitosan coated magnesium-zinc-tricalcium phosphate composite as an implant. *Biointerphases*, **2014**, 9, 031004 | 1.8 | 11 |
| 13 | Effects of Al and Sn on electrochemical properties of Mg-6%Al-1%Sn (mass fraction) magnesium alloy as anode in 3.5%NaCl solution. *Journal of Central South University*, **2014**, 21, 4409-4414 | 2.1 | 2 |
| 12 | In vivo biocompatibility and biodegradation of a Mg-15%Ca3(PO4)2 composite as an implant material. *Materials Letters*, **2013**, 98, 22-25 | 3.3 | 15 |
| 11 | In vitro corrosion behavior and in vivo biodegradation of biomedical □Ca3(PO4)2/Mg-Zn composites. *Acta Biomaterialia*, **2012**, 8, 2845-55 | 10.8 | 55 |
| 10 | Mechanical properties and biodegradable behavior of Mg□%Zn□Ca3(PO4)2 metal matrix composites in Ringer□s solution. *International Journal of Materials Research*, **2012**, 103, 723-728 | 0.5 | 1 |
| 9 | Manufacturing process and electrochemical properties of an Mg□Ga□Hg anode sheet. *International Journal of Materials Research*, **2012**, 103, 1030-1034 | 0.5 | 1 |
| 8 | Effects of Interface Structures on the Application Properties of Ni/Al Clad Composite. *Composite Interfaces*, **2011**, 18, 399-406 | 2.3 | 6 |
| 7 | Constitutive analysis of AZ31 magnesium alloy plate. *Central South University*, **2010**, 17, 7-12 | | 7 |
| 6 | Effect of T5 and T6 Tempers on a Hot-Rolled WE43 Magnesium Alloy. *Materials Transactions*, **2008**, 49, 1818-1821 | 1.3 | 34 |
| 5 | Production and Properties of a Spray Formed 70%Si-Al Alloy for Electronic Packaging Applications. *Materials Transactions*, **2008**, 49, 685-687 | 1.3 | 9 |
| 4 | Influence of Ga Content on Electrochemical Behavior of Mg-5 at%Hg Anode Materials. *Materials Transactions*, **2008**, 49, 1077-1080 | 1.3 | 11 |
| 3 | Plastic deformation behavior of ZK60 magnesium alloy with addition of neodymium. *Central South University*, **2008**, 15, 434-437 | | 4 |
| 2 | Mechanical properties and microstructure of as-cast and extruded Mg-(Ce, Nd)-Zn-Zr alloys. *Central South University*, **2005**, 12, 499-502 | | 13 |

1 Recrystallization Behavior in an Al–Cu–Mg–Fe–Ni Alloy with Trace Scandium and Zirconium. *Materials Transactions, JIM*, **2000**, 41, 358-361 3