

Lai Chang Zhang

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.

320
papers

13,677
citations

62
h-index

105
g-index

327
ext. papers

16,891
ext. citations

6.2
avg. IF

7.35
L-index

| # | Paper | IF | Citations |
|-----|---|------|-----------|
| 320 | Evolution of grain boundary and texture in TC11 titanium alloy under electroshock treatment. <i>Journal of Alloys and Compounds</i> , 2022 , 904, 163969 | 5.7 | 0 |
| 319 | A New Method for Evaluating the Bond Strength of Plasma-Sprayed NiCrBSi Coatings. <i>Metals</i> , 2022 , 12, 168 | 2.3 | 0 |
| 318 | Synergistic optimization in solidification microstructure and mechanical performance of novel (TiCxNy/TiB2)p/Al nanocomposites: Design, tuning and mechanism. <i>Composites Part A: Applied Science and Manufacturing</i> , 2022 , 155, 106843 | 8.4 | 4 |
| 317 | Nb-60Ta-2Zr alloy exposed to simulated physiological medium: Metallic-ion release behaviour and its correlation with electrochemical properties. <i>Corrosion Science</i> , 2022 , 196, 110034 | 6.8 | 0 |
| 316 | Comparison of microstructure and mechanical behavior of Ti-35Nb manufactured by laser powder bed fusion from elemental powder mixture and prealloyed powder. <i>Journal of Materials Science and Technology</i> , 2022 , 105, 1-16 | 9.1 | 5 |
| 315 | Selective laser melting of bulk immiscible alloy with enhanced strength: Heterogeneous microstructure and deformation mechanisms. <i>Journal of Materials Science and Technology</i> , 2022 , 104, 81-87 | 9.1 | 3 |
| 314 | Simultaneous enhancement of mechanical and shape memory properties by heat-treatment homogenization of Ti2Ni precipitates in TiNi shape memory alloy fabricated by selective laser melting. <i>Journal of Materials Science and Technology</i> , 2022 , 101, 205-216 | 9.1 | 17 |
| 313 | Additive Manufacturing of Titanium Alloys 2022 , 256-274 | | 3 |
| 312 | Corrosion of Titanium Alloys and Composites in Aqueous Solutions 2022 , 200-211 | | 1 |
| 311 | Regulation of energetic hot carriers on Pt/TiO2 with thermal energy for photothermal catalysis. <i>Applied Catalysis B: Environmental</i> , 2022 , 309, 121263 | 21.8 | 1 |
| 310 | Metastable pitting corrosion behavior of laser powder bed fusion produced Ti-6Al-4V in Hank's solution. <i>Corrosion Science</i> , 2022 , 203, 110333 | 6.8 | 1 |
| 309 | High-content continuous carbon fibers reinforced PEEK matrix composite with ultra-high mechanical and wear performance at elevated temperature. <i>Composite Structures</i> , 2022 , 295, 115837 | 5.3 | 0 |
| 308 | Effect of ceramic types on the microstructure and corrosion behavior of titanium matrix composites produced by selective laser melting. <i>Journal of Alloys and Compounds</i> , 2022 , 918, 165704 | 5.7 | 0 |
| 307 | Electroshock treatment dependent microstructural evolution and mechanical properties of near- β titanium alloy manufactured by directed energy deposition. <i>Materials and Design</i> , 2021 , 212, 110286 | 8.1 | 3 |
| 306 | Evolution of microstructural complex transitions in low-modulus β -type Ti-35Nb-2Ta-3Zr alloy manufactured by laser powder bed fusion. <i>Additive Manufacturing</i> , 2021 , 48, 102376 | 6.1 | 0 |
| 305 | Additive manufacturing of metallic lattice structures: Unconstrained design, accurate fabrication, fascinated performances, and challenges. <i>Materials Science and Engineering Reports</i> , 2021 , 146, 100648 | 30.9 | 25 |
| 304 | Interface formation and bonding control in high-volume-fraction (TiC+TiB2)/Al composites and their roles in enhancing properties. <i>Composites Part B: Engineering</i> , 2021 , 209, 108605 | 10 | 50 |

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|-----|---|------|----|
| 303 | A strategy to introduce gradient equiaxed grains into Zr sheet by combining laser surface treatment, rolling and annealing. <i>Scripta Materialia</i> , 2021 , 196, 113761 | 5.6 | 5 |
| 302 | Topological design of pentamode lattice metamaterials using a ground structure method. <i>Materials and Design</i> , 2021 , 202, 109523 | 8.1 | 14 |
| 301 | Induction and pore-formed stages in Al ₂ Au ₃ dealloying process in HCl solutions. <i>Corrosion Science</i> , 2021 , 181, 109220 | 6.8 | 1 |
| 300 | Topological design of pentamode metamaterials with additive manufacturing. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2021 , 377, 113708 | 5.7 | 8 |
| 299 | A Self-Supported High-Entropy Metallic Glass with a Nanosponge Architecture for Efficient Hydrogen Evolution under Alkaline and Acidic Conditions. <i>Advanced Functional Materials</i> , 2021 , 31, 2101586 | 15.6 | 25 |
| 298 | Selective laser melting of Ti-TiN composites: Formation mechanism and corrosion behaviour in H ₂ SO ₄ /HCl mixed solution. <i>Journal of Alloys and Compounds</i> , 2021 , 863, 158721 | 5.7 | 3 |
| 297 | Differences in electrochemical corrosion behaviours between selective laser melted and wrought Ti6Al4V alloys in acid fluoride-containing artificial saliva. <i>Journal of Applied Electrochemistry</i> , 2021 , 51, 1619 | 2.6 | 1 |
| 296 | Enhancing strength-ductility synergy and mechanisms of Al-based composites by size-tunable in-situ TiB ₂ particles with specific spatial distribution. <i>Composites Part B: Engineering</i> , 2021 , 217, 108912 ¹⁰ | | 38 |
| 295 | Microstructural homogeneity and mechanical behavior of a selective laser melted Ti-35Nb alloy produced from an elemental powder mixture. <i>Journal of Materials Science and Technology</i> , 2021 , 61, 221-233 | 9.1 | 27 |
| 294 | Facile fabrication of ultrathin freestanding nanoporous Cu and Cu-Ag films with high SERS sensitivity by dealloying Mg-Cu(Ag)-Gd metallic glasses. <i>Journal of Materials Science and Technology</i> , 2021 , 70, 205-213 | 9.1 | 4 |
| 293 | Refined microstructure and enhanced wear resistance of titanium matrix composites produced by selective laser melting. <i>Optics and Laser Technology</i> , 2021 , 134, 106644 | 4.2 | 18 |
| 292 | Overcoming the strength-ductility trade-off by tailoring grain-boundary metastable Si-containing phase in B ₂ type titanium alloy. <i>Journal of Materials Science and Technology</i> , 2021 , 68, 112-123 | 9.1 | 36 |
| 291 | Tailoring surface morphology of heterostructured iron-based Fenton catalyst for highly improved catalytic activity. <i>Journal of Colloid and Interface Science</i> , 2021 , 581, 860-873 | 9.3 | 17 |
| 290 | Efficient nanostructured heterogeneous catalysts by electrochemical etching of partially crystallized Fe-based metallic glass ribbons. <i>Journal of Materials Science and Technology</i> , 2021 , 61, 159-188 ¹ | 18.1 | 9 |
| 289 | Magnetically separable Z-scheme FeSiB metallic glass/g-C ₃ N ₄ heterojunction photocatalyst with high degradation efficiency at universal pH conditions. <i>Applied Surface Science</i> , 2021 , 540, 148401 | 6.7 | 18 |
| 288 | Microstructure evolution and mechanical property response of TC11 titanium alloy under electroshock treatment. <i>Materials and Design</i> , 2021 , 198, 109322 | 8.1 | 4 |
| 287 | Compressive properties and microstructure evolution in NiTiNb alloy with mesh eutectic phase. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 801, 140434 | 5.3 | 3 |
| 286 | Design and perspective of amorphous metal nanoparticles from laser synthesis and processing. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 11121-11154 | 3.6 | 14 |

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|-----|---|------|----|
| 285 | Novel Approach of Electroshock Treatment for Defect Repair in Near- β Titanium Alloy Manufactured via Directed Energy Deposition. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2021 , 52, 457-461 | 2.3 | 6 |
| 284 | Multi-scale hybrid modified coatings on titanium implants for non-cytotoxicity and antibacterial properties. <i>Nanoscale</i> , 2021 , 13, 10587-10599 | 7.7 | 9 |
| 283 | Improved Wear and Corrosion Resistance of Microarc Oxidation Coatings on Ti β Al β V Alloy with Ultrasonic Assistance for Potential Biomedical Applications. <i>Advanced Engineering Materials</i> , 2021 , 23, 2001433 | 3.5 | 9 |
| 282 | Corrosion behavior and mechanism of selective laser melted Ti35Nb alloy produced using pre-alloyed and mixed powder in Hank's solution. <i>Corrosion Science</i> , 2021 , 189, 109609 | 6.8 | 19 |
| 281 | Non-layer-wise fracture and deformation mechanism in beta titanium cubic lattice structure manufactured by selective laser melting. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 822, 141696 | 5.3 | 4 |
| 280 | Effects of shot peening on microstructure evolution and mechanical properties of surface nanocrystal layer on titanium matrix composite. <i>Materials and Design</i> , 2021 , 206, 109760 | 8.1 | 7 |
| 279 | Achieving ultrahigh-strength in beta-type titanium alloy by controlling the melt pool mode in selective laser melting. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 823, 141731 | 5.3 | 8 |
| 278 | A Self-Supported High-Entropy Metallic Glass with a Nanosponge Architecture for Efficient Hydrogen Evolution under Alkaline and Acidic Conditions (Adv. Funct. Mater. 38/2021). <i>Advanced Functional Materials</i> , 2021 , 31, 2170283 | 15.6 | |
| 277 | A laser-based synthesis route for magnetic metallic glass nanoparticles. <i>Scripta Materialia</i> , 2021 , 203, 114094 | 5.6 | 8 |
| 276 | Corrosion behavior and characteristics of passive films of laser powder bed fusion produced Ti β Al β V in dynamic Hank's solution. <i>Materials and Design</i> , 2021 , 208, 109907 | 8.1 | 21 |
| 275 | Tailoring grain morphology in Ti-6Al-3Mo through heterogeneous nucleation in directed energy deposition. <i>Journal of Materials Science and Technology</i> , 2021 , 88, 132-142 | 9.1 | 5 |
| 274 | Corrosion and passivation behavior of laser powder bed fusion produced Ti-6Al-4V in static/dynamic NaCl solutions with different concentrations. <i>Corrosion Science</i> , 2021 , 191, 109728 | 6.8 | 15 |
| 273 | Damage behavior and mechanism of SiCp/Al composites under biaxial tension. <i>Materials Characterization</i> , 2021 , 180, 111402 | 3.9 | 2 |
| 272 | Graded functionality obtained in NiTi shape memory alloy via a repetitive laser processing strategy. <i>Journal of Materials Processing Technology</i> , 2021 , 296, 117177 | 5.3 | 4 |
| 271 | Refinement of TiB reinforcements in TiB/Ti-2Al-6Sn titanium matrix composite via electroshock treatment. <i>Materials Characterization</i> , 2021 , 180, 111395 | 3.9 | 1 |
| 270 | Unprecedented enhancement in strength-plasticity synergy of (TiC+Al $_6$ MoTi+Mo)/Al cermet by multiple length-scale microstructure stimulated synergistic deformation. <i>Composites Part B: Engineering</i> , 2021 , 225, 109265 | 10 | 11 |
| 269 | {332} Twinning transfer behavior and its effect on the twin shape in a beta-type Ti-23.1Nb-2.0Zr-1.0O alloy. <i>Journal of Materials Science and Technology</i> , 2021 , 91, 58-66 | 9.1 | 0 |
| 268 | Aligning potential differences within carbon nitride based photocatalysis for efficient solar energy harvesting. <i>Nano Energy</i> , 2021 , 89, 106357 | 17.1 | 13 |

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| 267 | Overcoming the limitation of in-situ microstructural control in laser additive manufactured Ti ₆ Al ₄ V alloy to enhanced mechanical performance by integration of synchronous induction heating. <i>Journal of Materials Science and Technology</i> , 2021 , 94, 32-46 | 9.1 | 4 |
| 266 | Tailoring deformation and superelastic behaviors of beta-type Ti-Nb-Mn-Sn alloys. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020 , 110, 103867 | 4.1 | 6 |
| 265 | Atomically thin heavy-metal-free ZnTe nanoplatelets formed from magic-size nanoclusters. <i>Nanoscale Advances</i> , 2020 , 2, 3316-3322 | 5.1 | 7 |
| 264 | In-situ Fe ₂ P reinforced bulk Cu ₃ Fe immiscible alloy with nanotwinned Cu produced by selective laser melting. <i>Journal of Alloys and Compounds</i> , 2020 , 838, 155592 | 5.7 | 9 |
| 263 | Deformation and toughness behavior of β -type titanium alloys comprising C15-type Laves phase. <i>Materials Today Sustainability</i> , 2020 , 9, 100034 | 5 | 8 |
| 262 | Tensile and superelastic behaviors of Ti-35Nb-2Ta-3Zr with gradient structure. <i>Materials and Design</i> , 2020 , 194, 108961 | 8.1 | 8 |
| 261 | Superelastic behavior of in-situ eutectic-reaction manufactured high strength 3D porous NiTi-Nb scaffold. <i>Scripta Materialia</i> , 2020 , 181, 121-126 | 5.6 | 38 |
| 260 | Effects of electroshock treatment on microstructure evolution and texture distribution of near- β titanium alloy manufactured by directed energy deposition. <i>Materials Characterization</i> , 2020 , 161, 110137 | 3.9 | 12 |
| 259 | Evaluation of microstructure variation of TC11 alloy after electroshocking treatment. <i>Journal of Materials Research and Technology</i> , 2020 , 9, 2455-2466 | 5.5 | 14 |
| 258 | Strengthening mechanism and corrosion resistance of beta-type Ti-Nb-Zr-Mn alloys. <i>Materials Science and Engineering C</i> , 2020 , 110, 110728 | 8.3 | 38 |
| 257 | Superelastic response of low-modulus porous beta-type Ti-35Nb-2Ta-3Zr alloy fabricated by laser powder bed fusion. <i>Additive Manufacturing</i> , 2020 , 34, 101264 | 6.1 | 22 |
| 256 | A Novel Multinary Intermetallic as an Active Electrocatalyst for Hydrogen Evolution. <i>Advanced Materials</i> , 2020 , 32, e2000385 | 24 | 72 |
| 255 | Solidification Effect on the Microstructure and Mechanism of Laser-Solid-Forming-Produced Flame-Resistant Ti ₅ V ₁ 5Cr Alloy. <i>Advanced Engineering Materials</i> , 2020 , 22, 2000102 | 3.5 | 5 |
| 254 | Water Splitting: A Novel Multinary Intermetallic as an Active Electrocatalyst for Hydrogen Evolution (Adv. Mater. 21/2020). <i>Advanced Materials</i> , 2020 , 32, 2070166 | 24 | 2 |
| 253 | Enhancing the acid orange dye degradation efficiency of Mg-based glassy alloys with introducing porous structure and zinc oxide. <i>Journal of Alloys and Compounds</i> , 2020 , 831, 154817 | 5.7 | 10 |
| 252 | Role of maze like structure and Y ₂ O ₃ on Al-based amorphous ribbon surface in MO solution degradation. <i>Journal of Molecular Liquids</i> , 2020 , 318, 114318 | 6 | 5 |
| 251 | Dealloyed porous gold anchored by generated graphene sheets as high activity catalyst for methanol electro-oxidation reaction.. <i>RSC Advances</i> , 2020 , 10, 1666-1678 | 3.7 | 1 |
| 250 | Microstructure and properties of equiatomic TiNi alloy fabricated by selective laser melting. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 771, 138586 | 5.3 | 19 |

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| 249 | Enhanced fatigue characteristics of a topology-optimized porous titanium structure produced by selective laser melting. <i>Additive Manufacturing</i> , 2020 , 32, 101060 | 6.1 | 15 |
| 248 | Fe-Based Metallic Glasses and Dyes in Fenton-Like Processes: Understanding Their Intrinsic Correlation. <i>Catalysts</i> , 2020 , 10, 48 | 4 | 7 |
| 247 | A high-efficiency solar desalination evaporator composite of corn stalk, Mcnts and TiO ₂ : ultra-fast capillary water moisture transportation and porous bio-tissue multi-layer filtration. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 349-357 | 13 | 76 |
| 246 | Fast rejuvenation in bulk metallic glass induced by ultrasonic vibration precompression. <i>Intermetallics</i> , 2020 , 118, 106687 | 3.5 | 10 |
| 245 | Synergistic function of iron and cobalt in metallic glasses for highly improving persulfate activation in water treatment. <i>Journal of Alloys and Compounds</i> , 2020 , 822, 153574 | 5.7 | 11 |
| 244 | MgZn-based amorphous ribbon as a benign decolorizer in methyl blue solution. <i>Journal of Non-Crystalline Solids</i> , 2020 , 529, 119802 | 3.9 | 5 |
| 243 | Selective laser melting manufactured porous Fe-based metallic glass matrix composite with remarkable catalytic activity and reusability. <i>Applied Materials Today</i> , 2020 , 19, 100543 | 6.6 | 43 |
| 242 | Highly Stable Na ₃ Fe ₂ (PO ₄) ₃ @Hard Carbon Sodium-Ion Full Cell for Low-Cost Energy Storage. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 1380-1387 | 8.3 | 19 |
| 241 | Catalytic activity of extruded and annealed AuAg alloys for the electro-oxidation of CH ₃ OH and HCOOH. <i>Journal of Alloys and Compounds</i> , 2020 , 815, 152409 | 5.7 | 3 |
| 240 | Surface Modification of Titanium and Titanium Alloys: Technologies, Developments, and Future Interests. <i>Advanced Engineering Materials</i> , 2020 , 22, 1901258 | 3.5 | 148 |
| 239 | Corrosion behavior of monophasic and multiphasic Al ₅₀ Au ₅₀ ribbons in AlCl ₃ + HCl solution. <i>Corrosion Science</i> , 2020 , 165, 108398 | 6.8 | 6 |
| 238 | Strengthening mechanism and micropillar analysis of high-strength NiTiNb eutectic-type alloy prepared by laser powder bed fusion. <i>Composites Part B: Engineering</i> , 2020 , 200, 108358 | 10 | 26 |
| 237 | Microstructures and mechanical behavior of beta-type Ti-25V-15Cr-0.2Si titanium alloy coating by laser cladding. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 796, 140063 | 5.3 | 10 |
| 236 | A Hydrogen-Initiated Chemical Epitaxial Growth Strategy for In-Plane Heterostructured Photocatalyst. <i>ACS Nano</i> , 2020 , | 16.7 | 18 |
| 235 | Ultrafine copper nanoclusters and single sites for Fenton-like reactions with high atom utilities. <i>Environmental Science: Nano</i> , 2020 , 7, 2595-2606 | 7.1 | 8 |
| 234 | Recent Development in Beta Titanium Alloys for Biomedical Applications. <i>Metals</i> , 2020 , 10, 1139 | 2.3 | 65 |
| 233 | Surface Functionalization of Biomedical Ti-6Al-7Nb Alloy by Liquid Metal Dealloying. <i>Nanomaterials</i> , 2020 , 10, | 5.4 | 9 |
| 232 | High MB Solution Degradation Efficiency of FeSiBZr Amorphous Ribbon with Surface Tunnels. <i>Materials</i> , 2020 , 13, | 3.5 | 4 |

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| 231 | Role of Boron in Enhancing Electron Delocalization to Improve Catalytic Activity of Fe-Based Metallic Glasses for Persulfate-Based Advanced Oxidation. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 44789-44797 | 9.5 | 8 |
| 230 | Phase Transformation-Induced Improvement in Hardness and High-Temperature Wear Resistance of Plasma-Sprayed and Remelted NiCrBSi/WC Coatings. <i>Metals</i> , 2020 , 10, 1688 | 2.3 | 9 |
| 229 | Corrosion Behavior of Selective Laser Melted AlSi10Mg Alloy in NaCl Solution and Its Dependence on Heat Treatment. <i>Acta Metallurgica Sinica (English Letters)</i> , 2020 , 33, 327-337 | 2.5 | 16 |
| 228 | Nanosecond pulsed fiber laser cleaning of natural marine micro-biofoulings from the surface of aluminum alloy. <i>Journal of Cleaner Production</i> , 2020 , 244, 118724 | 10.3 | 17 |
| 227 | Improved trade-off between strength and plasticity in titanium based metastable beta type Ti-Zr-Fe-Sn alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 766, 138340 | 5.3 | 36 |
| 226 | Calculation of Oxygen Diffusion Coefficients in Oxide Films Formed on Low-Temperature Annealed Zr Alloys and Their Related Corrosion Behavior. <i>Metals</i> , 2019 , 9, 850 | 2.3 | 12 |
| 225 | Fast Activating Persulfate by Crystallization of Fe-Based Metallic Glasses with External Energy. <i>Materials Science Forum</i> , 2019 , 960, 200-206 | 0.4 | 2 |
| 224 | Manganese oxide integrated catalytic ceramic membrane for degradation of organic pollutants using sulfate radicals. <i>Water Research</i> , 2019 , 167, 115110 | 12.5 | 86 |
| 223 | Tailoring Grain Boundary and Resultant Plasticity of Pure Iron by Pulsed-Electric-Current Treatment. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2019 , 50, 856-862 | 2.3 | 3 |
| 222 | Pitting and etching behaviors occurring in duplex stainless steel 2205 in the presence of alternating voltage interference. <i>Construction and Building Materials</i> , 2019 , 202, 877-890 | 6.7 | 11 |
| 221 | A review of catalytic performance of metallic glasses in wastewater treatment: Recent progress and prospects. <i>Progress in Materials Science</i> , 2019 , 105, 100576 | 42.2 | 130 |
| 220 | Abnormal corrosion behavior of selective laser melted AlSi10Mg alloy induced by heat treatment at 300 °C. <i>Journal of Alloys and Compounds</i> , 2019 , 803, 314-324 | 5.7 | 18 |
| 219 | Low-valence ion addition induced more compact passive films on nickel-copper nano-coatings. <i>Journal of Materials Science and Technology</i> , 2019 , 35, 2144-2155 | 9.1 | 6 |
| 218 | Nanoindentation characterization on local plastic response of Ti-6Al-4V under high-load spherical indentation. <i>Journal of Materials Research and Technology</i> , 2019 , 8, 3434-3442 | 5.5 | 14 |
| 217 | Deformation and strength characteristics of Laves phases in titanium alloys. <i>Materials and Design</i> , 2019 , 179, 107891 | 8.1 | 44 |
| 216 | Selective laser melting of TiB5Nb composite from elemental powder mixture: Microstructure, mechanical behavior and corrosion behavior. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 760, 214-224 | 5.3 | 84 |
| 215 | Influence of powder shape on atomic diffusivity and resultant densification mechanisms during spark plasma sintering. <i>Journal of Alloys and Compounds</i> , 2019 , 802, 600-608 | 5.7 | 9 |
| 214 | Pt nanoparticles decorated heterostructured g-CN/BiMoO microplates with highly enhanced photocatalytic activities under visible light. <i>Scientific Reports</i> , 2019 , 9, 7636 | 4.9 | 42 |

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| 213 | Surface microstructure and mechanical properties of Ti-6Al-4V/Ag nanocomposite prepared by FSP. <i>Materials Characterization</i> , 2019 , 153, 175-183 | 3.9 | 30 |
| 212 | Metallic Glass Catalysts: Attractive In Situ Self-Reconstructed Hierarchical Gradient Structure of Metallic Glass for High Efficiency and Remarkable Stability in Catalytic Performance (Adv. Funct. Mater. 19/2019). <i>Advanced Functional Materials</i> , 2019 , 29, 1970131 | 15.6 | |
| 211 | Surface reactivation of FeNiPC metallic glass: A strategy for highly enhanced catalytic behavior. <i>Journal of Physics and Chemistry of Solids</i> , 2019 , 132, 89-98 | 3.9 | 21 |
| 210 | Automatic remelting and enhanced mechanical performance of a plasma sprayed NiCrBSi coating. <i>Surface and Coatings Technology</i> , 2019 , 369, 31-43 | 4.4 | 43 |
| 209 | A Review on Biomedical Titanium Alloys: Recent Progress and Prospect. <i>Advanced Engineering Materials</i> , 2019 , 21, 1801215 | 3.5 | 371 |
| 208 | Mechanical behavior and phase transformation of β -type Ti-35Nb-2Ta-3Zr alloy fabricated by 3D-Printing. <i>Journal of Alloys and Compounds</i> , 2019 , 790, 117-126 | 5.7 | 54 |
| 207 | Microstructure evolution and electrochemical properties of TiO ₂ /Ti-35Nb-2Ta-3Zr micro/nano-composites fabricated by friction stir processing. <i>Materials and Design</i> , 2019 , 169, 107680 | 8.1 | 23 |
| 206 | Mechanical characterization and deformation behavior of β -stabilized Ti-Nb-Sn-Cr alloys. <i>Journal of Alloys and Compounds</i> , 2019 , 792, 684-693 | 5.7 | 39 |
| 205 | Phase separation and enhanced wear resistance of Cu ₈₈ Fe ₁₂ immiscible coating prepared by laser cladding. <i>Journal of Materials Research and Technology</i> , 2019 , 8, 2001-2010 | 5.5 | 17 |
| 204 | Transformation-induced plasticity and high strength in beta titanium alloy manufactured by selective laser melting. <i>Materialia</i> , 2019 , 6, 100299 | 3.2 | 60 |
| 203 | Attractive In Situ Self-Reconstructed Hierarchical Gradient Structure of Metallic Glass for High Efficiency and Remarkable Stability in Catalytic Performance. <i>Advanced Functional Materials</i> , 2019 , 29, 1807857 | 15.6 | 47 |
| 202 | Design and engineering heterojunctions for the photoelectrochemical monitoring of environmental pollutants: A review. <i>Applied Catalysis B: Environmental</i> , 2019 , 248, 405-422 | 21.8 | 85 |
| 201 | Corrosion Behaviors of Additive Manufactured Titanium Alloys 2019 , 197-226 | | 0 |
| 200 | Additive Manufacturing of Titanium Alloys for Biomedical Applications 2019 , 179-196 | | 2 |
| 199 | Ultrahigh-performance TiNi shape memory alloy by 4D printing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 763, 138166 | 5.3 | 76 |
| 198 | Beta-type Ti-Nb-Zr-Cr alloys with large plasticity and significant strain hardening. <i>Materials and Design</i> , 2019 , 181, 108064 | 8.1 | 30 |
| 197 | Evolution of functional properties realized by increasing laser scanning speed for the selective laser melting fabricated NiTi alloy. <i>Journal of Alloys and Compounds</i> , 2019 , 804, 220-229 | 5.7 | 31 |
| 196 | Correlation between microstructure and deformation mechanism in Ti ₆₆ Nb ₁₃ Cu ₈ Ni _{6.8} Al _{6.2} composites at ambient and elevated temperatures. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 767, 138448 | 5.3 | 2 |

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| 195 | Microstructure and Mechanical Properties of Zamak 3 Alloy Subjected to Sliding Friction Treatment. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2019 , 50, 5888-5895 | 2.3 | 2 |
| 194 | Remediation of industrial contaminated water with arsenic and nitrate by mass-produced Fe-based metallic glass: Toward potential industrial applications. <i>Sustainable Materials and Technologies</i> , 2019 , 22, e00126 | 5.3 | 14 |
| 193 | Particle Size-Dependent Microstructure, Hardness and Electrochemical Corrosion Behavior of Atmospheric Plasma Sprayed NiCrBSi Coatings. <i>Metals</i> , 2019 , 9, 1342 | 2.3 | 26 |
| 192 | Alternating voltage induced oscillation on electrochemical behavior and pitting corrosion in duplex stainless steel 2205. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2019 , 70, 419-433 | 1.6 | 6 |
| 191 | Effect of direct current electric field intensity and electrolyte layer thickness on oxygen reduction in simulated atmospheric environment. <i>Corrosion Science</i> , 2019 , 148, 206-212 | 6.8 | 3 |
| 190 | Discontinuous core-shell structured Ti-25Nb-3Mo-3Zr-2Sn alloy with high strength and good plasticity. <i>Materials Characterization</i> , 2019 , 147, 127-130 | 3.9 | 8 |
| 189 | Resemblance in Corrosion Behavior of Selective Laser Melted and Traditional Monolithic Ti-24Nb-4Zr-8Sn Alloy. <i>ACS Biomaterials Science and Engineering</i> , 2019 , 5, 1141-1149 | 5.5 | 49 |
| 188 | Sol-gel synthesis of porous Na ₃ Fe ₂ (PO ₄) ₃ with enhanced sodium-ion storage capability. <i>Ionics</i> , 2019 , 25, 1083-1090 | 2.7 | 11 |
| 187 | Phase interaction induced texture in a plasma sprayed-remelted NiCrBSi coating during solidification: An electron backscatter diffraction study. <i>Surface and Coatings Technology</i> , 2019 , 358, 467-480 | 4.4 | 27 |
| 186 | Chemically dealloyed Fe-based metallic glass with void channels-like architecture for highly enhanced peroxymonosulfate activation in catalysis. <i>Journal of Alloys and Compounds</i> , 2019 , 785, 642-650 | 5.7 | 26 |
| 185 | K-doped Na ₃ Fe ₂ (PO ₄) ₃ cathode materials with high-stable structure for sodium-ion stored energy battery. <i>Journal of Alloys and Compounds</i> , 2019 , 784, 939-946 | 5.7 | 22 |
| 184 | Facile preparation of superhydrophobic structures on Al alloys surfaces with superior corrosion resistance. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2019 , 70, 558-565 | 1.6 | 12 |
| 183 | High temperature deformation and microstructural evolution of core-shell structured titanium alloy. <i>Journal of Alloys and Compounds</i> , 2019 , 775, 316-321 | 5.7 | 9 |
| 182 | Compressive and fatigue behavior of functionally graded Ti-6Al-4V meshes fabricated by electron beam melting. <i>Acta Materialia</i> , 2018 , 150, 1-15 | 8.4 | 116 |
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