

# Bin Chen

## List of Publications by Year in descending order

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Version: 2024-02-01

141  
papers

5,376  
citations

117625

34  
h-index

91884

69  
g-index

141  
all docs

141  
docs citations

141  
times ranked

5328  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Study of the Co-pyrolysis characteristics of oil shale with wheat straw based on the hierarchical collection. <i>Energy</i> , 2022, 239, 122144.  | 8.8  | 9         |
| 2  | A study on Sc- and Zr-modified Al-Cu-Mg alloys processed by selective laser melting. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 833, 142516.           | 5.6  | 13        |
| 3  | Alignment and strengthening effect of $\text{Al}_2\text{O}_3$ precipitates in Mg-Gd-Y-Zr during ageing process studied by HAADF-STEM and GPA. <i>Philosophical Magazine Letters</i> , 2022, 102, 71-80.                           | 1.2  | 2         |
| 4  | Efficient electrocatalytic reduction of nitrate to nitrogen gas by a cubic $\text{Cu}_2\text{O}$ film with predominant (111) orientation. <i>Chemical Communications</i> , 2022, 58, 3613-3616.                                   | 4.1  | 11        |
| 5  | Enhanced Gas Sensing Performance of rGO Wrapped Crystal Facet-Controlled $\text{Co}_3\text{O}_4$ Nanocomposite Heterostructures. <i>Journal of Physical Chemistry C</i> , 2022, 126, 4879-4888.                                   | 3.1  | 9         |
| 6  | In-Situ Monitoring the SERS Spectra of para-Aminothiophenol Adsorbed on Plasmon-Tunable Au@Ag Core-Shell Nanostars. <i>Nanomaterials</i> , 2022, 12, 1156.  | 4.1  | 7         |
| 7  | Mechanical Properties and Microstructure Evolution of Mg-Gd Alloy during Aging Treatment. <i>Metals</i> , 2022, 12, 39.   | 2.3  | 4         |
| 8  | Flexible MXene films for batteries and beyond. , 2022, 4, 598-620.  |      | 42        |
| 9  | Characterization and energy calculation of the S/Al interface of Al-Cu-Mg alloys: Experimental and first-principles calculations. <i>Vacuum</i> , 2022, 202, 111131.  | 3.5  | 17        |
| 10 | $\text{Na}_x\text{WO}_3$ Nanosheet Array via In Situ Na Intercalation for Surface-Enhanced Raman Scattering Detection of Methylene Blue. <i>ACS Applied Nano Materials</i> , 2022, 5, 7841-7849.                                  | 5.0  | 8         |
| 11 | Coarsening mechanism of T1 precipitation and calculation of T1/Al interface properties in 2198 Al-Cu-Li alloys: Experimental and DFT studies. <i>Vacuum</i> , 2022, 204, 111333.  | 3.5  | 6         |
| 12 | The interface between long-period stacking-ordered (LPSO) structure and $\text{L}^{2'}$ phase in Mg-Gd-Al alloys. <i>Journal of Alloys and Compounds</i> , 2022, 923, 166267.   | 5.5  | 6         |
| 13 | Comparisons of Age Hardening and Precipitation Behavior in 7075 Alloy Under Single and Double-Stage Aging Treatments. <i>Metals and Materials International</i> , 2021, 27, 4204-4215.  | 3.4  | 18        |
| 14 | In-Situ Electrochemically Activated Surface Vanadium Valence in $\text{V}_2\text{C}$ MXene to Achieve High Capacity and Superior Rate Performance for Zn-Ion Batteries. <i>Advanced Functional Materials</i> , 2021, 31, 2008033. | 14.9 | 156       |
| 15 | Template-assisted fabrication of Ag-nanoparticles@ZnO-nanorods array as recyclable 3D surface enhanced Raman scattering substrate for rapid detection of trace pesticides. <i>Nanotechnology</i> , 2021, 32, 145302.              | 2.6  | 19        |
| 16 | Polycrystalline and Single-Crystalline Edge Layer of Mg-Gd-TM (TM=Ni, Ag) Alloys Prepared by Ion Thinner. <i>Advanced Engineering Materials</i> , 2021, 23, 2001222.  | 3.5  | 0         |
| 17 | Evolution of microstructure and strain field by precipitation during early ageing of Al-Si-Mg-Cu alloy. <i>Philosophical Magazine Letters</i> , 2021, 101, 143-153.   | 1.2  | 1         |
| 18 | Copper-assisted growth of high-purity carbon nanofiber networks with controllably tunable wettabilities. <i>Journal of Materials Chemistry A</i> , 2021, 9, 22039-22047.  | 10.3 | 6         |

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|----|--|------|-----------|
| 19 | The microstructure and property of lamellar interface in ternary Mg-Gd-Cu alloys: a combined experimental and first-principles study. <i>Journal of Materials Science</i> , 2021, 56, 9470-9483.                               | 3.7  | 3         |
| 20 | Sulfonic-Group-Grafted Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene: A Silver Bullet to Settle the Instability of Polyaniline toward High-Performance Zn-Ion Batteries. <i>ACS Nano</i> , 2021, 15, 9065-9075.          | 14.6 | 78        |
| 21 | Nanoarray heterojunction and its efficient solar cells without negative impact of photogenerated electric field. <i>Communications Physics</i> , 2021, 4, .  | 5.3  | 11        |
| 22 | Effect of double aging on mechanical properties and microstructure of EV31A alloy. <i>Transactions of Nonferrous Metals Society of China</i> , 2021, 31, 2606-2614.  | 4.2  | 8         |
| 23 | Simulation analysis of Co-Pyrolysis of oil shale and wheat straw based on the combination of chain reaction kinetics and improved CPD models. <i>Energy Conversion and Management</i> , 2021, 243, 114405.                     | 9.2  | 17        |
| 24 | MOF-derived NiCoZnP nanoclusters anchored on hierarchical N-doped carbon nanosheets array as bifunctional electrocatalysts for overall water splitting. <i>Chemical Engineering Journal</i> , 2021, 422, 130533.               | 12.7 | 79        |
| 25 | Atomic-scale observation on the precipitates in various aging stages of Mg-Gd-Y-Cu alloy. <i>Journal of Alloys and Compounds</i> , 2021, 887, 161423.  | 5.5  | 7         |
| 26 | Obtaining $\hat{\Gamma}^3$ phase by addition of Mn in Mg-Gd-Y-Zn-Ni-Mn alloy: atomic-scale insights by scanning transmission electron microscopy. <i>Philosophical Magazine Letters</i> , 2021, 101, 107-114.                  | 1.2  | 2         |
| 27 | Highly Mesoporous Cobalt-Hybridized 2D Cu <sub>3</sub> P Nanosheet Arrays as Boosting Janus Electrocatalysts for Water Splitting. <i>Inorganic Chemistry</i> , 2021, 60, 18325-18336.  | 4.0  | 8         |
| 28 | The growth of $\hat{\Gamma}^2$ phase in Mg-Gd-Y-Ni alloy by experimental and first-principles study. <i>Journal of Magnesium and Alloys</i> , 2021, , .  | 11.9 | 4         |
| 29 | Orientations and interfaces between $\hat{\Gamma}^2$ -Al <sub>13</sub> Cr <sub>4</sub> Si <sub>4</sub> and the matrix in Al-Si-Cr-Mg alloy. <i>Materials Characterization</i> , 2020, 160, 110096.                             | 4.4  | 4         |
| 30 | Thermodynamic re-assessment of the Mg-Gd binary system coupling the microstructure evolution during ageing process. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2020, 68, 101712.                | 1.6  | 12        |
| 31 | Recipe for ultrafast and persistent phase-change memory materials. <i>NPG Asia Materials</i> , 2020, 12, .   | 7.9  | 29        |
| 32 | Atomic-scale insights on the plate-shaped $\hat{\Gamma}^3$ phase in Mg-Gd-Y-Ag-Zr alloy. <i>Journal of Materials Research</i> , 2020, 35, 1837-1845.   | 2.6  | 2         |
| 33 | Ag-Nanoparticles@Bacterial Nanocellulose as a 3D Flexible and Robust Surface-Enhanced Raman Scattering Substrate. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 50713-50720.                                       | 8.0  | 64        |
| 34 | Effects of nanoprecipitates and LPSO structure on deformation and fracture behaviour of high-strength Mg-Gd-Y-Zn-Mn alloys. <i>Materials Characterization</i> , 2020, 165, 110396.   | 4.4  | 36        |
| 35 | In-situ observation of microcrack evolution in a dual-phase steel during tensile straining. <i>Materials Science and Technology</i> , 2020, 36, 674-680.   | 1.6  | 1         |
| 36 | Study on the precipitates in various aging stages and composite strengthening effect of precipitates and long-period stacking ordered structure of Mg-Gd-Y-Ni alloy. <i>Journal of Materials Research</i> , 2020, 35, 172-184. | 2.6  | 4         |

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|----|--|------|-----------|
| 37 | On the S-phase precipitates in 2024 aluminum alloy: An atomic-scale investigation using high-angle annular dark-field scanning transmission electron microscopy. <i>Journal of Materials Research</i> , 2020, 35, 1582-1589. | 2.6  | 13        |
| 38 | Achievement of high-purity carbon nanofibres via peeling process. <i>Micro and Nano Letters</i> , 2020, 15, 1038-1040.   | 1.3  | 0         |
| 39 | A biomimetic nanoleaf electrocatalyst for robust oxygen evolution reaction. <i>Applied Catalysis B: Environmental</i> , 2019, 259, 118017.   | 20.2 | 46        |
| 40 | Kinetics Features Conducive to Cache-Type Nonvolatile Phase-Change Memory. <i>Chemistry of Materials</i> , 2019, 31, 8794-8800.  | 6.7  | 35        |
| 41 | Precipitation of T <sub>1</sub> phase in 2198 Al-Li alloy studied by atomic-resolution HAADF-STEM. <i>Journal of Materials Research</i> , 2019, 34, 3535-3544.   | 2.6  | 18        |
| 42 | Unexpected capture of Guinier-Preston zone and $\beta^3$ phase in as-cast Mg-Gd-Y-Zn-Ni-Mn alloy: Atomic-scale insights. <i>Materials Characterization</i> , 2019, 153, 103-107.   | 4.4  | 8         |
| 43 | Atomic-scale observation of $\beta^2$ and LPSO phase in Mg-Y-Ni alloy by HAADF-STEM. <i>Journal of Materials Research</i> , 2019, 34, 3545-3553.   | 2.6  | 8         |
| 44 | Tuning Localized Surface Plasmon Resonance of Nanoporous Gold with a Silica Shell for Surface Enhanced Raman Scattering. <i>Nanomaterials</i> , 2019, 9, 251.  | 4.1  | 14        |
| 45 | Atomic-scale characterization of interfaces between 2A70 aluminum alloy matrix and Cu-enriched layer after electropolishing. <i>Materials Characterization</i> , 2019, 150, 150-154.   | 4.4  | 8         |
| 46 | Atomic Scale Investigation on Precipitates and Defects of Mg-RE Alloys: A Review. <i>Advanced Engineering Materials</i> , 2019, 21, 1800734.   | 3.5  | 16        |
| 47 | Deformation mechanism and dynamic precipitation in a Mg-7Al-2Sn alloy processed by surface mechanical attrition treatment. <i>Journal of Materials Science and Technology</i> , 2019, 35, 1473-1478.                         | 10.7 | 11        |
| 48 | On the strengthening precipitate structures in Mg-Gd-Ag alloy: An atomic-resolution investigation using Cs-corrected STEM. <i>Materials Letters</i> , 2019, 238, 66-69.  | 2.6  | 11        |
| 49 | Experimental and DFT characterization of $\beta^2$ nano-phase and its interfaces in Al Zn Mg Cu alloys. <i>Acta Materialia</i> , 2019, 164, 207-219.   | 7.9  | 113       |
| 50 | Cluster on interface of LPSO phase and matrix in Mg-Gd-Y-Ni alloy: Atomic scale insight from HAADF-STEM. <i>Materials Letters</i> , 2019, 235, 71-75.  | 2.6  | 6         |
| 51 | Corrosion behavior of 2198 Al-Cu-Li alloy in different aging stages in 3.5 wt% NaCl aqueous solution. <i>Journal of Materials Research</i> , 2018, 33, 1011-1022.  | 2.6  | 19        |
| 52 | Fluorine-Free Synthesis of High-Purity Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> (T=OH, O) via Alkali Treatment. <i>Angewandte Chemie</i> , 2018, 130, 6223-6227.  | 2.0  | 459       |
| 53 | Fluorine-Free Synthesis of High-Purity Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> (T=OH, O) via Alkali Treatment. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 6115-6119.                                 | 13.8 | 809       |
| 54 | Unveiling the Interfaces between $\beta^2$ Precipitates in Mg-Gd-Y-Zr Alloy: Insights from Atomic-Scale HAADF-STEM. <i>Advanced Engineering Materials</i> , 2018, 20, 1700730.   | 3.5  | 2         |

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|----|--|------|-----------|
| 55 | Effects of Ca concentration on degradation behavior of Zn-x Ca alloys in Hank's solution. <i>Materials Letters</i> , 2018, 218, 193-196.   | 2.6  | 45        |
| 56 | Degradation of precipitation hardening in 7075 alloy subject to thermal exposure: A Cs-corrected STEM study. <i>Journal of Alloys and Compounds</i> , 2018, 741, 656-660.  | 5.5  | 21        |
| 57 | Influence of interactions between $\text{L}_{12}$ precipitates and long period stacking ordered structures on corrosion behaviors of Mg <sub>10</sub> Gd <sub>5</sub> Y <sub>2</sub> Zn <sub>0.5</sub> Zr (wt%) alloy. <i>Journal of Materials Research</i> , 2018, 33, 745-757. | 2.6  | 6         |
| 58 | Patterning Graphene Surfaces with Iron Oxide Embedded Mesoporous Polypyrrole and Derived N-Doped Carbon of Tunable Pore Size. <i>Small</i> , 2018, 14, 1702755.  | 10.0 | 73        |
| 59 | Nano-scale precipitation and phase growth in Mg-Gd binary alloy: An atomic-scale investigation using HAADF-STEM. <i>Materials and Design</i> , 2018, 137, 316-324.   | 7.0  | 56        |
| 60 | Quantum Dots of 1T Phase Transitional Metal Dichalcogenides Generated via Electrochemical Li Intercalation. <i>ACS Nano</i> , 2018, 12, 308-316.   | 14.6 | 110       |
| 61 | Ostwald Ripening Driven Exfoliation to Ultrathin Layered Double Hydroxides Nanosheets for Enhanced Oxygen Evolution Reaction. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 44518-44526.   | 8.0  | 53        |
| 62 | Synthesis, structure and nonlinear optical properties of solution-processed Bi <sub>2</sub> TeO <sub>5</sub> nanocrystals. <i>Journal of Materials Chemistry C</i> , 2018, 6, 10435-10440.   | 5.5  | 10        |
| 63 | Low and room temperatures tensile properties of a nanoprecipitate-strengthened (FeCoCr) <sub>40</sub> Ni <sub>40</sub> Al <sub>10</sub> Cu <sub>10</sub> high-entropy alloy. <i>Materials Characterization</i> , 2018, 145, 177-184.   | 4.4  | 9         |
| 64 | Effect of aging on the corrosion behavior of 6005 Al alloys in 3.5 wt% NaCl aqueous solution. <i>Journal of Materials Research</i> , 2018, 33, 1830-1838.  | 2.6  | 7         |
| 65 | Atomic-scale investigation into precipitated phase thickening in Al-Si-Mg-Cu alloy. <i>Journal of Alloys and Compounds</i> , 2018, 766, 973-978.   | 5.5  | 10        |
| 66 | Hierarchical Nanoporous Copper Fabricated by One-Step Dealloying Toward Ultrasensitive Surface-Enhanced Raman Sensing. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800332.  | 3.7  | 22        |
| 67 | An antenna/spacer/reflector based Au/BiVO <sub>4</sub> /WO <sub>3</sub> /Au nanopatterned photoanode for plasmon-enhanced photoelectrochemical water splitting. <i>Applied Catalysis B: Environmental</i> , 2018, 237, 763-771.  | 20.2 | 70        |
| 68 | Ordered stacking faults within nanosized silicon precipitates in aluminum alloy. <i>Materials Letters</i> , 2017, 190, 225-228.  | 2.6  | 4         |
| 69 | Precipitation in an Al-Zn-Mg-Cu alloy during isothermal aging: Atomic-scale HAADF-STEM investigation. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 691, 60-70.  | 5.6  | 112       |
| 70 | Deformation stimulated precipitation of a single-phase CoCrFeMnNi high entropy alloy. <i>Intermetallics</i> , 2017, 85, 90-97.   | 3.9  | 82        |
| 71 | Characterization of Gd-rich precipitates in a fully lamellar TiAl alloy. <i>Scripta Materialia</i> , 2017, 137, 50-54.   | 5.2  | 14        |
| 72 | Studies of the Co-pyrolysis of Oil Shale and Wheat Straw. <i>Energy &amp; Fuels</i> , 2017, 31, 6941-6950.   | 5.1  | 24        |

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|----|---|-----|-----------|
| 73 | Segregation of solute atoms in Mg-Ce binary alloy: atomic-scale novel structures observed by HAADF-STEM. Philosophical Magazine, 2017, 97, 1498-1508.   | 1.6 | 14        |
| 74 | Silver nanoparticles decorated nanoporous gold for surface-enhanced Raman scattering. Nanotechnology, 2017, 28, 055301.   | 2.6 | 15        |
| 75 | Mechanical Properties and Deformation Mechanisms of Mg-Gd-Y-Zr Alloy at Cryogenic and Elevated Temperatures. Journal of Materials Engineering and Performance, 2017, 26, 590-600.   | 2.5 | 6         |
| 76 | Nucleation interface of Al-Sb alloys on single crystal Al <sub>2</sub> O <sub>3</sub> substrate. Transactions of Nonferrous Metals Society of China, 2017, 27, 2104-2111.   | 4.2 | 0         |
| 77 | Study of age hardening in a Mg-2.2 wt%Nd alloy by in situ synchrotron X-ray diffraction and mechanical tests. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 708, 319-328.                       | 5.6 | 21        |
| 78 | Microstructural characterization of boron-rich boron carbide. Acta Materialia, 2017, 136, 202-214.  | 7.9 | 91        |
| 79 | Surface-enhanced Raman scattering from plasmonic Ag-nanocube@Au-nanospheres core@satellites. Journal of Raman Spectroscopy, 2017, 48, 217-223.  | 2.5 | 7         |
| 80 | Precipitation in Mg-Nd-Y-Zr-Ca Alloy during Isothermal Aging: A Comprehensive Atomic-Scale Study by Means of HAADF-STEM. Advanced Engineering Materials, 2017, 19, 1600244.   | 3.5 | 7         |
| 81 | Size and distance dependent fluorescence enhancement of nanoporous gold. Optics Express, 2017, 25, 9901.  | 3.4 | 12        |
| 82 | Unexpected Fe-enriched compounds observed in Mg-Ce alloy: An atomic-scale STEM investigation. Scanning, 2016, 38, 783-791.  | 1.5 | 2         |
| 83 | Nano-Size Zirconium-Enriched Cores in Mg-Gd-Y-Zr: An Atomic-Scale HAADF-STEM Study. Advanced Engineering Materials, 2016, 18, 1332-1336.  | 3.5 | 2         |
| 84 | The Effect of Thermal Exposure on the Microstructures and Mechanical Properties of 2198 Al-Li Alloy. Advanced Engineering Materials, 2016, 18, 1225-1233.   | 3.5 | 12        |
| 85 | Improving the Electrocatalytic Activity of Pt Monolayer Catalysts for Electrooxidation of Methanol, Ethanol and Ammonia by Tailoring the Surface Morphology of the Supporting Core. ChemElectroChem, 2016, 3, 537-551.                                      | 3.4 | 32        |
| 86 | Nano-Sized Cuboid-Shaped Phase in Mg-Nd-Y Alloy and its Behavior During Isothermal Aging. Microscopy and Microanalysis, 2016, 22, 1244-1250.  | 0.4 | 9         |
| 87 | Precipitation in Mg-Sm binary alloy during isothermal ageing: atomic-scale insights from scanning transmission electron microscopy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 669, 304-311. | 5.6 | 25        |
| 88 | Precipitation in Mg-Gd-Y-Zr Alloy: Atomic-scale insights into structures and transformations. Materials Characterization, 2016, 117, 76-83.   | 4.4 | 61        |
| 89 | Interactions between long-period stacking ordered phase and $\beta_2$ precipitate in Mg-Gd-Y-Zn-Zr alloy: Atomic-scale insights from HAADF-STEM. Materials Letters, 2016, 176, 223-227.   | 2.6 | 32        |
| 90 | Unravelling the Structure of $\beta_3$ in Mg-Gd-Zn: An Atomic-scale HAADF-STEM Investigation. Materials Characterization, 2016, 120, 345-348.   | 4.4 | 26        |

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|-----|---|------|-----------|
| 91  | Study of the thermal conversions of organic carbon of Huadian oil shale during pyrolysis. Energy Conversion and Management, 2016, 127, 284-292.   | 9.2  | 39        |
| 92  | Stress corrosion cracking behavior of cold-drawn 316 austenitic stainless steels in simulated PWR environment. Corrosion Science, 2016, 112, 576-584.   | 6.6  | 33        |
| 93  | Changes of components and chemical structure of bitumen-derived liquids during retorting Indonesian oil sands. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2016, 38, 1867-1874.                                      | 2.3  | 4         |
| 94  | AZ91 Magnesium Alloy/Porous Hydroxyapatite Composite for Potential Application in Bone Repair. Journal of Materials Science and Technology, 2016, 32, 858-864.  | 10.7 | 49        |
| 95  | Components and potential utilization of oil sands semicoke. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2016, 38, 2447-2453.   | 2.3  | 2         |
| 96  | Atomic-scale characterization of the equilibrium $\text{L}^2$ phase in Mg-Nd-Y alloy by means of HAADF-STEM. Scanning, 2016, 38, 743-746.   | 1.5  | 6         |
| 97  | Pt-Decorated highly porous flower-like Ni particles with high mass activity for ammonia electro-oxidation. Journal of Materials Chemistry A, 2016, 4, 11060-11068.  | 10.3 | 83        |
| 98  | In Situ FTIR Analysis of the Evolution of Functional Groups of Oil Shale During Pyrolysis. Energy & Fuels, 2016, 30, 5611-5616.   | 5.1  | 39        |
| 99  | Electro-deposited calcium phosphate compounds on graphene sheets: Blossoming flowers. Materials Letters, 2016, 179, 122-125.  | 2.6  | 2         |
| 100 | Atomic imaging of the coherent interface between orientedly-attached Mn <sub>3</sub> O <sub>4</sub> nanoparticles. Materials Characterization, 2016, 117, 144-148.  | 4.4  | 3         |
| 101 | Segregation of rare earth atoms in Mg-Gd-Y-Zr alloy after a 6-year natural ageing at room temperature: Atomic-scale direct imaging. Materials Letters, 2016, 174, 86-90.  | 2.6  | 6         |
| 102 | Facile template-free synthesis of vertically aligned polypyrrole nanosheets on nickel foams for flexible all-solid-state asymmetric supercapacitors. Nanoscale, 2016, 8, 8650-8657.   | 5.6  | 64        |
| 103 | Large-scale growth of sharp gold nano-cones for single-molecule SERS detection. RSC Advances, 2016, 6, 2882-2887.   | 3.6  | 36        |
| 104 | An Anion-Induced Hydrothermal Oriented-Explosive Strategy for the Synthesis of Porous Upconversion Nanocrystals. Theranostics, 2015, 5, 456-468.  | 10.0 | 13        |
| 105 | Microstructural Investigation of Friction-Stir-Welded 7005 Aluminum Alloy. Journal of Materials Engineering and Performance, 2015, 24, 4297-4306.   | 2.5  | 10        |
| 106 | Liquid-solid transition in mesophase separated olefin multiblock copolymers during crystallization. RSC Advances, 2015, 5, 40607-40619.   | 3.6  | 8         |
| 107 | Novel structures observed in Mg-Gd-Y-Zr during isothermal ageing by atomic-scale HAADF-STEM. Materials Letters, 2015, 152, 287-289.   | 2.6  | 29        |
| 108 | Microstructure evolution and mechanical properties of an Mg-Gd alloy subjected to surface mechanical attrition treatment. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 630, 146-154. | 5.6  | 58        |

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|-----|--|------|-----------|
| 109 | Hydrothermal Targeted Explosion Synthesis of Hollow/Porous Upconversion Nano and Microcrystals with Potential for Luminescent Displays and Biological Imaging. <i>ChemNanoMat</i> , 2015, 1, 128-134.                  | 2.8  | 6         |
| 110 | Shape-controlled synthesis of Pt-Ir nanocubes with preferential (100) orientation and their unusual enhanced electrocatalytic activities. <i>Science China Materials</i> , 2014, 57, 13-25.                            | 6.3  | 58        |
| 111 | Surface nanocrystallization induced by shot peening and its effect on corrosion resistance of 6061 aluminum alloy. <i>Journal of Materials Research</i> , 2014, 29, 3002-3010.   | 2.6  | 24        |
| 112 | Hot Deformation Behavior and Processing Maps of 2099 Al-Li Alloy. <i>Journal of Materials Engineering and Performance</i> , 2014, 23, 1929-1935.   | 2.5  | 18        |
| 113 | Green Synthesis of Large-Scale Highly Ordered Core@Shell Nanoporous Au@Ag Nanorod Arrays as Sensitive and Reproducible 3D SERS Substrates. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 15667-15675.       | 8.0  | 120       |
| 114 | Polyacrylic acid sodium salt film entrapped Ag-nanocubes as molecule traps for SERS detection. <i>Nano Research</i> , 2014, 7, 1177-1187.  | 10.4 | 29        |
| 115 | Corrosion behavior of 2099 Al-Li alloy in NaCl aqueous solution. <i>Journal of Materials Research</i> , 2014, 29, 1344-1353.   | 2.6  | 8         |
| 116 | Microstructural evolution and mechanical properties of Mg <sub>95.5</sub> Y <sub>3</sub> Zn <sub>1.5</sub> alloy processed by extrusion and ECAP. <i>Metals and Materials International</i> , 2014, 20, 285-290.       | 3.4  | 15        |
| 117 | Recrystallization and microstructural evolution during hot extrusion of Mg <sub>97</sub> Y <sub>2</sub> Zn <sub>1</sub> alloy. <i>Metals and Materials International</i> , 2014, 20, 489-497.                          | 3.4  | 7         |
| 118 | Ductility improvement by twinning and twin-slip interaction in a Mg-Y alloy. <i>Materials &amp; Design</i> , 2014, 56, 966-974.  | 5.1  | 84        |
| 119 | Optimization of Hot Extrusion Process Parameters of Mg <sub>97</sub> Y <sub>2</sub> Zn <sub>1</sub> Alloy Based on the Processing Maps. <i>Journal of Materials Engineering and Performance</i> , 2013, 22, 2528-2533. | 2.5  | 2         |
| 120 | Hot Compression Deformation Behavior and Processing Maps of Mg-Gd-Y-Zr Alloy. <i>Journal of Materials Engineering and Performance</i> , 2013, 22, 2458-2466.   | 2.5  | 25        |
| 121 | The effect of morphology on the stability of retained austenite in a quenched and partitioned steel. <i>Scripta Materialia</i> , 2013, 68, 321-324.  | 5.2  | 533       |
| 122 | Large-area Ag nanorod array substrates for SERS: AAO template-assisted fabrication, functionalization, and application in detection PCBs. <i>Journal of Raman Spectroscopy</i> , 2013, 44, 240-246.                    | 2.5  | 119       |
| 123 | Effect of Solid Solution Treatment on Microstructure and Mechanical Properties of Mg <sub>97</sub> Y <sub>2</sub> Zn <sub>1</sub> Alloy. <i>Journal of Materials Engineering and Performance</i> , 2013, 22, 523-527.  | 2.5  | 11        |
| 124 | Application of back-propagation neural network for controlling the front end bending phenomenon in plate rolling. <i>International Journal of Materials and Product Technology</i> , 2013, 46, 166.                    | 0.2  | 4         |
| 125 | Effect of zirconium addition on microstructure and mechanical properties of Mg <sub>97</sub> Y <sub>2</sub> Zn <sub>1</sub> alloy. <i>Transactions of Nonferrous Metals Society of China</i> , 2012, 22, 773-778.      | 4.2  | 8         |
| 126 | Mechanical properties of Mg-6Gd-1Y-0.5Zr alloy processed by low temperature thermo-mechanical treatment. <i>Transactions of Nonferrous Metals Society of China</i> , 2012, 22, 2351-2356.                              | 4.2  | 4         |



| #   | ARTICLE   | IF  | CITATIONS |
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| 141 | Biodegradable Behaviors in Simulated Body Fluid of Mg-Gd-Y-Zr Alloy with Micro-Arc Oxide Coating. Materials Science Forum, 0, 747-748, 295-300.   | 0.3 | 1         |