# Chang-Jiu Li

List of Publications by Year
in descending order

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| 373 | 13,807 | 19608 | 45213 |
|---|---|---|---|
| papers | citations | 61 h-index | 90 g-index |

| 389 | 389 | 389 | 6217 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Deposition characteristics of titanium coating in cold spraying. Surface and Coatings Technology, 2003, 167, 278-283. | 2.2 | 308 |
| 2 | Relationships Between the Microstructure and Properties of Thermally Sprayed Deposits. Journal of Thermal Spray Technology, 2002, 11, 365-374. | 1.6 | 277 |
| 3 | The 2016 Thermal Spray Roadmap. Journal of Thermal Spray Technology, 2016, 25, 1376-1440. | 1.6 | 243 |
| 4 | Examination of the Critical Velocity for Deposition of Particles in Cold Spraying. Journal of Thermal Spray Technology, 2006, 15, 212-222. | 1.6 | 187 |
| 5 | High velocity impact induced microstructure evolution during deposition of cold spray coatings: A review. Surface and Coatings Technology, 2014, 254, 11-20. | 2.2 | 165 |
| 6 | Quantitative characterization of the structure of plasma-sprayed Al2O3 coating by using copper electroplating. Thin Solid Films, 1991, 201, 241-252. | 0.8 | 158 |
| 7 | Effect of <scp><scp>TGO</scp></scp> Thickness on Thermal Cyclic Lifetime and Failure Mode of Plasmaâ€Sprayed <scp><scp>TBC</scp></scp>s. Journal of the American Ceramic Society, 2014, 97, 1226-1232. | 1.9 | 157 |
| 8 | On high velocity impact of micro-sized metallic particles in cold spraying. Applied Surface Science, 2006, 253, 2852-2862. | 3.1 | 155 |
| 9 | Microstructure and mechanical property of Ti and Ti6Al4V prepared by an in-situ shot peening assisted cold spraying. Materials and Design, 2015, 85, 527-533. | 3.3 | 149 |
| 10 | Material nucleation/growth competition tuning towards highly reproducible planar perovskite solar cells with efficiency exceeding 20%. Journal of Materials Chemistry A, 2017, 5, 6840-6848. | 5.2 | 149 |
| 11 | Improved Efficiency of over 10% in Dye-Sensitized Solar Cells with a Ruthenium Complex and an Organic Dye Heterogeneously Positioning on a Single TiO<sub>2</sub> Electrode. Journal of Physical Chemistry C, 2011, 115, 7747-7754. | 1.5 | 141 |
| 12 | Progress in ceramic materials and structure design toward advanced thermal barrier coatings. Journal of Advanced Ceramics, 2022, 11, 985-1068. | 8.9 | 135 |
| 13 | Evaporated-gas-induced splashing model for splat formation during plasma spraying. Surface and Coatings Technology, 2004, 184, 13-23. | 2.2 | 130 |
| 14 | Numerical simulation of deformation behavior of Al particles impacting on Al substrate and effect of surface oxide films on interfacial bonding in cold spraying. Applied Surface Science, 2007, 253, 5084-5091. | 3.1 | 130 |
| 15 | Effect of Annealing Treatment on the Microstructure and Properties of Cold-Sprayed Cu Coating. Journal of Thermal Spray Technology, 2006, 15, 206-211. | 1.6 | 127 |
| 16 | Microstructural characterization and abrasive wear performance of HVOF sprayed Cr3C2â€“NiCr coating. Surface and Coatings Technology, 2006, 200, 6749-6757. | 2.2 | 124 |
| 17 | Corrosion resistant nickel coating with strong adhesion on AZ31B magnesium alloy prepared by an in-situ shot-peening-assisted cold spray. Corrosion Science, 2018, 138, 105-115. | 3.0 | 123 |
| 18 | Highly stable carbon-based perovskite solar cell with a record efficiency of over 18% via hole transport engineering. Journal of Materials Science and Technology, 2019, 35, 987-993. | 5.6 | 123 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Relationships between feedstock structure, particle parameter, coating deposition, microstructure and properties for thermally sprayed conventional and nanostructured WCâ€“Co. International Journal of Refractory Metals and Hard Materials, 2013, 39, 2-17. | 1.7 | 122 |
| 20 | Formation of metastable phases in cold-sprayed soft metallic deposit. Surface and Coatings Technology, 2005, 198, 469-473. | 2.2 | 119 |
| 21 | Influence of substrate roughness on the bonding mechanisms of high velocity oxy-fuel sprayed coatings. Thin Solid Films, 2005, 485, 141-147. | 0.8 | 116 |
| 22 | Large-area high-efficiency perovskite solar cells based on perovskite films dried by the multi-flow air knife method in air. Journal of Materials Chemistry A, 2017, 5, 1548-1557. | 5.2 | 115 |
| 23 | Ionic conductivity and its temperature dependence of atmospheric plasma-sprayed yttria stabilized zirconia electrolyte. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2007, 137, 24-30. | 1.7 | 112 |
| 24 | Significant influence of particle surface oxidation on deposition efficiency, interface microstructure and adhesive strength of cold-sprayed copper coatings. Applied Surface Science, 2010, 256, 4953-4958. | 3.1 | 110 |
| 25 | Study of oxidation behavior of nanostructured NiCrAlY bond coatings deposited by cold spraying. Surface and Coatings Technology, 2008, 202, 3378-3384. | 2.2 | 104 |
| 26 | Study on impact fusion at particle interfaces and its effect on coating microstructure in cold spraying. Applied Surface Science, 2007, 254, 517-526. | 3.1 | 103 |
| 27 | Influence of Spray Materials and Their Surface Oxidation on the Critical Velocity in Cold Spraying. Journal of Thermal Spray Technology, 2010, 19, 95-101. | 1.6 | 102 |
| 28 | Optimal Design of a Novel Cold Spray Gun Nozzle at a Limited Space. Journal of Thermal Spray Technology, 2005, 14, 391-396. | 1.6 | 101 |
| 29 | Influence of TGO Composition on the Thermal Shock Lifetime of Thermal Barrier Coatings with Cold-sprayed MCrAlY Bond Coat. Journal of Thermal Spray Technology, 2010, 19, 168-177. | 1.6 | 98 |
| 30 | Relationship between particle erosion and lamellar microstructure for plasma-sprayed alumina coatings. Wear, 2006, 260, 1166-1172. | 1.5 | 97 |
| 31 | Characterization of Nanostructured WC-Co Deposited by Cold Spraying. Journal of Thermal Spray Technology, 2007, 16, 1011-1020. | 1.6 | 97 |
| 32 | Cobalt-substituted SrTi<sub>0.3</sub>Fe<sub>0.7</sub>O<sub>3â^Î´</sub>: a stable high-performance oxygen electrode material for intermediate-temperature solid oxide electrochemical cells. Energy and Environmental Science, 2018, 11, 1870-1879. | 15.6 | 93 |
| 33 | Modeling Aspects of High Velocity Impact of Particles in Cold Spraying by Explicit Finite Element Analysis. Journal of Thermal Spray Technology, 2009, 18, 921-933. | 1.6 | 92 |
| 34 | An effective approach for creating metallurgical self-bonding in plasma-spraying of NiCr-Mo coating by designing shell-core-structured powders. Acta Materialia, 2016, 110, 19-30. | 3.8 | 90 |
| 35 | Preparation of flexible perovskite solar cells by a gas pump drying method on a plastic substrate. Journal of Materials Chemistry A, 2016, 4, 3704-3710. | 5.2 | 87 |
| 36 | Dominant effect of carbide rebounding on the carbon loss during high velocity oxy-fuel spraying of Cr3C2â€“NiCr. Thin Solid Films, 2002, 419, 137-143. | 0.8 | 86 |

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| 37 | Cold spraying of Fe/Al powder mixture: Coating characteristics and influence of heat treatment on the phase structure. Applied Surface Science, 2008, 255, 2538-2544. | 3.1 | 86 |
| 38 | Development of Particle Interface Bonding in Thermal Spray Coatings: A Review. Journal of Thermal Spray Technology, 2013, 22, 192-206. | 1.6 | 86 |
| 39 | Critical bonding temperature for the splat bonding formation during plasma spraying of ceramic materials. Surface and Coatings Technology, 2013, 235, 841-847. | 2.2 | 86 |
| 40 | Thermal fatigue behavior of thermal barrier coatings with the MCrAlY bond coats by cold spraying and low-pressure plasma spraying. Surface and Coatings Technology, 2010, 205, 2225-2233. | 2.2 | 84 |
| 41 | Recent advancements, doping strategies and the future perspective of perovskite-based solid oxide fuel cells for energy conversion. Chemical Engineering Journal, 2022, 428, 132603. | 6.6 | 82 |
| 42 | Effect of sprayed powder particle size on the oxidation behavior of MCrAlY materials during high velocity oxygen-fuel deposition. Surface and Coatings Technology, 2003, 162, 31-41. | 2.2 | 78 |
| 43 | A theoretical model for prediction of deposition efficiency in cold spraying. Thin Solid Films, 2005, 489, 79-85. | 0.8 | 77 |
| 44 | Fracture toughness measurements of plasma-sprayed thermal barrier coatings using a modified four-point bending method. Surface and Coatings Technology, 2010, 204, 4066-4074. | 2.2 | 76 |
| 45 | Highly oxidation resistant and cost effective MCrAlY bond coats prepared by controlled atmosphere heat treatment. Surface and Coatings Technology, 2018, 347, 54-65. | 2.2 | 76 |
| 46 | Low temperature deposition and characterization of TiO2 photocatalytic film through cold spray. Applied Surface Science, 2008, 254, 3979-3982. | 3.1 | 75 |
| 47 | Low-temperature SnO<sub>2</sub>-modified TiO<sub>2</sub> yields record efficiency for normal planar perovskite solar modules. Journal of Materials Chemistry A, 2018, 6, 10233-10242. | 5.2 | 75 |
| 48 | Effect of densification processes on the properties of plasma-sprayed YSZ electrolyte coatings for solid oxide fuel cells. Surface and Coatings Technology, 2005, 190, 60-64. | 2.2 | 74 |
| 49 | Relationship Between Lamellar Structure and Elastic Modulus of Thermally Sprayed Thermal Barrier Coatings with Intra-splat Cracks. Journal of Thermal Spray Technology, 2015, 24, 1355-1367. | 1.6 | 74 |
| 50 | Sinteringâ€induced delamination of thermal barrier coatings by gradient thermal cyclic test. Journal of the American Ceramic Society, 2017, 100, 1820-1830. | 1.9 | 74 |
| 51 | Recent progress of perovskite-based electrolyte materials for solid oxide fuel cells and performance optimizing strategies for energy storage applications. Materials Research Bulletin, 2022, 146, 111612. | 2.7 | 74 |
| 52 | Microstructural and Mechanical Property Evolutions of Plasma-Sprayed YSZ Coating During High-Temperature Exposure: Comparison Study Between 8YSZ and 20YSZ. Journal of Thermal Spray Technology, 2013, 22, 1294-1302. | 1.6 | 71 |
| 53 | Ultra-high open-circuit voltage of perovskite solar cells induced by nucleation thermodynamics on rough substrates. Scientific Reports, 2017, 7, 46141. | 1.6 | 71 |
| 54 | Characterization of Microstructure of Nano-TiO<SUB>2</SUB> Coating Deposited by Vacuum Cold Spraying. Journal of Thermal Spray Technology, 2006, 15, 513-517. | 1.6 | 70 |

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| 55 | Non-parabolic isothermal oxidation kinetics of low pressure plasma sprayed MCrAlY bond coat. Applied Surface Science, 2017, 406, 99-109. | 3.1 | 69 |
| 56 | Influence of Powder Porous Structure on the Deposition Behavior of Cold-Sprayed WC-12Co Coatings. Journal of Thermal Spray Technology, 2008, 17, 742-749. | 1.6 | 68 |
| 57 | Conditions and mechanisms for the bonding of a molten ceramic droplet to a substrate after high-speed impact. Acta Materialia, 2016, 119, 9-25. | 3.8 | 67 |
| 58 | Deposition of fully dense Al-based coatings via in-situ micro-forging assisted cold spray for excellent corrosion protection of AZ31B magnesium alloy. Journal of Alloys and Compounds, 2019, 806, 1116-1126. | 2.8 | 66 |
| 59 | Highly oxidation resistant MCrAlY bond coats prepared by heat treatment under low oxygen content. Surface and Coatings Technology, 2019, 368, 192-201. | 2.2 | 66 |
| 60 | Simultaneous strengthening and toughening effects in WCâ€“(nanoWCâ€“Co). Scripta Materialia, 2012, 66, 777-780. | 2.6 | 65 |
| 61 | Optimization of In-Situ Shot-Peening-Assisted Cold Spraying Parameters for Full Corrosion Protection of Mg Alloy by Fully Dense Al-Based Alloy Coating. Journal of Thermal Spray Technology, 2017, 26, 173-183. | 1.6 | 65 |
| 62 | Room-temperature nitrogen-dioxide sensors based on ZnO1â^'x coatings deposited by solution precursor plasma spray. Sensors and Actuators B: Chemical, 2017, 242, 102-111. | 4.0 | 65 |
| 63 | Evolution of Lamellar Interface Cracks During Isothermal Cyclic Test of Plasma-Sprayed 8YSZ Coating with a Columnar-Structured YSZ Interlayer. Journal of Thermal Spray Technology, 2013, 22, 1374-1382. | 1.6 | 64 |
| 64 | Deposition behavior, microstructure and mechanical properties of an in-situ micro-forging assisted cold spray enabled additively manufactured Inconel 718 alloy. Materials and Design, 2018, 155, 384-395. | 3.3 | 64 |
| 65 | Examination of factors influencing the bond strength of high velocity oxy-fuel sprayed coatings. Surface and Coatings Technology, 2006, 200, 2923-2928. | 2.2 | 63 |
| 66 | Influence of through-lamella grain growth on ionic conductivity of plasma-sprayed yttria-stabilized zirconia as an electrolyte in solid oxide fuel cells. Journal of Power Sources, 2008, 176, 31-38. | 4.0 | 63 |
| 67 | Visible light enhanced black NiO sensors for ppb-level NO2 detection at room temperature. Ceramics International, 2019, 45, 4253-4261. | 2.3 | 63 |
| 68 | Effect of impact-induced melting on interface microstructure and bonding of cold-sprayed zinc coating. Applied Surface Science, 2010, 257, 1516-1523. | 3.1 | 62 |
| 69 | Sintering induced the failure behavior of dense vertically crack and lamellar structured TBCs with equivalent thermal insulation performance. Ceramics International, 2017, 43, 15459-15465. | 2.3 | 62 |
| 70 | Optimal design of a convergent-barrel cold spray nozzle by numerical method. Applied Surface Science, 2006, 253, 708-713. | 3.1 | 61 |
| 71 | Performance of YSZ electrolyte layer deposited by atmospheric plasma spraying for cermet-supported tubular SOFC. Vacuum, 2004, 73, 699-703. | 1.6 | 60 |
| 72 | Fabrication of Nano-TiO2 Coating for Dye-Sensitized Solar Cell by Vacuum Cold Spraying at Room Temperature. Journal of Thermal Spray Technology, 2007, 16, 893-897. | 1.6 | 60 |

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| 73 | A comprehensive mechanism for the sintering of plasma-sprayed nanostructured thermal barrier coatings. Ceramics International, 2017, 43, 9600-9615. | 2.3 | 60 |
| 74 | Transport and deposition behaviors of vapor coating materials in plasma spray-physical vapor deposition. Applied Surface Science, 2019, 486, 80-92. | 3.1 | 60 |
| 75 | High-temperature oxidation behavior of CuAlNiCrFe high-entropy alloy bond coats deposited using high-speed laser cladding process. Surface and Coatings Technology, 2020, 398, 126093. | 2.2 | 60 |
| 76 | Influence of Microstructure on the Ionic Conductivity of Plasma-Sprayed Yttria-Stabilized Zirconia Deposits. Journal of the American Ceramic Society, 2008, 91, 3931-3936. | 1.9 | 59 |
| 77 | High-Temperature Erosion of HVOF Sprayed Cr3C2-NiCr Coating and Mild Steel for Boiler Tubes. Journal of Thermal Spray Technology, 2008, 17, 782-787. | 1.6 | 58 |
| 78 | Effect of heat treatment on the microstructure and property of cold-sprayed nanostructured FeAl/Al2O3 intermetallic composite coating. Vacuum, 2008, 83, 146-152. | 1.6 | 58 |
| 79 | The lamellar structure of a detonation gun sprayed Al2O3 coating. Surface and Coatings Technology, 1996, 82, 254-258. | 2.2 | 57 |
| 80 | Cost effective perovskite solar cells with a high efficiency and open-circuit voltage based on a perovskite-friendly carbon electrode. Journal of Materials Chemistry A, 2018, 6, 8271-8279. | 5.2 | 57 |
| 81 | Gradient thermal cyclic behaviour of La2Zr2O7/YSZ DCL-TBCs with equivalent thermal insulation performance. Journal of the European Ceramic Society, 2018, 38, 1888-1896. | 2.8 | 57 |
| 82 | Effect of solid carbide particle size on deposition behaviour, microstructure and wear performance of HVOF cermet coatings. Materials Science and Technology, 2004, 20, 1087-1096. | 0.8 | 56 |
| 83 | Transient Contact Pressure During Flattening of Thermal Spray Droplet and Its Effect on Splat Formation. Journal of Thermal Spray Technology, 2004, 13, 229-238. | 1.6 | 56 |
| 84 | Cold spraying of Alâ€“Sn binary alloy: Coating characteristics and particle bonding features. Surface and Coatings Technology, 2008, 202, 1681-1687. | 2.2 | 56 |
| 85 | Multiple strengthening mechanisms of cold-sprayed cBNp/NiCrAl composite coating. Surface and Coatings Technology, 2011, 205, 4808-4813. | 2.2 | 56 |
| 86 | Comprehensive dynamic failure mechanism of thermal barrier coatings based on a novel crack propagation and TGO growth coupling model. Ceramics International, 2018, 44, 22556-22566. | 2.3 | 56 |
| 87 | Microstructural Characterization of Cold-Sprayed Nanostructured FeAl Intermetallic Compound Coating and its Ball-Milled Feedstock Powders. Journal of Thermal Spray Technology, 2007, 16, 669-676. | 1.6 | 55 |
| 88 | The influence of temperature gradient across YSZ on thermal cyclic lifetime of plasma-sprayed thermal barrier coatings. Ceramics International, 2015, 41, 11046-11056. | 2.3 | 55 |
| 89 | Performance evaluation of highly active and novel La0.7Sr0.3Ti0.1Fe0.6Ni0.3O3-Î´ material both as cathode and anode for intermediate-temperature symmetrical solid oxide fuel cell. Journal of Power Sources, 2020, 472, 228498. | 4.0 | 54 |
| 90 | Influence of substrate hardness on deposition behavior of single porous WC-12Co particle in cold spraying. Surface and Coatings Technology, 2008, 203, 384-390. | 2.2 | 53 |

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| 91 | Effect of spray parameters on the electrical conductivity of plasma-sprayed La1â^'xSrxMnO3 coating for the cathode of SOFCs. Surface and Coatings Technology, 2005, 198, 278-282. | 2.2 | 52 |
| 92 | Vacuum heat treatment mechanisms promoting the adhesion strength of thermally sprayed metallic coatings. Surface and Coatings Technology, 2018, 344, 102-110. | 2.2 | 52 |
| 93 | Prolong the durability of La2Zr2O7/YSZ TBCs by decreasing the cracking driving force in ceramic coatings. Journal of the European Ceramic Society, 2018, 38, 5482-5488. | 2.8 | 51 |
| 94 | Effect of Particle State on the Adhesive Strength of HVOF Sprayed Metallic Coating. Journal of Thermal Spray Technology, 2002, 11, 523-529. | 1.6 | 50 |
| 95 | Influence of substrate hardness transition on built-up of nanostructured WCâ€"12Co by cold spraying. Applied Surface Science, 2010, 256, 2263-2268. | 3.1 | 50 |
| 96 | Atmospheric plasma-sprayed La<sub>0.8</sub>Sr<sub>0.2</sub>Ga<sub>0.8</sub>Mg<sub>0.2</sub>O<sub>3</sub> electrolyte membranes for intermediate-temperature solid oxide fuel cells. Journal of Materials Chemistry A, 2015, 3, 7535-7553. | 5.2 | 50 |
| 97 | The Correlation of the TBC Lifetimes in Burner Cycling Test with Thermal Gradient and Furnace Isothermal Cycling Test by TGO Effects. Journal of Thermal Spray Technology, 2017, 26, 378-387. | 1.6 | 50 |
| 98 | Enhanced corrosion resistance of cold-sprayed and shot-peened aluminum coatings on LA43M magnesium alloy. Surface and Coatings Technology, 2020, 394, 125865. | 2.2 | 50 |
| 99 | Electrochemical method to evaluate the connected porosity in ceramic coatings. Thin Solid Films, 1988, 156, 315-326. | 0.8 | 49 |
| 100 | Preliminary Study of Performance of Dye-Sensitized Solar Cell of Nano-TiO<SUB>2</SUB> Coating Deposited by Vacuum Cold Spraying. Materials Transactions, 2006, 47, 1703-1709. | 0.4 | 49 |
| 101 | High strain rate induced localized amorphization in cubic BN/NiCrAl nanocomposite through high velocity impact. Scripta Materialia, 2011, 65, 581-584. | 2.6 | 49 |
| 102 | Effect of spray conditions on deposition behavior and microstructure of cold sprayed Ni coatings sprayed with a porous electrolytic Ni powder. Surface and Coatings Technology, 2016, 289, 85-93. | 2.2 | 49 |
| 103 | Gaseous material capacity of open plasma jet in plasma spray-physical vapor deposition process. Applied Surface Science, 2018, 428, 877-884. | 3.1 | 49 |
| 104 | Thermodynamic conditions for cluster formation in supersaturated boundary layer during plasma spray-physical vapor deposition. Applied Surface Science, 2019, 471, 950-959. | 3.1 | 49 |
| 105 | Morphology and Size Evolution of Interlamellar Two-Dimensional Pores in Plasma-Sprayed La2Zr2O7 Coatings During Thermal Exposure at 1300ÂÂ°C. Journal of Thermal Spray Technology, 2015, 24, 739-748. | 1.6 | 48 |
| 106 | Microstructure and photocatalytic performance of high velocity oxy-fuel sprayed TiO2 coatings. Thin Solid Films, 2004, 466, 81-85. | 0.8 | 47 |
| 107 | Mechanical property and wear performance dependence on processing condition for cold-sprayed WC-(nanoWC-Co). Applied Surface Science, 2015, 332, 80-88. | 3.1 | 47 |
| 108 | Large sized cubic BN reinforced nanocomposite with improved abrasive wear resistance deposited by cold spray. Materials and Design, 2015, 83, 249-256. | 3.3 | 46 |

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|---|---|---|---|
| 109 | Formation of NiAl Intermetallic Compound by Cold Spraying of Ball-Milled Ni/Al Alloy Powder Through Postannealing Treatment. Journal of Thermal Spray Technology, 2008, 17, 715-720. | 1.6 | 45 |
| 110 | A Novel Plasma-Sprayed Durable Thermal Barrier Coating with a Well-Bonded YSZ Interlayer Between Porous YSZ and Bond Coat. Journal of Thermal Spray Technology, 2012, 21, 383-390. | 1.6 | 45 |
| 111 | Modeling Thermal Conductivity of Thermally Sprayed Coatings with Intrasplat Cracks. Journal of Thermal Spray Technology, 2013, 22, 1328-1336. | 1.6 | 45 |
| 112 | Experimental determination of the relationship between flattening degree and Reynolds number for spray molten droplets. Surface and Coatings Technology, 2005, 191, 375-383. | 2.2 | 44 |
| 113 | Influence of Deposition Temperature on the Microstructures and Properties of Plasma-Sprayed Al2O3 Coatings. Journal of Thermal Spray Technology, 2011, 20, 160-169. | 1.6 | 44 |
| 114 | Sintering characteristics of plasma-sprayed TBCs: Experimental analysis and an overall modelling. Ceramics International, 2018, 44, 2982-2990. | 2.3 | 44 |
| 115 | Solid-state additive manufacturing high performance aluminum alloy 6061 enabled by an in-situ micro-forging assisted cold spray. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 776, 139024. | 2.6 | 44 |
| 116 | Effect of annealing on the microstructure and erosion performance of cold-sprayed FeAl intermetallic coatings. Surface and Coatings Technology, 2011, 205, 5502-5509. | 2.2 | 43 |
| 117 | Study on gas permeation behaviour through atmospheric plasma-sprayed yttria stabilized zirconia coating. Surface and Coatings Technology, 2008, 202, 5055-5061. | 2.2 | 41 |
| 118 | Thermal Stability of Microstructure and Hardness of Cold-Sprayed cBN/NiCrAl Nanocomposite Coating. Journal of Thermal Spray Technology, 2012, 21, 578-585. | 1.6 | 41 |
| 119 | Propagation feature of cracks in plasma-sprayed YSZ coatings under gradient thermal cycling. Ceramics International, 2015, 41, 3481-3489. | 2.3 | 41 |
| 120 | Properties evolution of plasma-sprayed La2Zr2O7 coating induced by pore structure evolution during thermal exposure. Ceramics International, 2016, 42, 15485-15492. | 2.3 | 41 |
| 121 | Hierarchical Formation of Intrasplat Cracks in Thermal Spray Ceramic Coatings. Journal of Thermal Spray Technology, 2016, 25, 959-970. | 1.6 | 41 |
| 122 | A novel structure of YSZ coatings by atmospheric laminar plasma spraying technology. Scripta Materialia, 2018, 153, 73-76. | 2.6 | 41 |
| 123 | Effect of composition of NiO/YSZ anode on the polarization characteristics of SOFC fabricated by atmospheric plasma spraying. International Journal of Hydrogen Energy, 2010, 35, 2964-2969. | 3.8 | 40 |
| 124 | A new approach to prepare fully dense Cu with high conductivities and anti-corrosion performance by cold spray. Journal of Alloys and Compounds, 2018, 740, 406-413. | 2.8 | 40 |
| 125 | Improvement of Adhesion and Cohesion in Plasma-Sprayed Ceramic Coatings by Heterogeneous Modification of Nonbonded Lamellar Interface Using High Strength Adhesive Infiltration. Journal of Thermal Spray Technology, 2013, 22, 36-47. | 1.6 | 39 |
| 126 | Superior oxidation resistant MCrAlY bond coats prepared by controlled atmosphere heat treatment. Corrosion Science, 2020, 170, 108653. | 3.0 | 39 |

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| 127 | Sintering behavior of BaCe0.7Zr0.1Y0.2O3-Î´ electrolyte at 1150ÂÂ°C with the utilization of CuO and Bi2O3 as sintering aids and its electrical performance. International Journal of Hydrogen Energy, 2022, 47, 7403-7414. | 3.8 | 39 |
| 128 | Modification of microstructure and electrical conductivity of plasma-sprayed YSZ deposit through post-densification process. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 428, 98-105. | 2.6 | 38 |
| 129 | Erosion Performance of HVOF-Sprayed Cr3C2-NiCr Coatings. Journal of Thermal Spray Technology, 2007, 16, 557-565. | 1.6 | 38 |
| 130 | Effect of Chemical Compositions and Surface Morphologies of MCrAlY Coating on Its Isothermal Oxidation Behavior. Journal of Thermal Spray Technology, 2011, 20, 121-131. | 1.6 | 37 |
| 131 | Characterization of Plasma Jet in Plasma Spray-Physical Vapor Deposition of YSZ Using a <80ÂkW Shrouded Torch Based on Optical Emission Spectroscopy. Journal of Thermal Spray Technology, 2015, 24, 1038-1045. | 1.6 | 37 |
| 132 | Combined effect of internal and external factors on sintering kinetics of plasma-sprayed thermal barrier coatings. Journal of the European Ceramic Society, 2019, 39, 1860-1868. | 2.8 | 37 |
| 133 | Dense Mn1.5Co1.5O4 coatings with excellent long-term stability and electrical performance under the SOFC cathode environment. Applied Surface Science, 2020, 499, 143726. | 3.1 | 37 |
| 134 | Isothermal Oxidation Behavior of NiCoCrAlTaY Coating Deposited by High Velocity Air-Fuel Spraying. Journal of Thermal Spray Technology, 2012, 21, 391-399. | 1.6 | 36 |
| 135 | Strain-induced multiscale structural changes in lamellar thermal barrier coatings. Ceramics International, 2017, 43, 2252-2266. | 2.3 | 35 |
| 136 | Fast Drying Boosted Performance Improvement of Low-Temperature Paintable Carbon-Based Perovskite Solar Cell. ACS Sustainable Chemistry and Engineering, 2017, 5, 9758-9765. | 3.2 | 35 |
| 137 | Thermal Failure of Nanostructured Thermal Barrier Coatings with Cold-Sprayed Nanostructured NiCrAlY Bond Coat. Journal of Thermal Spray Technology, 2008, 17, 838-845. | 1.6 | 34 |
| 138 | Effect of the powder particle structure and substrate hardness during vacuum cold spraying of Al 2 O 3. Ceramics International, 2017, 43, 4390-4398. | 2.3 | 34 |
| 139 | Edge Effect on Crack Patterns in Thermally Sprayed Ceramic Splats. Journal of Thermal Spray Technology, 2017, 26, 302-314. | 1.6 | 34 |
| 140 | Effect of types of ceramic materials in aggregated powder on the adhesive strength of high velocity oxy-fuel sprayed cermet coatings. Surface and Coatings Technology, 2001, 145, 113-120. | 2.2 | 33 |
| 141 | Examination of Substrate Surface Melting-Induced Splashing During Splat Formation in Plasma Spraying. Journal of Thermal Spray Technology, 2006, 15, 717-724. | 1.6 | 33 |
| 142 | Epitaxial growth during the rapid solidification of plasma-sprayed molten TiO 2 splat. Acta Materialia, 2017, 134, 66-80. | 3.8 | 33 |
| 143 | Dependence of scale thickness on the breaking behavior of the initial oxide on plasma spray bond coat surface during vacuum pre-treatment. Applied Surface Science, 2017, 397, 125-132. | 3.1 | 33 |
| 144 | Plasma sprayâ€“physical vapor deposition toward advanced thermal barrier coatings: a review. Rare Metals, 2020, 39, 479-497. | 3.6 | 33 |

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| 145 | Phase Formation of Nano-TiO<SUB>2</SUB> Particles during Flame Spraying with Liquid Feedstock. Journal of Thermal Spray Technology, 2005, 14, 480-486. | 1.6 | 32 |
| 146 | Influence of Annealing on Photocatalytic Performance and Adhesion of Vacuum Cold-Sprayed Nanostructured TiO2 Coating. Journal of Thermal Spray Technology, 2007, 16, 873-880. | 1.6 | 32 |
| 147 | Effect of in-flight particle velocity on the performance of plasma-sprayed YSZ electrolyte coating for solid oxide fuel cells. Surface and Coatings Technology, 2008, 202, 2654-2660. | 2.2 | 32 |
| 148 | Stage-sensitive microstructural evolution of nanostructured TBCs during thermal exposure. Journal of the European Ceramic Society, 2018, 38, 3325-3332. | 2.8 | 32 |
| 149 | High stability SrTi<sub>1â^'x</sub>Fe<sub>x</sub>O<sub>3â^'Î´</sub> electrodes for oxygen reduction and oxygen evolution reactions. Journal of Materials Chemistry A, 2019, 7, 21447-21458. | 5.2 | 32 |
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