

Chang-Jiu Li

List of Publications by Year in descending order

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373
papers

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19608

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389
docs citations

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times ranked

6217
citing authors

#	ARTICLE	IF	CITATIONS
1	Oxidation behavior and interface diffusion of porous metal supported SOFCs with all plasma sprayed functional layers in air at 650oC. International Journal of Green Energy, 2022, 19, 818-826.	2.1	4
2	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
3	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
4	Microstructure and Ablation Behavior of Low-Pressure Plasma Sprayed ZrB2 Coatings Down to 100 Pa. Journal of Thermal Spray Technology, 2022, 31, 282-296.	1.6	1
5	Plasma-Sprayed (Bi2O3)0.705 (Er2O3)0.245 (WO3)0.05 Electrolyte for Intermediate-Temperature Solid Oxide Fuel Cells (IT-SOFCs). Journal of Thermal Spray Technology, 2022, 31, 297-306.	1.6	4
6	Recent Research Advances in Plasma Spraying of Bulk-Like Dense Metal Coatings with Metallurgically Bonded Lamellae. Journal of Thermal Spray Technology, 2022, 31, 5-27.	1.6	15
7	Sintering behavior of BaCe0.7Zr0.1Y0.2O3-Î electrolyte at 1150Â°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
8	Critical scale grain size for optimal lifetime of TBCs. Journal of Materials Science and Technology, 2022, 115, 241-250.	5.6	12
9	Achieving high anti-sintering performance of plasma-sprayed YSZ thermal barrier coatings through pore structure design. Surface and Coatings Technology, 2022, 435, 128259.	2.2	19
10	The Bonding Formation during Thermal Spraying of Ceramic Coatings: A Review. Journal of Thermal Spray Technology, 2022, 31, 780-817.	1.6	20
11	Li3PO4 electrolyte of high conductivity for all-solid-state lithium battery prepared by plasma spray. Journal of the European Ceramic Society, 2022, 42, 4239-4247.	2.8	3
12	Thermally sprayed MCO/FeCr24 interconnector with improved stability for tubular segmented-in-series SOFCs. Applied Surface Science, 2022, 587, 152861.	3.1	7
13	Progress in ceramic materials and structure design toward advanced thermal barrier coatings. Journal of Advanced Ceramics, 2022, 11, 985-1068.	8.9	135
14	Narrow and Thin Copper Linear Pattern Deposited by Vacuum Cold Spraying and Deposition Behavior Simulation. Journal of Thermal Spray Technology, 2021, 30, 571-583.	1.6	10
15	Lightweight epoxy-based abradable seal coating with high bonding strength. Journal of Materials Science and Technology, 2021, 69, 129-137.	5.6	14
16	Dynamic evolution of oxide scale on the surfaces of feed stock particles from cracking and segmenting to peel-off while cold spraying copper powder having a high oxygen content. Journal of Materials Science and Technology, 2021, 67, 105-115.	5.6	23
17	Improving deposition efficiency and inter-particle bonding of cold sprayed Cu through removing the surficial oxide scale of the feedstock powder. Surface and Coatings Technology, 2021, 407, 126709.	2.2	13
18	Enhanced Corrosion Resistance of a Double Ceramic Composite Coating Deposited by a Novel Method on Magnesium-Lithium Alloy (LA43M) Substrates. Journal of Thermal Spray Technology, 2021, 30, 680-693.	1.6	1

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19	Plasma-Sprayed High-Performance (Bi ₂ O ₃) _{0.75} (Y ₂ O ₃) _{0.25} Electrolyte for Intermediate-Temperature Solid Oxide Fuel Cells (IT-SOFCs). <i>Journal of Thermal Spray Technology</i> , 2021, 30, 196-204.	1.6	11
20	Effect of Powder Particle Size and Spray Parameters on the Ni/Al Reaction During Plasma Spraying of Ni-Al Composite Powders. <i>Journal of Thermal Spray Technology</i> , 2021, 30, 181-195.	1.6	11
21	Highly active and novel A-site deficient symmetric electrode material (Sr _{0.3} La _{0.7}) _{1-x} (Fe _{0.7} Ti _{0.3}) _{0.9} Ni _{0.1} O _{3-δ} and its effect on electrochemical performance of SOFCs. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 8778-8791.	3.8	25
22	Performance and Stability of Plasma-Sprayed 10 ^{μm} Self-sealing Metal-Supported Solid Oxide Fuel Cells. <i>Journal of Thermal Spray Technology</i> , 2021, 30, 1059-1068.	1.6	8
23	Cold spray (CS) deposition of a durable silver coating with high infrared reflectivity for radiation energy saving in the polysilicon CVD reactor. <i>Surface and Coatings Technology</i> , 2021, 409, 126841.	2.2	8
24	Effect of coating composition on the micro-galvanic dissolution behavior and antifouling performance of plasma-sprayed laminated-structured Cu Ti composite coating. <i>Surface and Coatings Technology</i> , 2021, 410, 126963.	2.2	6
25	Microstructural analysis of highly active cathode material La _{0.7} Sr _{0.3} Ti _{0.15} Fe _{0.65} Ni _{0.2} O _{3-δ} (LSTFN) by optimizing different processing parameters. <i>Ceramics International</i> , 2021, 47, 10893-10904.	2.3	15
26	Fabrication of Nanostructured Cadmium Selenide Thin Films for Optoelectronics Applications. <i>Frontiers in Chemistry</i> , 2021, 9, 661723.	1.8	9
27	Ni coatings for corrosion protection of Mg alloys prepared by an in-situ micro-forging assisted cold spray: Effect of powder feedstock characteristics. <i>Corrosion Science</i> , 2021, 184, 109397.	3.0	22
28	Capturing cold-spray bonding features of pure Cu from in situ deformation behavior using a high-accuracy material model. <i>Surface and Coatings Technology</i> , 2021, 413, 127087.	2.2	5
29	Sintering behavior and electrochemical performance of A-site deficient Sr _x Ti _{0.3} Fe _{0.7-3x} oxygen electrodes for solid oxide electrochemical cells. <i>Ceramics International</i> , 2021, 47, 25051-25058.	2.3	13
30	Numerical Simulation of Plasma Jet Characteristics under Very Low-Pressure Plasma Spray Conditions. <i>Coatings</i> , 2021, 11, 726.	1.2	9
31	Novel long laminar plasma sprayed hybrid structure thermal barrier coatings for high-temperature anti-sintering and volcanic ash corrosion resistance. <i>Journal of Materials Science and Technology</i> , 2021, 79, 141-146.	5.6	6
32	Plasma-sprayed lanthanum-doped strontium titanate as an interconnect for solid oxide fuel cells: Effects of powder size and process conditions. <i>Journal of Alloys and Compounds</i> , 2021, 876, 160212.	2.8	6
33	Numerical Analysis of the Interactions between Plasma Jet and Powder Particles in PS-PVD Conditions. <i>Coatings</i> , 2021, 11, 1154.	1.2	0
34	Preparation of bulk-like La _{0.8} Sr _{0.2} Ga _{0.8} Mg _{0.2} O _{3-δ} coatings for porous metal-supported solid oxide fuel cells via plasma spraying at increased particle temperatures. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 32655-32664.	3.8	8
35	TGO and Al diffusion behavior of CuAl _x NiCrFe high-entropy alloys fabricated by high-speed laser cladding for TBC bond coats. <i>Corrosion Science</i> , 2021, 192, 109781.	3.0	21
36	In-situ heating effect of laminar plasma jet during Mo coatings deposition. <i>Materials Letters</i> , 2021, 305, 130743.	1.3	1

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37	Enhancement of Corrosion Resistance and Tribological Properties of LA43M Mg Alloy by Cold-Sprayed Aluminum Coatings Reinforced with Alumina and Carbon Nanotubes. <i>Journal of Thermal Spray Technology</i> , 2021, 30, 668-679.	1.6	10
38	Enhancing the hot-corrosion resistance of atmospheric plasma sprayed Ni-based coatings by adding a deoxidizer. <i>Materials and Design</i> , 2021, 211, 110154.	3.3	12
39	Towards better understanding supersonic impact-bonding behavior of cold sprayed 6061-T6 aluminum alloy based on a high-accuracy material model. <i>Additive Manufacturing</i> , 2021, 48, 102469.	1.7	2
40	Large-grain γ -Al ₂ O ₃ enabling ultra-high oxidation-resistant MCrAlY bond coats by surface pre-agglomeration treatment. <i>Corrosion Science</i> , 2020, 163, 108275.	3.0	31
41	Dense Mn _{1.5} Co _{1.5} O ₄ coatings with excellent long-term stability and electrical performance under the SOFC cathode environment. <i>Applied Surface Science</i> , 2020, 499, 143726.	3.1	37
42	Improving WC-Co coating adhesive strength on rough substrate: Finite element modeling and experiment. <i>Journal of Materials Science and Technology</i> , 2020, 37, 1-8.	5.6	16
43	A Novel Strategy for Depositing Dense Self-fluxing Alloy Coatings with Sufficiently Bonded Splats by One-Step Atmospheric Plasma Spraying. <i>Journal of Thermal Spray Technology</i> , 2020, 29, 173-184.	1.6	15
44	Effects of Powder Structure and Size on Gd ₂ O ₃ Preferential Vaporization During Plasma Spraying of Gd ₂ Zr ₂ O ₇ . <i>Journal of Thermal Spray Technology</i> , 2020, 29, 105-114.	1.6	5
45	Improving adhesive strength of WC-CoCr coating with novel bimodal roughening substrate: Finite element modeling. <i>Ceramics International</i> , 2020, 46, 10481-10489.	2.3	0
46	Morphology of composite coatings formed on Mo1 substrate using hot-dip aluminising and micro-arc oxidation techniques. <i>Applied Surface Science</i> , 2020, 508, 144761.	3.1	10
47	Effect of water environment on particle deposition of underwater cold spray. <i>Applied Surface Science</i> , 2020, 506, 144542.	3.1	17
48	Optimization of Plasma-Sprayed Lanthanum Chromite Interconnector Through Powder Design and Critical Process Parameters Control. <i>Journal of Thermal Spray Technology</i> , 2020, 29, 212-222.	1.6	12
49	Development of ScSZ Electrolyte by Very Low Pressure Plasma Spraying for High-Performance Metal-Supported SOFCs. <i>Journal of Thermal Spray Technology</i> , 2020, 29, 223-231.	1.6	17
50	Plasma-Sprayed Al Alloy Coating with Enhanced Lamellar Bonding Through Novel Self-Bonding Strategy. <i>Jom</i> , 2020, 72, 4604-4612.	0.9	2
51	Self-Sealing Metal-Supported SOFC Fabricated by Plasma Spraying and Its Performance under Unbalanced Gas Pressure. <i>Journal of Thermal Spray Technology</i> , 2020, 29, 2001-2011.	1.6	10
52	High performance of ceramic current collector fabricated at 550°C through in-situ joining of reduced Mn _{1.5} Co _{1.5} O ₄ for metal-supported solid oxide fuel cells. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 29123-29130.	3.8	7
53	Deposition and oxidation behavior of atmospheric laminar plasma sprayed Mo coatings from 200 μ m to 400 μ m under 20kW: Numerical and experimental analyses. <i>Surface and Coatings Technology</i> , 2020, 400, 126245.	2.2	9
54	Study on Deposition Behavior of Less Than 5 μ m YSZ Particles in VLPPS. <i>Journal of Thermal Spray Technology</i> , 2020, 29, 1708-1717.	1.6	3

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55	Advanced oxygen-electrode-supported solid oxide electrochemical cells with Sr(Ti,Fe)O _{3-δ} -based fuel electrodes for electricity generation and hydrogen production. Journal of Materials Chemistry A, 2020, 8, 25867-25879.	5.2	16
56	Fabrication of Metal Matrix Composites via High-Speed Particle Implantation. Journal of Thermal Spray Technology, 2020, 29, 1910-1925.	1.6	1
57	Self-Bonding Effect Development for Plasma Spraying of Stainless Steel Coating Through Using Mo-Clad Stainless Steel Powders. Jom, 2020, 72, 4613-4623.	0.9	3
58	Splash involved deposition behavior and erosion mechanism of long laminar plasma sprayed NiCrBSi coatings. Surface and Coatings Technology, 2020, 395, 125939.	2.2	8
59	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
60	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
61	Performance evaluation of highly active and novel La _{0.7} Sr _{0.3} Ti _{0.1} Fe _{0.6} Ni _{0.3} O _{3-δ} material both as cathode and anode for intermediate-temperature symmetrical solid oxide fuel cell. Journal of Power Sources, 2020, 472, 228498.	4.0	54
62	Numerical analysis of the plasma-induced self-shadowing effect of impinging particles and phase transformation in a novel long laminar plasma jet. Journal Physics D: Applied Physics, 2020, 53, 375202.	1.3	11
63	Plasma spray-physical vapor deposition toward advanced thermal barrier coatings: a review. Rare Metals, 2020, 39, 479-497.	3.6	33
64	Microstructures of aluminum surfaces reinforced with 316L stainless steel particles via high-speed particle injection and the resulting double-strengthening mechanism. Surface and Coatings Technology, 2020, 385, 125380.	2.2	6
65	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
66	Structured La _{0.6} Sr _{0.4} Co _{0.2} Fe _{0.8} O _{3-δ} cathode with large-scale vertical cracks by atmospheric laminar plasma spraying for IT-SOFCs. Journal of Alloys and Compounds, 2020, 825, 153865.	2.8	18
67	Superior oxidation resistant MCrAlY bond coats prepared by controlled atmosphere heat treatment. Corrosion Science, 2020, 170, 108653.	3.0	39
68	Bioinspired Mechanically Robust Metal-Based Water Repellent Surface Enabled by Scalable Construction of a Flexible Coral-Reef-Like Architecture. Small, 2019, 15, e1901919.	5.2	30
69	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
70	High stability SrTi _{1-x} Fe _x O _{3-δ} electrodes for oxygen reduction and oxygen evolution reactions. Journal of Materials Chemistry A, 2019, 7, 21447-21458.	5.2	32
71	The Characteristics of Cermet-Supported Tubular Solid Oxide Fuel Cells Manufactured by Thermal Spraying. ECS Transactions, 2019, 91, 285-289.	0.3	2
72	Characterization of Self-Sealed Metal Supported SOFCs with the Very Low Pressure Plasma Sprayed ScSZ Electrolyte. ECS Transactions, 2019, 91, 901-908.	0.3	2

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73	Transport and deposition behaviors of vapor coating materials in plasma spray-physical vapor deposition. <i>Applied Surface Science</i> , 2019, 486, 80-92.	3.1	60
74	Numerical simulation of the flow characteristics inside a novel plasma spray torch. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 335203.	1.3	27
75	Electrochemical performance and stability of SrTi _{0.3} Fe _{0.6} Co _{0.1} O _{3-δ} infiltrated La _{0.8} Sr _{0.2} MnO ₃ Zr _{0.92} Y _{0.16} O _{2-δ} oxygen electrodes for intermediate-temperature solid oxide electrochemical cells. <i>Journal of Power Sources</i> , 2019, 426, 233-241.	4.0	27
76	Highly oxidation resistant MCrAlY bond coats prepared by heat treatment under low oxygen content. <i>Surface and Coatings Technology</i> , 2019, 368, 192-201.	2.2	66
77	Effect of substrate temperature on the microstructure and interface bonding formation of plasma sprayed Ni ₂₀ Cr splat. <i>Surface and Coatings Technology</i> , 2019, 371, 36-46.	2.2	14
78	Microstructural evolution of alumina coatings by a novel long laminar plasma spraying method. <i>Surface and Coatings Technology</i> , 2019, 363, 210-220.	2.2	12
79	Combined effect of internal and external factors on sintering kinetics of plasma-sprayed thermal barrier coatings. <i>Journal of the European Ceramic Society</i> , 2019, 39, 1860-1868.	2.8	37
80	Thermodynamic conditions for cluster formation in supersaturated boundary layer during plasma spray-physical vapor deposition. <i>Applied Surface Science</i> , 2019, 471, 950-959.	3.1	49
81	Plasma Spraying of Dense Ceramic Coating with Fully Bonded Lamellae Through Materials Design Based on the Critical Bonding Temperature Concept. <i>Journal of Thermal Spray Technology</i> , 2019, 28, 53-62.	1.6	15
82	Highly stable carbon-based perovskite solar cell with a record efficiency of over 18% via hole transport engineering. <i>Journal of Materials Science and Technology</i> , 2019, 35, 987-993.	5.6	123
83	Generation of Long Laminar Plasma Jets: Experimental and Numerical Analyses. <i>Plasma Chemistry and Plasma Processing</i> , 2019, 39, 377-394.	1.1	20
84	Visible light enhanced black NiO sensors for ppb-level NO ₂ detection at room temperature. <i>Ceramics International</i> , 2019, 45, 4253-4261.	2.3	63
85	Molecular dynamics simulation and experimental verification for bonding formation of solid-state TiO ₂ nano-particles induced by high velocity collision. <i>Ceramics International</i> , 2019, 45, 4700-4706.	2.3	7
86	Cracking induced tribological behavior changes for the HVOF WC-12Co cermet coatings. <i>Ceramics International</i> , 2019, 45, 4718-4728.	2.3	19
87	Corrosion resistant nickel coating with strong adhesion on AZ31B magnesium alloy prepared by an in-situ shot-peening-assisted cold spray. <i>Corrosion Science</i> , 2018, 138, 105-115.	3.0	123
88	Vacuum heat treatment mechanisms promoting the adhesion strength of thermally sprayed metallic coatings. <i>Surface and Coatings Technology</i> , 2018, 344, 102-110.	2.2	52
89	Cost effective perovskite solar cells with a high efficiency and open-circuit voltage based on a perovskite-friendly carbon electrode. <i>Journal of Materials Chemistry A</i> , 2018, 6, 8271-8279.	5.2	57
90	Substrate-constrained effect on the stiffening behavior of lamellar thermal barrier coatings. <i>Journal of the European Ceramic Society</i> , 2018, 38, 2579-2587.	2.8	14

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91	Sodium ionic conductivity and stability of amorphous Na ₂ O·2SiO ₂ added with M _x O _y (M = Zr, Y, and) Tj ETQq _{1,1} 0.784314 rgBT ₁ 3.3	1.1	14
92	Microstructure and Transparent Super-Hydrophobic Performance of Vacuum Cold-Sprayed Al ₂ O ₃ and SiO ₂ Aerogel Composite Coating. Journal of Thermal Spray Technology, 2018, 27, 471-482.	1.6	15
93	Achieving the high phase purity of CH ₃ NH ₃ PbI ₃ film by two-step solution processable crystal engineering. Journal of Materials Science and Technology, 2018, 34, 1405-1411.	5.6	12
94	The Effect of Molybdenum Substrate Oxidation on Molybdenum Splat Formation. Journal of Thermal Spray Technology, 2018, 27, 14-24.	1.6	9
95	Development of long laminar plasma jet on thermal spraying process: Microstructures of zirconia coatings. Surface and Coatings Technology, 2018, 337, 241-249.	2.2	22
96	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
97	Novel Method of Aluminum to Copper Bonding by Cold Spray. Journal of Thermal Spray Technology, 2018, 27, 624-640.	1.6	23
98	Stage-sensitive microstructural evolution of nanostructured TBCs during thermal exposure. Journal of the European Ceramic Society, 2018, 38, 3325-3332.	2.8	32
99	Low-temperature SnO ₂ -modified TiO ₂ yields record efficiency for normal planar perovskite solar modules. Journal of Materials Chemistry A, 2018, 6, 10233-10242.	5.2	75
100	Gaseous material capacity of open plasma jet in plasma spray-physical vapor deposition process. Applied Surface Science, 2018, 428, 877-884.	3.1	49
101	Improving Erosion Resistance of Plasma-Sprayed Ceramic Coatings by Elevating the Deposition Temperature Based on the Critical Bonding Temperature. Journal of Thermal Spray Technology, 2018, 27, 25-34.	1.6	5
102	Effect of the shell-core-structured particle design on the heating characteristic of nickel-based alloy particle during plasma spraying. Surface and Coatings Technology, 2018, 335, 52-61.	2.2	13
103	Tailoring the composite interface at lower temperature by the nanoscale interfacial active layer formed in cold sprayed cBN/NiCrAl nanocomposite. Materials and Design, 2018, 140, 387-399.	3.3	14
104	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
105	Sintering characteristics of plasma-sprayed TBCs: Experimental analysis and an overall modelling. Ceramics International, 2018, 44, 2982-2990.	2.3	44
106	Effect of Post-spray Shot Peening Treatment on the Corrosion Behavior of NiCr-Mo Coating by Plasma Spraying of the Shell-“Core” Structured Powders. Journal of Thermal Spray Technology, 2018, 27, 232-242.	1.6	17
107	Gradient thermal cyclic behaviour of La ₂ Zr ₂ O ₇ /YSZ DCL-TBCs with equivalent thermal insulation performance. Journal of the European Ceramic Society, 2018, 38, 1888-1896.	2.8	57
108	Effect of vapor deposition in shrouded plasma spraying on morphology and wettability of the metallic Ni ₂₀ Cr coating surface. Journal of Alloys and Compounds, 2018, 735, 430-440.	2.8	19

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109	Mechanical performance of plasma-sprayed bulk-like NiCrMo coating with a novel shell-core-structured NiCr-Mo particle. <i>Surface and Coatings Technology</i> , 2018, 353, 179-189.	2.2	14
110	Comprehensive dynamic failure mechanism of thermal barrier coatings based on a novel crack propagation and TGO growth coupling model. <i>Ceramics International</i> , 2018, 44, 22556-22566.	2.3	56
111	Performance of La _{0.8} Sr _{0.2} Ga _{0.8} Mg _{0.2} O ₃ -based SOFCs with atmospheric plasma sprayed La-doped CeO ₂ buffer layer. <i>Electrochimica Acta</i> , 2018, 275, 208-217.	2.6	15
112	A novel structure of YSZ coatings by atmospheric laminar plasma spraying technology. <i>Scripta Materialia</i> , 2018, 153, 73-76.	2.6	41
113	La _{0.8} Sr _{0.2} Ga _{0.8} Mg _{0.2} O ₃ electrolytes prepared by vacuum cold spray under heated gas for improved performance of SOFCs. <i>Ceramics International</i> , 2018, 44, 13773-13781.	2.3	9
114	Strain/sintering co-induced multiscale structural changes in plasma-sprayed thermal barrier coatings. <i>Ceramics International</i> , 2018, 44, 14408-14416.	2.3	23
115	Cobalt-substituted SrTi _{0.3} Fe _{0.7} O _{3-δ} : a stable high-performance oxygen electrode material for intermediate-temperature solid oxide electrochemical cells. <i>Energy and Environmental Science</i> , 2018, 11, 1870-1879.	15.6	93
116	Prolong the durability of La ₂ Zr ₂ O ₇ /YSZ TBCs by decreasing the cracking driving force in ceramic coatings. <i>Journal of the European Ceramic Society</i> , 2018, 38, 5482-5488.	2.8	51
117	MD Simulation on Collision Behavior Between Nano-Scale TiO ₂ Particles During Vacuum Cold Spraying. <i>Journal of Nanoscience and Nanotechnology</i> , 2018, 18, 2657-2664.	0.9	5
118	Deposition behavior, microstructure and mechanical properties of an in-situ micro-forging assisted cold spray enabled additively manufactured Inconel 718 alloy. <i>Materials and Design</i> , 2018, 155, 384-395.	3.3	64
119	Effect of the powder particle structure and substrate hardness during vacuum cold spraying of Al ₂ O ₃ . <i>Ceramics International</i> , 2017, 43, 4390-4398.	2.3	34
120	Strain-induced multiscale structural changes in lamellar thermal barrier coatings. <i>Ceramics International</i> , 2017, 43, 2252-2266.	2.3	35
121	Sintering-induced delamination of thermal barrier coatings by gradient thermal cyclic test. <i>Journal of the American Ceramic Society</i> , 2017, 100, 1820-1830.	1.9	74
122	Material nucleation/growth competition tuning towards highly reproducible planar perovskite solar cells with efficiency exceeding 20%. <i>Journal of Materials Chemistry A</i> , 2017, 5, 6840-6848.	5.2	149
123	Ultra-high open-circuit voltage of perovskite solar cells induced by nucleation thermodynamics on rough substrates. <i>Scientific Reports</i> , 2017, 7, 46141.	1.6	71
124	A comprehensive mechanism for the sintering of plasma-sprayed nanostructured thermal barrier coatings. <i>Ceramics International</i> , 2017, 43, 9600-9615.	2.3	60
125	Thermally Sprayed Large Tubular Solid Oxide Fuel Cells and Its Stack: Geometry Optimization, Preparation, and Performance. <i>Journal of Thermal Spray Technology</i> , 2017, 26, 441-455.	1.6	16
126	Influence of microstructure on the mechanical integrity of plasma-sprayed TiO ₂ splat. <i>Journal of the European Ceramic Society</i> , 2017, 37, 4979-4989.	2.8	5

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127	Edge Effect on Crack Patterns in Thermally Sprayed Ceramic Splats. <i>Journal of Thermal Spray Technology</i> , 2017, 26, 302-314.	1.6	34
128	Effect of Fe doping on the performance of suspension plasma-sprayed $\text{PrBa}_{0.5}\text{Sr}_{0.5}\text{Co}_{2-x}\text{Fe}_x\text{O}_{5+\delta}$ cathodes for intermediate-temperature solid oxide fuel cells. <i>Ceramics International</i> , 2017, 43, 11648-11655.	2.3	26
129	Super-Hydrophobic Surface Prepared by Lanthanide Oxide Ceramic Deposition Through PS-PVD Process. <i>Journal of Thermal Spray Technology</i> , 2017, 26, 398-408.	1.6	11
130	Epitaxial growth during the rapid solidification of plasma-sprayed molten TiO_2 splat. <i>Acta Materialia</i> , 2017, 134, 66-80.	3.8	33
131	Force transmission and its effect on structural changes in plasma-sprayed lamellar ceramic coatings. <i>Journal of the European Ceramic Society</i> , 2017, 37, 2877-2888.	2.8	30
132	Non-parabolic isothermal oxidation kinetics of low pressure plasma sprayed MCrAlY bond coat. <i>Applied Surface Science</i> , 2017, 406, 99-109.	3.1	69
133	Large-area high-efficiency perovskite solar cells based on perovskite films dried by the multi-flow air knife method in air. <i>Journal of Materials Chemistry A</i> , 2017, 5, 1548-1557.	5.2	115
134	Effect of Oxidation on the Bonding Formation of Plasma-Sprayed Stainless Steel Splats onto Stainless Steel Substrate. <i>Journal of Thermal Spray Technology</i> , 2017, 26, 47-59.	1.6	14
135	Optimization of In-Situ Shot-Peening-Assisted Cold Spraying Parameters for Full Corrosion Protection of Mg Alloy by Fully Dense Al-Based Alloy Coating. <i>Journal of Thermal Spray Technology</i> , 2017, 26, 173-183.	1.6	65
136	Influence of pre-reduction on microstructure homogeneity and electrical properties of APS $\text{Mn}_{1.5}\text{Co}_{1.5}\text{O}_4$ coatings for SOFC interconnects. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 27241-27253.	3.8	28
137	Sintering induced the failure behavior of dense vertically crack and lamellar structured TBCs with equivalent thermal insulation performance. <i>Ceramics International</i> , 2017, 43, 15459-15465.	2.3	62
138	Fast Drying Boosted Performance Improvement of Low-Temperature Paintable Carbon-Based Perovskite Solar Cell. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 9758-9765.	3.2	35
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