Chang-Jiu Li

List of Publications by Year in Descending Order

364 papers	10,441 citations	53 h-index	78 g-index
388 ext. papers	11,996 ext. citations	4.6 avg, IF	6.66 L-index

#	Paper	IF	Citations
364	Recent Research Advances in Plasma Spraying of Bulk-Like Dense Metal Coatings with Metallurgically Bonded Lamellae. *Journal of Thermal Spray Technology*, **2022**, 31, 5	2.5	1
363	Sintering behavior of BaCe0.7Zr0.1Y0.2O3-δ electrolyte at 1150 °C with the utilization of CuO and Bi2O3 as sintering aids and its electrical performance. *International Journal of Hydrogen Energy*, **2022**, 47, 7403-7414	6.7	6
362	Critical scale grain size for optimal lifetime of TBCs. *Journal of Materials Science and Technology*, **2022**, 115, 241-250	9.1	0
361	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	2.5	
360	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	5.1	10
359	Recent advancements, doping strategies and the future perspective of perovskite-based solid oxide fuel cells for energy conversion. *Chemical Engineering Journal*, **2022**, 428, 132603	14.7	15
358	Achieving high anti-sintering performance of plasma-sprayed YSZ thermal barrier coatings through pore structure design. *Surface and Coatings Technology*, **2022**, 435, 128259	4.4	0
357	Thermally sprayed MCO/FeCr24 interconnector with improved stability for tubular segmented-in-series SOFCs. *Applied Surface Science*, **2022**, 587, 152861	6.7	0
356	Towards better understanding supersonic impact-bonding behavior of cold sprayed 6061-T6 aluminum alloy based on a high-accuracy material model. *Additive Manufacturing*, **2021**, 102469	6.1	
355	Enhancing the hot-corrosion resistance of atmospheric plasma sprayed Ni-based coatings by adding a deoxidizer. *Materials and Design*, **2021**, 211, 110154	8.1	2
354	Performance and Stability of Plasma-Sprayed 10 × 10 cm2 Self-sealing Metal-Supported Solid Oxide Fuel Cells. *Journal of Thermal Spray Technology*, **2021**, 30, 1059-1068	2.5	1
353	Cold spray (CS) deposition of a durable silver coating with high infrared reflectivity for radiation energy saving in the polysilicon CVD reactor. *Surface and Coatings Technology*, **2021**, 409, 126841	4.4	3
352	Effect of coating composition on the micro-galvanic dissolution behavior and antifouling performance of plasma-sprayed laminated-structured Cu Ti composite coating. *Surface and Coatings Technology*, **2021**, 410, 126963	4.4	2
351	Microstructural analysis of highly active cathode material La0.7Sr0.3Ti0.15Fe0.65Ni0.2O3-δ (LSTFN) by optimizing different processing parameters. *Ceramics International*, **2021**, 47, 10893-10904	5.1	5
350	Fabrication of Nanostructured Cadmium Selenide Thin Films for Optoelectronics Applications. *Frontiers in Chemistry*, **2021**, 9, 661723	5	3
349	Ni coatings for corrosion protection of Mg alloys prepared by an in-situ micro-forging assisted cold spray: Effect of powder feedstock characteristics. *Corrosion Science*, **2021**, 184, 109397	6.8	7
348	Capturing cold-spray bonding features of pure Cu from in situ deformation behavior using a high-accuracy material model. *Surface and Coatings Technology*, **2021**, 413, 127087	4.4	1

347	Sintering behavior and electrochemical performance of A-site deficient SrxTi0.3Fe0.7O3-δ oxygen electrodes for solid oxide electrochemical cells. *Ceramics International*, **2021**,	5.1	3
346	Numerical Simulation of Plasma Jet Characteristics under Very Low-Pressure Plasma Spray Conditions. *Coatings*, **2021**, 11, 726	2.9	3
345	Narrow and Thin Copper Linear Pattern Deposited by Vacuum Cold Spraying and Deposition Behavior Simulation. *Journal of Thermal Spray Technology*, **2021**, 30, 571-583	2.5	5
344	Lightweight epoxy-based abradable seal coating with high bonding strength. *Journal of Materials Science and Technology*, **2021**, 69, 129-137	9.1	4
343	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	9.1	10
342	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	4.4	3
341	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	2.5	0
340	Plasma-Sprayed High-Performance (Bi2O3)0.75(Y2O3)0.25 Electrolyte for Intermediate-Temperature Solid Oxide Fuel Cells (IT-SOFCs). *Journal of Thermal Spray Technology*, **2021**, 30, 196-204	2.5	4
339	Effect of Powder Particle Size and Spray Parameters on the Ni/Al Reaction During Plasma Spraying of Ni-Al Composite Powders. *Journal of Thermal Spray Technology*, **2021**, 30, 181-195	2.5	4
338	Highly active and novel A-site deficient symmetric electrode material (Sr0.3La0.7)1−x (Fe0.7Ti0.3)0.9Ni0.1O3−δ and its effect on electrochemical performance of SOFCs. *International Journal of Hydrogen Energy*, **2021**, 46, 8778-8791	6.7	10
337	Novel long laminar plasma sprayed hybrid structure thermal barrier coatings for high-temperature anti-sintering and volcanic ash corrosion resistance. *Journal of Materials Science and Technology*, **2021**, 79, 141-146	9.1	3
336	Plasma-sprayed lanthanum-doped strontium titanate as an interconnect for solid oxide fuel cells: Effects of powder size and process conditions. *Journal of Alloys and Compounds*, **2021**, 876, 160212	5.7	2
335	Numerical Analysis of the Interactions between Plasma Jet and Powder Particles in PS-PVD Conditions. *Coatings*, **2021**, 11, 1154	2.9	
334	Preparation of bulk-like La0.8Sr0.2Ga0.8Mg0.2O3-δ coatings for porous metal-supported solid oxide fuel cells via plasma spraying at increased particle temperatures. *International Journal of Hydrogen Energy*, **2021**, 46, 32655-32664	6.7	1
333	TGO and Al diffusion behavior of CuAlxNiCrFe high-entropy alloys fabricated by high-speed laser cladding for TBC bond coats. *Corrosion Science*, **2021**, 192, 109781	6.8	2
332	In-situ heating effect of laminar plasma jet during Mo coatings deposition. *Materials Letters*, **2021**, 305, 130743	3.3	0
331	Enhancement of Corrosion Resistance and Tribological Properties of LA43M Mg Alloy by Cold-Sprayed Aluminum Coatings Reinforced with Alumina and Carbon Nanotubes. *Journal of Thermal Spray Technology*, **2021**, 30, 668-679	2.5	3
330	Fabrication of Metal Matrix Composites via High-Speed Particle Implantation. *Journal of Thermal Spray Technology*, **2020**, 29, 1910-1925	2.5	

329	Self-Bonding Effect Development for Plasma Spraying of Stainless Steel Coating Through Using Mo-Clad Stainless Steel Powders. *Jom*, **2020**, 72, 4613-4623	2.1	1
328	Splash involved deposition behavior and erosion mechanism of long laminar plasma sprayed NiCrBSi coatings. *Surface and Coatings Technology*, **2020**, 395, 125939	4.4	4
327	Enhanced corrosion resistance of cold-sprayed and shot-peened aluminum coatings on LA43M magnesium alloy. *Surface and Coatings Technology*, **2020**, 394, 125865	4.4	18
326	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	4.4	33
325	Performance evaluation of highly active and novel La0.7Sr0.3Ti0.1Fe0.6Ni0.3O3-δ material both as cathode and anode for intermediate-temperature symmetrical solid oxide fuel cell. *Journal of Power Sources*, **2020**, 472, 228498	8.9	23
324	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	3	4
323	Plasma spray□physical vapor deposition toward advanced thermal barrier coatings: a review. *Rare Metals*, **2020**, 39, 479-497	5.5	15
322	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	4.4	2
321	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	5.3	22
320	Structured La0.6Sr0.4Co0.2Fe0.8O3-□cathode with large-scale vertical cracks by atmospheric laminar plasma spraying for IT-SOFCs. *Journal of Alloys and Compounds*, **2020**, 825, 153865	5.7	7
319	A Novel Strategy for Depositing Dense Self-fluxing Alloy Coatings with Sufficiently Bonded Splats by One-Step Atmospheric Plasma Spraying. *Journal of Thermal Spray Technology*, **2020**, 29, 173-184	2.5	9
318	Effects of Powder Structure and Size on Gd2O3 Preferential Vaporization During Plasma Spraying of Gd2Zr2O7. *Journal of Thermal Spray Technology*, **2020**, 29, 105-114	2.5	1
317	Improving adhesive strength of WC-CoCr coating with novel bimodal roughening substrate: Finite element modeling. *Ceramics International*, **2020**, 46, 10481-10489	5.1	
316	Morphology of composite coatings formed on Mo1 substrate using hot-dip aluminising and micro-arc oxidation techniques. *Applied Surface Science*, **2020**, 508, 144761	6.7	5
315	Effect of water environment on particle deposition of underwater cold spray. *Applied Surface Science*, **2020**, 506, 144542	6.7	9
314	Optimization of Plasma-Sprayed Lanthanum Chromite Interconnector Through Powder Design and Critical Process Parameters Control. *Journal of Thermal Spray Technology*, **2020**, 29, 212-222	2.5	6
313	Development of ScSZ Electrolyte by Very Low Pressure Plasma Spraying for High-Performance Metal-Supported SOFCs. *Journal of Thermal Spray Technology*, **2020**, 29, 223-231	2.5	8
312	Plasma-Sprayed Al Alloy Coating with Enhanced Lamellar Bonding Through Novel Self-Bonding Strategy. *Jom*, **2020**, 72, 4604-4612	2.1	1

311	Self-Sealing Metal-Supported SOFC Fabricated by Plasma Spraying and Its Performance under Unbalanced Gas Pressure. *Journal of Thermal Spray Technology*, **2020**, 29, 2001-2011	2.5	4
310	High performance of ceramic current collector fabricated at 550□C through in-situ joining of reduced Mn1.5Co1.5O4 for metal-supported solid oxide fuel cells. *International Journal of Hydrogen Energy*, **2020**, 45, 29123-29130	6.7	5
309	Deposition and oxidation behavior of atmospheric laminar plasma sprayed Mo coatings from 200 mm to 400 mm under 20 kW: Numerical and experimental analyses. *Surface and Coatings Technology*, **2020**, 400, 126245	4.4	1
308	Study on Deposition Behavior of Less Than 5 □m YSZ Particles in VLPPS. *Journal of Thermal Spray Technology*, **2020**, 29, 1708-1717	2.5	
307	Advanced oxygen-electrode-supported solid oxide electrochemical cells with Sr(Ti,Fe)O3□based fuel electrodes for electricity generation and hydrogen production. *Journal of Materials Chemistry A* , **2020**, 8, 25867-25879	13	8
306	Large-grain □Al2O3 enabling ultra-high oxidation-resistant MCrAlY bond coats by surface pre-agglomeration treatment. *Corrosion Science*, **2020**, 163, 108275	6.8	14
305	Dense Mn1.5Co1.5O4 coatings with excellent long-term stability and electrical performance under the SOFC cathode environment. *Applied Surface Science*, **2020**, 499, 143726	6.7	17
304	Improving WC-Co coating adhesive strength on rough substrate: Finite element modeling and experiment. *Journal of Materials Science and Technology*, **2020**, 37, 1-8	9.1	9
303	Superior oxidation resistant MCrAlY bond coats prepared by controlled atmosphere heat treatment. *Corrosion Science*, **2020**, 170, 108653	6.8	14
302	High stability SrTi1□FexO3□electrodes for oxygen reduction and oxygen evolution reactions. *Journal of Materials Chemistry A*, **2019**, 7, 21447-21458	13	18
301	Characterization of Self-Sealed Metal Supported SOFCs with the Very Low Pressure Plasma Sprayed ScSZ Electrolyte. *ECS Transactions*, **2019**, 91, 901-908	1	
300	Transport and deposition behaviors of vapor coating materials in plasma spray-physical vapor deposition. *Applied Surface Science*, **2019**, 486, 80-92	6.7	35
299	Numerical simulation of the flow characteristics inside a novel plasma spray torch. *Journal Physics D: Applied Physics*, **2019**, 52, 335203	3	17
298	Electrochemical performance and stability of SrTi0.3Fe0.6Co0.1O3-□nfiltrated La0.8Sr0.2MnO3Zr0.92Y0.16O2-□oxygen electrodes for intermediate-temperature solid oxide electrochemical cells. *Journal of Power Sources*, **2019**, 426, 233-241	8.9	15
297	Highly oxidation resistant MCrAlY bond coats prepared by heat treatment under low oxygen content. *Surface and Coatings Technology*, **2019**, 368, 192-201	4.4	33
296	Effect of substrate temperature on the microstructure and interface bonding formation of plasma sprayed Ni20Cr splat. *Surface and Coatings Technology*, **2019**, 371, 36-46	4.4	8
295	Microstructural evolution of alumina coatings by a novel long laminar plasma spraying method. *Surface and Coatings Technology*, **2019**, 363, 210-220	4.4	8
294	Bioinspired Mechanically Robust Metal-Based Water Repellent Surface Enabled by Scalable Construction of a Flexible Coral-Reef-Like Architecture. *Small*, **2019**, 15, e1901919	11	19

293	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	5.7	34
292	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	6	22
291	Thermodynamic conditions for cluster formation in supersaturated boundary layer during plasma spray-physical vapor deposition. *Applied Surface Science*, **2019**, 471, 950-959	6.7	42
290	Plasma Spraying of Dense Ceramic Coating with Fully Bonded Lamellae Through Materials Design Based on the Critical Bonding Temperature Concept. *Journal of Thermal Spray Technology*, **2019**, 28, 53-62	2.5	11
289	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	9.1	83
288	Generation of Long Laminar Plasma Jets: Experimental and Numerical Analyses. *Plasma Chemistry and Plasma Processing*, **2019**, 39, 377-394	3.6	11
287	Visible light enhanced black NiO sensors for ppb-level NO2 detection at room temperature. *Ceramics International*, **2019**, 45, 4253-4261	5.1	42
286	Molecular dynamics simulation and experimental verification for bonding formation of solid-state TiO2 nano-particles induced by high velocity collision. *Ceramics International*, **2019**, 45, 4700-4706	5.1	4
285	Cracking induced tribological behavior changes for the HVOF WC-12Co cermet coatings. *Ceramics International*, **2019**, 45, 4718-4728	5.1	13
284	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	6.8	78
283	Vacuum heat treatment mechanisms promoting the adhesion strength of thermally sprayed metallic coatings. *Surface and Coatings Technology*, **2018**, 344, 102-110	4.4	36
282	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	13	31
281	Substrate-constrained effect on the stiffening behavior of lamellar thermal barrier coatings. *Journal of the European Ceramic Society*, **2018**, 38, 2579-2587	6	13
280	Sodium ionic conductivity and stability of amorphous Na 2 O□2SiO 2 added with M x O y (M = Zr, Y, and Sm). *Materials and Design*, **2018**, 143, 104-111	8.1	1
279	Microstructure and Transparent Super-Hydrophobic Performance of Vacuum Cold-Sprayed Al2O3 and SiO2 Aerogel Composite Coating. *Journal of Thermal Spray Technology*, **2018**, 27, 471-482	2.5	11
278	Achieving the high phase purity of CH3NH3PbI3 film by two-step solution processable crystal engineering. *Journal of Materials Science and Technology*, **2018**, 34, 1405-1411	9.1	10
277	The Effect of Molybdenum Substrate Oxidation on Molybdenum Splat Formation. *Journal of Thermal Spray Technology*, **2018**, 27, 14-24	2.5	4
276	Development of long laminar plasma jet on thermal spraying process: Microstructures of zirconia coatings. *Surface and Coatings Technology*, **2018**, 337, 241-249	4.4	16

275	Highly oxidation resistant and cost effective MCrAlY bond coats prepared by controlled atmosphere heat treatment. *Surface and Coatings Technology*, **2018**, 347, 54-65	4.4	47
274	Novel Method of Aluminum to Copper Bonding by Cold Spray. *Journal of Thermal Spray Technology*, **2018**, 27, 624-640	2.5	15
273	Stage-sensitive microstructural evolution of nanostructured TBCs during thermal exposure. *Journal of the European Ceramic Society*, **2018**, 38, 3325-3332	6	19
272	Low-temperature SnO2-modified TiO2 yields record efficiency for normal planar perovskite solar modules. *Journal of Materials Chemistry A*, **2018**, 6, 10233-10242	13	60
271	Gaseous material capacity of open plasma jet in plasma spray-physical vapor deposition process. *Applied Surface Science*, **2018**, 428, 877-884	6.7	42
270	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	2.5	4
269	Strain/sintering co-induced multiscale structural changes in plasma-sprayed thermal barrier coatings. *Ceramics International*, **2018**, 44, 14408-14416	5.1	20
268	Cobalt-substituted SrTi0.3Fe0.7O3−δ a stable high-performance oxygen electrode material for intermediate-temperature solid oxide electrochemical cells. *Energy and Environmental Science*, **2018**, 11, 1870-1879	35.4	65
267	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	6	35
266	MD Simulation on Collision Behavior Between Nano-Scale TiO2 Particles During Vacuum Cold Spraying. *Journal of Nanoscience and Nanotechnology*, **2018**, 18, 2657-2664	1.3	4
265	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	8.1	47
264	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	4.4	9
263	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	8.1	11
262	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	5.7	25
261	Sintering characteristics of plasma-sprayed TBCs: Experimental analysis and an overall modelling. *Ceramics International*, **2018**, 44, 2982-2990	5.1	31
260	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	2.5	13
259	Gradient thermal cyclic behaviour of La2Zr2O7/YSZ DCL-TBCs with equivalent thermal insulation performance. *Journal of the European Ceramic Society*, **2018**, 38, 1888-1896	6	40
258	Effect of vapor deposition in shrouded plasma spraying on morphology and wettability of the metallic Ni20Cr coating surface. *Journal of Alloys and Compounds*, **2018**, 735, 430-440	5.7	16

257	Mechanical performance of plasma-sprayed bulk-like NiCrMo coating with a novel shell-core-structured NiCr-Mo particle. *Surface and Coatings Technology*, **2018**, 353, 179-189	4.4	11
256	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	5.1	37
255	Performance of La0.8Sr0.2Ga0.8Mg0.2O3-based SOFCs with atmospheric plasma sprayed La-doped CeO2 buffer layer. *Electrochimica Acta*, **2018**, 275, 208-217	6.7	12
254	A novel structure of YSZ coatings by atmospheric laminar plasma spraying technology. *Scripta Materialia*, **2018**, 153, 73-76	5.6	25
253	La0.8Sr0.2Ga0.8Mg0.2O3 electrolytes prepared by vacuum cold spray under heated gas for improved performance of SOFCs. *Ceramics International*, **2018**, 44, 13773-13781	5.1	7
252	Effect of the powder particle structure and substrate hardness during vacuum cold spraying of Al2O3. *Ceramics International*, **2017**, 43, 4390-4398	5.1	25
251	Strain-induced multiscale structural changes in lamellar thermal barrier coatings. *Ceramics International*, **2017**, 43, 2252-2266	5.1	29
250	Sintering-induced delamination of thermal barrier coatings by gradient thermal cyclic test. *Journal of the American Ceramic Society*, **2017**, 100, 1820-1830	3.8	52
249	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	13	110
248	Ultra-high open-circuit voltage of perovskite solar cells induced by nucleation thermodynamics on rough substrates. *Scientific Reports*, **2017**, 7, 46141	4.9	58
247	A comprehensive mechanism for the sintering of plasma-sprayed nanostructured thermal barrier coatings. *Ceramics International*, **2017**, 43, 9600-9615	5.1	38
246	Thermally Sprayed Large Tubular Solid Oxide Fuel Cells and Its Stack: Geometry Optimization, Preparation, and Performance. *Journal of Thermal Spray Technology*, **2017**, 26, 441-455	2.5	12
245	Influence of microstructure on the mechanical integrity of plasma-sprayed TiO2 splat. *Journal of the European Ceramic Society*, **2017**, 37, 4979-4989	6	3
244	Edge Effect on Crack Patterns in Thermally Sprayed Ceramic Splats. *Journal of Thermal Spray Technology*, **2017**, 26, 302-314	2.5	25
243	Effect of Fe doping on the performance of suspension plasma-sprayed PrBa0.5Sr0.5Co2−xFexO5+δ cathodes for intermediate-temperature solid oxide fuel cells. *Ceramics International*, **2017**, 43, 11648-11655	5.1	15
242	Super-Hydrophobic Surface Prepared by Lanthanide Oxide Ceramic Deposition Through PS-PVD Process. *Journal of Thermal Spray Technology*, **2017**, 26, 398-408	2.5	8
241	Epitaxial growth during the rapid solidification of plasma-sprayed molten TiO 2 splat. *Acta Materialia*, **2017**, 134, 66-80	8.4	27
240	Force transmission and its effect on structural changes in plasma-sprayed lamellar ceramic coatings. *Journal of the European Ceramic Society*, **2017**, 37, 2877-2888	6	27

239	Non-parabolic isothermal oxidation kinetics of low pressure plasma sprayed MCrAlY bond coat. *Applied Surface Science*, **2017**, 406, 99-109	6.7	49
238	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	13	92
237	Effect of Oxidation on the Bonding Formation of Plasma-Sprayed Stainless Steel Splats onto Stainless Steel Substrate. *Journal of Thermal Spray Technology*, **2017**, 26, 47-59	2.5	11
236	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	2.5	43
235	Influence of pre-reduction on microstructure homogeneity and electrical properties of APS Mn1.5Co1.5O4 coatings for SOFC interconnects. *International Journal of Hydrogen Energy*, **2017**, 42, 27241-27253	6.7	16
234	Sintering induced the failure behavior of dense vertically crack and lamellar structured TBCs with equivalent thermal insulation performance. *Ceramics International*, **2017**, 43, 15459-15465	5.1	46
233	Fast Drying Boosted Performance Improvement of Low-Temperature Paintable Carbon-Based Perovskite Solar Cell. *ACS Sustainable Chemistry and Engineering*, **2017**, 5, 9758-9765	8.3	28
232	Microstructure and Electrochemical Properties of La0.8Sr0.2Ga0.8Mg0.2O3Thin Film Deposited by Vacuum Cold Spray for Solid Oxide Fuel Cells. *ECS Transactions*, **2017**, 78, 405-412	1	2
231	Small molecule-driven directional movement enabling pin-hole free perovskite film via fast solution engineering. *Nanoscale*, **2017**, 9, 15778-15785	7.7	2
230	Evaporation of Droplets in Plasma Spray□Physical Vapor Deposition Based on Energy Compensation Between Self-Cooling and Plasma Heat Transfer. *Journal of Thermal Spray Technology*, **2017**, 26, 1641-1650	2.5	21
229	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	2.5	31
228	Enhanced sintering behavior of LSGM electrolyte and its performance for solid oxide fuel cells deposited by vacuum cold spray. *Journal of the European Ceramic Society*, **2017**, 37, 4751-4761	6	12
227	Suspension Plasma Sprayed Sr2Fe1.4Mo0.6O6□Electrodes for Solid Oxide Fuel Cells. *Journal of Thermal Spray Technology*, **2017**, 26, 432-440	2.5	1
226	Room-temperature nitrogen-dioxide sensors based on ZnO1□ coatings deposited by solution precursor plasma spray. *Sensors and Actuators B: Chemical*, **2017**, 242, 102-111	8.5	52
225	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	6.7	27
224	Dominant effect of particle size on the CeO2 preferential evaporation during plasma spraying of La2Ce2O7. *Journal of the European Ceramic Society*, **2017**, 37, 1577-1585	6	19
223	Dependency of deposition behavior, microstructure and properties of cold sprayed Cu on morphology and porosity of the powder. *Surface and Coatings Technology*, **2017**, 328, 304-312	4.4	15
222	Non-destructive production of natural environment-adaptive super-hydrophobic hierarchical ceramic surface on a steel substrate. *Micro and Nano Letters*, **2016**, 11, 680-683	0.9	2

221	Conditions and mechanisms for the bonding of a molten ceramic droplet to a substrate after high-speed impact. *Acta Materialia*, **2016**, 119, 9-25	8.4	45
220	Liquid plasma sprayed nano-network La0.4Sr0.6Co0.2Fe0.8O3/Ce0.8Gd0.2O2 composite as a high-performance cathode for intermediate-temperature solid oxide fuel cells. *Journal of Power Sources*, **2016**, 327, 622-628	8.9	7
219	Relationship Between Designed Three-Dimensional YSZ Electrolyte Surface Area and Performance of Solution-Precursor Plasma-Sprayed La0.8Sr0.2MnO3 Cathodes. *Journal of Thermal Spray Technology*, **2016**, 25, 1692-1699	2.5	2
218	Understanding the Formation of Limited Interlamellar Bonding in Plasma Sprayed Ceramic Coatings Based on the Concept of Intrinsic Bonding Temperature. *Journal of Thermal Spray Technology*, **2016**, 25, 1617-1630	2.5	15
217	Preparation of hierarchical porous metallic materials via deposition of microporous particles. *Materials Letters*, **2016**, 176, 237-240	3.3	7
216	Hierarchical Formation of Intrasplat Cracks in Thermal Spray Ceramic Coatings. *Journal of Thermal Spray Technology*, **2016**, 25, 959-970	2.5	26
215	Microstructure of YSZ Coatings Deposited by PS-PVD Using 45 kW Shrouded Plasma Torch. *Materials and Manufacturing Processes*, **2016**, 31, 1183-1191	4.1	16
214	Plasma-Sprayed Thermal Barrier Coatings with Enhanced Splat Bonding for CMAS and Corrosion Protection. *Journal of Thermal Spray Technology*, **2016**, 25, 213-221	2.5	20
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