

Chang-Jiu Li

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364
papers

10,441
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53
h-index

78
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388
ext. papers

11,996
ext. citations

4.6
avg, IF

6.66
L-index

#	Paper	IF	Citations
364	Deposition characteristics of titanium coating in cold spraying. <i>Surface and Coatings Technology</i> , 2003 , 167, 278-283	4.4	272
363	Relationships between the microstructure and properties of thermally sprayed deposits. <i>Journal of Thermal Spray Technology</i> , 2002 , 11, 365-374	2.5	248
362	Examination of the critical velocity for deposition of particles in cold spraying. <i>Journal of Thermal Spray Technology</i> , 2006 , 15, 212-222	2.5	166
361	The 2016 Thermal Spray Roadmap. <i>Journal of Thermal Spray Technology</i> , 2016 , 25, 1376-1440	2.5	165
360	Quantitative characterization of the structure of plasma-sprayed Al ₂ O ₃ coating by using copper electroplating. <i>Thin Solid Films</i> , 1991 , 201, 241-252	2.2	146
359	Improved Efficiency of over 10% in Dye-Sensitized Solar Cells with a Ruthenium Complex and an Organic Dye Heterogeneously Positioning on a Single TiO ₂ Electrode. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 7747-7754	3.8	136
358	On high velocity impact of micro-sized metallic particles in cold spraying. <i>Applied Surface Science</i> , 2006 , 253, 2852-2862	6.7	132
357	High velocity impact induced microstructure evolution during deposition of cold spray coatings: A review. <i>Surface and Coatings Technology</i> , 2014 , 254, 11-20	4.4	125
356	Evaporated-gas-induced splashing model for splat formation during plasma spraying. <i>Surface and Coatings Technology</i> , 2004 , 184, 13-23	4.4	123
355	Microstructure and mechanical property of Ti and Ti6Al4V prepared by an in-situ shot peening assisted cold spraying. <i>Materials and Design</i> , 2015 , 85, 527-533	8.1	113
354	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	13	110
353	Numerical simulation of deformation behavior of Al particles impacting on Al substrate and effect of surface oxide films on interfacial bonding in cold spraying. <i>Applied Surface Science</i> , 2007 , 253, 5084-5091	6.7	106
352	Formation of metastable phases in cold-sprayed soft metallic deposit. <i>Surface and Coatings Technology</i> , 2005 , 198, 469-473	4.4	106
351	Effect of annealing treatment on the microstructure and properties of cold-sprayed Cu coating. <i>Journal of Thermal Spray Technology</i> , 2006 , 15, 206-211	2.5	103
350	Effect of TGO Thickness on Thermal Cyclic Lifetime and Failure Mode of Plasma-Sprayed TBCs. <i>Journal of the American Ceramic Society</i> , 2014 , 97, 1226-1232	3.8	102
349	Relationships between feedstock structure, particle parameter, coating deposition, microstructure and properties for thermally sprayed conventional and nanostructured WC ₁₂ C ₀ . <i>International Journal of Refractory Metals and Hard Materials</i> , 2013 , 39, 2-17	4.1	99
348	Significant influence of particle surface oxidation on deposition efficiency, interface microstructure and adhesive strength of cold-sprayed copper coatings. <i>Applied Surface Science</i> , 2010 , 256, 4953-4958	6.7	96

347	Study of oxidation behavior of nanostructured NiCrAlY bond coatings deposited by cold spraying. <i>Surface and Coatings Technology</i> , 2008 , 202, 3378-3384	4.4	95
346	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	13	92
345	Characterization of Nanostructured WC-Co Deposited by Cold Spraying. <i>Journal of Thermal Spray Technology</i> , 2007 , 16, 1011-1020	2.5	91
344	Ionic conductivity and its temperature dependence of atmospheric plasma-sprayed yttria stabilized zirconia electrolyte. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2007 , 137, 24-30	3.1	89
343	Microstructural characterization and abrasive wear performance of HVOF sprayed Cr ₃ C ₂ NiCr coating. <i>Surface and Coatings Technology</i> , 2006 , 200, 6749-6757	4.4	89
342	Influence of substrate roughness on the bonding mechanisms of high velocity oxy-fuel sprayed coatings. <i>Thin Solid Films</i> , 2005 , 485, 141-147	2.2	89
341	Study on impact fusion at particle interfaces and its effect on coating microstructure in cold spraying. <i>Applied Surface Science</i> , 2007 , 254, 517-526	6.7	86
340	Relationship between particle erosion and lamellar microstructure for plasma-sprayed alumina coatings. <i>Wear</i> , 2006 , 260, 1166-1172	3.5	86
339	Influence of Spray Materials and Their Surface Oxidation on the Critical Velocity in Cold Spraying. <i>Journal of Thermal Spray Technology</i> , 2010 , 19, 95-101	2.5	85
338	Optimal design of a novel cold spray gun nozzle at a limited space. <i>Journal of Thermal Spray Technology</i> , 2005 , 14, 391-396	2.5	84
337	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	9.1	83
336	Influence of TGO Composition on the Thermal Shock Lifetime of Thermal Barrier Coatings with Cold-sprayed MCrAlY Bond Coat. <i>Journal of Thermal Spray Technology</i> , 2010 , 19, 168-177	2.5	80
335	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	6.8	78
334	Preparation of flexible perovskite solar cells by a gas pump drying method on a plastic substrate. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 3704-3710	13	78
333	An effective approach for creating metallurgical self-bonding in plasma-spraying of NiCr-Mo coating by designing shell-core-structured powders. <i>Acta Materialia</i> , 2016 , 110, 19-30	8.4	75
332	Low temperature deposition and characterization of TiO ₂ photocatalytic film through cold spray. <i>Applied Surface Science</i> , 2008 , 254, 3979-3982	6.7	72
331	Dominant effect of carbide rebounding on the carbon loss during high velocity oxy-fuel spraying of Cr ₃ C ₂ NiCr. <i>Thin Solid Films</i> , 2002 , 419, 137-143	2.2	72
330	Cold spraying of Fe/Al powder mixture: Coating characteristics and influence of heat treatment on the phase structure. <i>Applied Surface Science</i> , 2008 , 255, 2538-2544	6.7	71

329	Development of Particle Interface Bonding in Thermal Spray Coatings: A Review. <i>Journal of Thermal Spray Technology</i> , 2013 , 22, 192-206	2.5	69
328	Modeling Aspects of High Velocity Impact of Particles in Cold Spraying by Explicit Finite Element Analysis. <i>Journal of Thermal Spray Technology</i> , 2009 , 18, 921-933	2.5	68
327	Thermal fatigue behavior of thermal barrier coatings with the MCrAlY bond coats by cold spraying and low-pressure plasma spraying. <i>Surface and Coatings Technology</i> , 2010 , 205, 2225-2233	4.4	68
326	A theoretical model for prediction of deposition efficiency in cold spraying. <i>Thin Solid Films</i> , 2005 , 489, 79-85	2.2	67
325	Critical bonding temperature for the splat bonding formation during plasma spraying of ceramic materials. <i>Surface and Coatings Technology</i> , 2013 , 235, 841-847	4.4	66
324	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	35.4	65
323	Influence of Powder Porous Structure on the Deposition Behavior of Cold-Sprayed WC-12Co Coatings. <i>Journal of Thermal Spray Technology</i> , 2008 , 17, 742-749	2.5	65
322	Effect of sprayed powder particle size on the oxidation behavior of MCrAlY materials during high velocity oxygen-fuel deposition. <i>Surface and Coatings Technology</i> , 2003 , 162, 31-41	4.4	65
321	Characterization of microstructure of Nano-TiO ₂ coating deposited by vacuum cold spraying. <i>Journal of Thermal Spray Technology</i> , 2006 , 15, 513-517	2.5	62
320	Effect of densification processes on the properties of plasma-sprayed YSZ electrolyte coatings for solid oxide fuel cells. <i>Surface and Coatings Technology</i> , 2005 , 190, 60-64	4.4	62
319	Low-temperature SnO ₂ -modified TiO ₂ yields record efficiency for normal planar perovskite solar modules. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 10233-10242	13	60
318	Microstructural and Mechanical Property Evolutions of Plasma-Sprayed YSZ Coating During High-Temperature Exposure: Comparison Study Between 8YSZ and 20YSZ. <i>Journal of Thermal Spray Technology</i> , 2013 , 22, 1294-1302	2.5	60
317	Fracture toughness measurements of plasma-sprayed thermal barrier coatings using a modified four-point bending method. <i>Surface and Coatings Technology</i> , 2010 , 204, 4066-4074	4.4	60
316	Ultra-high open-circuit voltage of perovskite solar cells induced by nucleation thermodynamics on rough substrates. <i>Scientific Reports</i> , 2017 , 7, 46141	4.9	58
315	Influence of through-lamella grain growth on ionic conductivity of plasma-sprayed yttria-stabilized zirconia as an electrolyte in solid oxide fuel cells. <i>Journal of Power Sources</i> , 2008 , 176, 31-38	8.9	58
314	Simultaneous strengthening and toughening effects in WC(nanoWC)Co). <i>Scripta Materialia</i> , 2012 , 66, 777-780	5.6	55
313	Relationship Between Lamellar Structure and Elastic Modulus of Thermally Sprayed Thermal Barrier Coatings with Intra-splat Cracks. <i>Journal of Thermal Spray Technology</i> , 2015 , 24, 1355-1367	2.5	54
312	Performance of YSZ electrolyte layer deposited by atmospheric plasma spraying for cermet-supported tubular SOFC. <i>Vacuum</i> , 2004 , 73, 699-703	3.7	54

3 ¹¹	Multiple strengthening mechanisms of cold-sprayed cBNp/NiCrAl composite coating. <i>Surface and Coatings Technology</i> , 2011 , 205, 4808-4813	4.4	53
3 ¹⁰	Effect of heat treatment on the microstructure and property of cold-sprayed nanostructured FeAl/Al ₂ O ₃ intermetallic composite coating. <i>Vacuum</i> , 2008 , 83, 146-152	3.7	53
3 ⁰⁹	Influence of Microstructure on the Ionic Conductivity of Plasma-Sprayed Yttria-Stabilized Zirconia Deposits. <i>Journal of the American Ceramic Society</i> , 2008 , 91, 3931-3936	3.8	53
3 ⁰⁸	Examination of factors influencing the bond strength of high velocity oxy-fuel sprayed coatings. <i>Surface and Coatings Technology</i> , 2006 , 200, 2923-2928	4.4	53
3 ⁰⁷	The lamellar structure of a detonation gun sprayed Al ₂ O ₃ coating. <i>Surface and Coatings Technology</i> , 1996 , 82, 254-258	4.4	53
3 ⁰⁶	Sintering-induced delamination of thermal barrier coatings by gradient thermal cyclic test. <i>Journal of the American Ceramic Society</i> , 2017 , 100, 1820-1830	3.8	52
3 ⁰⁵	Room-temperature nitrogen-dioxide sensors based on ZnO _{1-x} coatings deposited by solution precursor plasma spray. <i>Sensors and Actuators B: Chemical</i> , 2017 , 242, 102-111	8.5	52
3 ⁰⁴	Fabrication of Nano-TiO ₂ Coating for Dye-Sensitized Solar Cell by Vacuum Cold Spraying at Room Temperature. <i>Journal of Thermal Spray Technology</i> , 2007 , 16, 893-897	2.5	52
3 ⁰³	Evolution of Lamellar Interface Cracks During Isothermal Cyclic Test of Plasma-Sprayed 8YSZ Coating with a Columnar-Structured YSZ Interlayer. <i>Journal of Thermal Spray Technology</i> , 2013 , 22, 1374-1382	2.5	50
3 ⁰²	Non-parabolic isothermal oxidation kinetics of low pressure plasma sprayed MCrAlY bond coat. <i>Applied Surface Science</i> , 2017 , 406, 99-109	6.7	49
3 ⁰¹	Microstructural Characterization of Cold-Sprayed Nanostructured FeAl Intermetallic Compound Coating and its Ball-Milled Feedstock Powders. <i>Journal of Thermal Spray Technology</i> , 2007 , 16, 669-676	2.5	49
3 ⁰⁰	Cold spraying of AlSn binary alloy: Coating characteristics and particle bonding features. <i>Surface and Coatings Technology</i> , 2008 , 202, 1681-1687	4.4	49
2 ⁹⁹	Effect of solid carbide particle size on deposition behaviour, microstructure and wear performance of HVOF cermet coatings. <i>Materials Science and Technology</i> , 2004 , 20, 1087-1096	1.5	48
2 ⁹⁸	Highly oxidation resistant and cost effective MCrAlY bond coats prepared by controlled atmosphere heat treatment. <i>Surface and Coatings Technology</i> , 2018 , 347, 54-65	4.4	47
2 ⁹⁷	Effect of impact-induced melting on interface microstructure and bonding of cold-sprayed zinc coating. <i>Applied Surface Science</i> , 2010 , 257, 1516-1523	6.7	47
2 ⁹⁶	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	8.1	47
2 ⁹⁵	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	5.1	46
2 ⁹⁴	Optimal design of a convergent-barrel cold spray nozzle by numerical method. <i>Applied Surface Science</i> , 2006 , 253, 708-713	6.7	46

293	Transient contact pressure during flattening of thermal spray droplet and its effect on splat formation. <i>Journal of Thermal Spray Technology</i> , 2004 , 13, 229-238	2.5	46
292	Conditions and mechanisms for the bonding of a molten ceramic droplet to a substrate after high-speed impact. <i>Acta Materialia</i> , 2016 , 119, 9-25	8.4	45
291	Influence of substrate hardness transition on built-up of nanostructured WC ₁₂ Co by cold spraying. <i>Applied Surface Science</i> , 2010 , 256, 2263-2268	6.7	45
290	Electrochemical method to evaluate the connected porosity in ceramic coatings. <i>Thin Solid Films</i> , 1988 , 156, 315-326	2.2	45
289	Preliminary Study of Performance of Dye-Sensitized Solar Cell of Nano-TiO ₂ Coating Deposited by Vacuum Cold Spraying. <i>Materials Transactions</i> , 2006 , 47, 1703-1709	1.3	44
288	Microstructure and photocatalytic performance of high velocity oxy-fuel sprayed TiO ₂ coatings. <i>Thin Solid Films</i> , 2004 , 466, 81-85	2.2	44
287	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	2.5	43
286	Influence of substrate hardness on deposition behavior of single porous WC-12Co particle in cold spraying. <i>Surface and Coatings Technology</i> , 2008 , 203, 384-390	4.4	43
285	Gaseous material capacity of open plasma jet in plasma spray-physical vapor deposition process. <i>Applied Surface Science</i> , 2018 , 428, 877-884	6.7	42
284	High-Temperature Erosion of HVOF Sprayed Cr ₃ C ₂ -NiCr Coating and Mild Steel for Boiler Tubes. <i>Journal of Thermal Spray Technology</i> , 2008 , 17, 782-787	2.5	42
283	Thermodynamic conditions for cluster formation in supersaturated boundary layer during plasma spray-physical vapor deposition. <i>Applied Surface Science</i> , 2019 , 471, 950-959	6.7	42
282	Visible light enhanced black NiO sensors for ppb-level NO ₂ detection at room temperature. <i>Ceramics International</i> , 2019 , 45, 4253-4261	5.1	42
281	Effect of spray parameters on the electrical conductivity of plasma-sprayed La _{1-x} Sr _x MnO ₃ coating for the cathode of SOFCs. <i>Surface and Coatings Technology</i> , 2005 , 198, 278-282	4.4	41
280	Morphology and Size Evolution of Interlamellar Two-Dimensional Pores in Plasma-Sprayed La ₂ Zr ₂ O ₇ Coatings During Thermal Exposure at 1300 °C. <i>Journal of Thermal Spray Technology</i> , 2015 , 24, 739-748	2.5	40
279	Effect of annealing on the microstructure and erosion performance of cold-sprayed FeAl intermetallic coatings. <i>Surface and Coatings Technology</i> , 2011 , 205, 5502-5509	4.4	40
278	Gradient thermal cyclic behaviour of La ₂ Zr ₂ O ₇ /YSZ DCL-TBCs with equivalent thermal insulation performance. <i>Journal of the European Ceramic Society</i> , 2018 , 38, 1888-1896	6	40
277	Effect of spray conditions on deposition behavior and microstructure of cold sprayed Ni coatings sprayed with a porous electrolytic Ni powder. <i>Surface and Coatings Technology</i> , 2016 , 289, 85-93	4.4	39
276	Influence of Deposition Temperature on the Microstructures and Properties of Plasma-Sprayed Al ₂ O ₃ Coatings. <i>Journal of Thermal Spray Technology</i> , 2011 , 20, 160-169	2.5	39

275	Formation of NiAl Intermetallic Compound by Cold Spraying of Ball-Milled Ni/Al Alloy Powder Through Postannealing Treatment. <i>Journal of Thermal Spray Technology</i> , 2008 , 17, 715-720	2.5	39
274	Experimental determination of the relationship between flattening degree and Reynolds number for spray molten droplets. <i>Surface and Coatings Technology</i> , 2005 , 191, 375-383	4.4	39
273	A comprehensive mechanism for the sintering of plasma-sprayed nanostructured thermal barrier coatings. <i>Ceramics International</i> , 2017 , 43, 9600-9615	5.1	38
272	Atmospheric plasma-sprayed La _{0.8} Sr _{0.2} Ga _{0.8} Mg _{0.2} O ₃ electrolyte membranes for intermediate-temperature solid oxide fuel cells. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 7535-7553	13	38
271	Modeling Thermal Conductivity of Thermally Sprayed Coatings with Intrasplat Cracks. <i>Journal of Thermal Spray Technology</i> , 2013 , 22, 1328-1336	2.5	38
270	High strain rate induced localized amorphization in cubic BN/NiCrAl nanocomposite through high velocity impact. <i>Scripta Materialia</i> , 2011 , 65, 581-584	5.6	38
269	Effect of particle state on the adhesive strength of HVOF sprayed metallic coating. <i>Journal of Thermal Spray Technology</i> , 2002 , 11, 523-529	2.5	38
268	Effect of composition of NiO/YSZ anode on the polarization characteristics of SOFC fabricated by atmospheric plasma spraying. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 2964-2969	6.7	37
267	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	5.1	37
266	Large sized cubic BN reinforced nanocomposite with improved abrasive wear resistance deposited by cold spray. <i>Materials and Design</i> , 2015 , 83, 249-256	8.1	36
265	Vacuum heat treatment mechanisms promoting the adhesion strength of thermally sprayed metallic coatings. <i>Surface and Coatings Technology</i> , 2018 , 344, 102-110	4.4	36
264	Mechanical property and wear performance dependence on processing condition for cold-sprayed WC-(nanoWC-Co). <i>Applied Surface Science</i> , 2015 , 332, 80-88	6.7	36
263	A Novel Plasma-Sprayed Durable Thermal Barrier Coating with a Well-Bonded YSZ Interlayer Between Porous YSZ and Bond Coat. <i>Journal of Thermal Spray Technology</i> , 2012 , 21, 383-390	2.5	36
262	Modification of microstructure and electrical conductivity of plasma-sprayed YSZ deposit through post-densification process. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006 , 428, 98-105	5.3	36
261	Transport and deposition behaviors of vapor coating materials in plasma spray-physical vapor deposition. <i>Applied Surface Science</i> , 2019 , 486, 80-92	6.7	35
260	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	6	35
259	Improvement of Adhesion and Cohesion in Plasma-Sprayed Ceramic Coatings by Heterogeneous Modification of Nonbonded Lamellar Interface Using High Strength Adhesive Infiltration. <i>Journal of Thermal Spray Technology</i> , 2013 , 22, 36-47	2.5	35
258	Thermal Stability of Microstructure and Hardness of Cold-Sprayed cBN/NiCrAl Nanocomposite Coating. <i>Journal of Thermal Spray Technology</i> , 2012 , 21, 578-585	2.5	35

257	Study on gas permeation behaviour through atmospheric plasma-sprayed yttria stabilized zirconia coating. <i>Surface and Coatings Technology</i> , 2008 , 202, 5055-5061	4.4	35
256	Deposition of fully dense Al-based coatings via in-situ micro-forging assisted cold spray for excellent corrosion protection of AZ31B magnesium alloy. <i>Journal of Alloys and Compounds</i> , 2019 , 806, 1116-1126	5.7	34
255	Highly oxidation resistant MCrAlY bond coats prepared by heat treatment under low oxygen content. <i>Surface and Coatings Technology</i> , 2019 , 368, 192-201	4.4	33
254	High-temperature oxidation behavior of CuAlNiCrFe high-entropy alloy bond coats deposited using high-speed laser cladding process. <i>Surface and Coatings Technology</i> , 2020 , 398, 126093	4.4	33
253	Effect of Chemical Compositions and Surface Morphologies of MCrAlY Coating on Its Isothermal Oxidation Behavior. <i>Journal of Thermal Spray Technology</i> , 2011 , 20, 121-131	2.5	33
252	Erosion Performance of HVOF-Sprayed Cr ₃ C ₂ -NiCr Coatings. <i>Journal of Thermal Spray Technology</i> , 2007 , 16, 557-565	2.5	33
251	The influence of temperature gradient across YSZ on thermal cyclic lifetime of plasma-sprayed thermal barrier coatings. <i>Ceramics International</i> , 2015 , 41, 11046-11056	5.1	32
250	Characterization of Plasma Jet in Plasma Spray-Physical Vapor Deposition of YSZ Using a . <i>Journal of Thermal Spray Technology</i> , 2015 , 24, 1038-1045	2.5	32
249	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	13	31
248	The Correlation of the TBC Lifetimes in Burner Cycling Test with Thermal Gradient and Furnace Isothermal Cycling Test by TGO Effects. <i>Journal of Thermal Spray Technology</i> , 2017 , 26, 378-387	2.5	31
247	Sintering characteristics of plasma-sprayed TBCs: Experimental analysis and an overall modelling. <i>Ceramics International</i> , 2018 , 44, 2982-2990	5.1	31
246	Propagation feature of cracks in plasma-sprayed YSZ coatings under gradient thermal cycling. <i>Ceramics International</i> , 2015 , 41, 3481-3489	5.1	30
245	Isothermal Oxidation Behavior of NiCoCrAlTaY Coating Deposited by High Velocity Air-Fuel Spraying. <i>Journal of Thermal Spray Technology</i> , 2012 , 21, 391-399	2.5	30
244	Influence of Annealing on Photocatalytic Performance and Adhesion of Vacuum Cold-Sprayed Nanostructured TiO ₂ Coating. <i>Journal of Thermal Spray Technology</i> , 2007 , 16, 873-880	2.5	30
243	Thermal Failure of Nanostructured Thermal Barrier Coatings with Cold-Sprayed Nanostructured NiCrAlY Bond Coat. <i>Journal of Thermal Spray Technology</i> , 2008 , 17, 838-845	2.5	30
242	Examination of substrate surface melting-induced splashing during splat formation in plasma spraying. <i>Journal of Thermal Spray Technology</i> , 2006 , 15, 717-724	2.5	30
241	Phase formation of nano-TiO ₂ particles during flame spraying with liquid feedstock. <i>Journal of Thermal Spray Technology</i> , 2005 , 14, 480-486	2.5	30
240	Strain-induced multiscale structural changes in lamellar thermal barrier coatings. <i>Ceramics International</i> , 2017 , 43, 2252-2266	5.1	29

239	Properties evolution of plasma-sprayed La ₂ Zr ₂ O ₇ coating induced by pore structure evolution during thermal exposure. <i>Ceramics International</i> , 2016 , 42, 15485-15492	5.1	29
238	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	8.3	28
237	Effect of in-flight particle velocity on the performance of plasma-sprayed YSZ electrolyte coating for solid oxide fuel cells. <i>Surface and Coatings Technology</i> , 2008 , 202, 2654-2660	4.4	28
236	Dependency of fracture toughness of plasma sprayed Al ₂ O ₃ coatings on lamellar structure. <i>Journal of Thermal Spray Technology</i> , 2004 , 13, 425-431	2.5	28
235	Effect of WC Particle Size on the Abrasive Wear of Thermally Sprayed WC-Co Coatings. <i>Materials and Manufacturing Processes</i> , 1999 , 14, 175-184	4.1	28
234	Epitaxial growth during the rapid solidification of plasma-sprayed molten TiO ₂ splat. <i>Acta Materialia</i> , 2017 , 134, 66-80	8.4	27
233	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	6	27
232	Dependence of scale thickness on the breaking behavior of the initial oxide on plasma spray bond coat surface during vacuum pre-treatment. <i>Applied Surface Science</i> , 2017 , 397, 125-132	6.7	27
231	Effects of spray parameters on the microstructure and property of Al ₂ O ₃ coatings sprayed by a low power plasma torch with a novel hollow cathode. <i>Thin Solid Films</i> , 2004 , 450, 282-289	2.2	27
230	Formation of nanostructured TiO ₂ by flame spraying with liquid feedstock. <i>Materials Letters</i> , 2003 , 57, 2130-2134	3.3	27
229	Effect of types of ceramic materials in aggregated powder on the adhesive strength of high velocity oxy-fuel sprayed cermet coatings. <i>Surface and Coatings Technology</i> , 2001 , 145, 113-120	4.4	27
228	Hierarchical Formation of Intrasplat Cracks in Thermal Spray Ceramic Coatings. <i>Journal of Thermal Spray Technology</i> , 2016 , 25, 959-970	2.5	26
227	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	5.1	25
226	Edge Effect on Crack Patterns in Thermally Sprayed Ceramic Splats. <i>Journal of Thermal Spray Technology</i> , 2017 , 26, 302-314	2.5	25
225	Healing of the Interface Between Splashed Particles and Underlying Bulk Coating and Its Influence on Isothermal Oxidation Behavior of LPPS MCrAlY Bond Coat. <i>Journal of Thermal Spray Technology</i> , 2015 , 24, 611-621	2.5	25
224	Effect of Gas Conditions on HVOF Flame and Properties of WC-Co Coatings. <i>Materials and Manufacturing Processes</i> , 1999 , 14, 383-395	4.1	25
223	A new approach to prepare fully dense Cu with high conductivities and anti-corrosion performance by cold spray. <i>Journal of Alloys and Compounds</i> , 2018 , 740, 406-413	5.7	25
222	A novel structure of YSZ coatings by atmospheric laminar plasma spraying technology. <i>Scripta Materialia</i> , 2018 , 153, 73-76	5.6	25

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