

Yong Yang

List of Publications by Year in descending order

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82
papers

1,634
citations

279798

23
h-index

361022

35
g-index

82
all docs

82
docs citations

82
times ranked

1112
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermal shock behavior of nanostructured and conventional Al ₂ O ₃ /13wt%TiO ₂ coatings fabricated by plasma spraying. <i>Surface and Coatings Technology</i> , 2007, 201, 7746-7754.	4.8	90
2	Microstructure, spallation and corrosion of plasma sprayed Al ₂ O ₃ -13%TiO ₂ coatings. <i>Corrosion Science</i> , 2009, 51, 2924-2931.	6.6	87
3	Laser surface remelting of plasma sprayed nanostructured Al ₂ O ₃ -13wt%TiO ₂ coatings on titanium alloy. <i>Applied Surface Science</i> , 2009, 255, 8603-8610.	6.1	73
4	Sliding wear and electrochemical corrosion behavior of plasma sprayed nanocomposite Al ₂ O ₃ -13%TiO ₂ coatings. <i>Materials Chemistry and Physics</i> , 2009, 118, 37-45.	4.0	56
5	In situ nanostructured ceramic matrix composite coating prepared by reactive plasma spraying micro-sized Al-Fe ₂ O ₃ composite powders. <i>Journal of Alloys and Compounds</i> , 2011, 509, L90-L94.	5.5	54
6	Corrosion behavior of plasma sprayed ceramic and metallic coatings on carbon steel in simulated seawater. <i>Materials & Design</i> , 2013, 52, 630-637.	5.1	50
7	In situ porous alumina/aluminum titanate ceramic composite prepared by spark plasma sintering from nanostructured powders. <i>Scripta Materialia</i> , 2009, 60, 578-581.	5.2	49
8	Influence of composite powders' microstructure on the microstructure and properties of Al ₂ O ₃ -TiO ₂ coatings fabricated by plasma spraying. <i>Materials & Design</i> , 2015, 65, 814-822.	5.1	47
9	Toughening and strengthening mechanism of plasma sprayed nanostructured Al ₂ O ₃ -13wt.%TiO ₂ coatings. <i>Surface and Coatings Technology</i> , 2009, 204, 642-649.	4.8	44
10	The effects of ceria on the mechanical properties and thermal shock resistance of thermal sprayed NiAl intermetallic coatings. <i>Intermetallics</i> , 2008, 16, 682-688.	3.9	43
11	Microstructure and properties of Al ₂ O ₃ -ZrO ₂ composite coatings prepared by air plasma spraying. <i>Applied Surface Science</i> , 2018, 431, 93-100.	6.1	43
12	The effect of modified epoxy sealing on the electrochemical corrosion behaviour of reactive plasma-sprayed TiN coatings. <i>Corrosion Science</i> , 2013, 75, 220-227.	6.6	42
13	Preparation of nanostructured alumina-titania composite powders by spray drying, heat treatment and plasma treatment. <i>Powder Technology</i> , 2012, 219, 257-263.	4.2	40
14	Reinforcing and toughening alumina/titania ceramic composites with nano-dopants from nanostructured composite powders. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009, 508, 161-166.	5.6	39
15	Three body abrasive wear characteristics of plasma sprayed conventional and nanostructured Al ₂ O ₃ -13%TiO ₂ coatings. <i>Tribology International</i> , 2010, 43, 876-881.	5.9	37
16	In situ alumina/aluminum titanate bulk ceramic composites prepared by SPS from different structured composite powders. <i>Journal of Alloys and Compounds</i> , 2009, 481, 858-862.	5.5	32
17	Preparing of nanostructured Al ₂ O ₃ -TiO ₂ -ZrO ₂ composite powders and plasma spraying nanostructured composite coating. <i>Vacuum</i> , 2013, 96, 39-45.	3.5	32
18	Microstructure and properties of in-situ TiB ₂ matrix composite coatings prepared by plasma spraying. <i>Applied Surface Science</i> , 2018, 431, 48-54.	6.1	32

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19	Microstructures, hardness and erosion behavior of thermal sprayed and heat treated NiAl coatings with different ceria. <i>Wear</i> , 2007, 263, 371-378.	3.1	31
20	Alumina-titania ceramics prepared by microwave sintering and conventional pressure-less sintering. <i>Journal of Alloys and Compounds</i> , 2012, 525, 63-67.	5.5	29
21	Fretting wear behavior of conventional and nanostructured Al ₂ O ₃ -13wt%TiO ₂ coatings fabricated by plasma spray. <i>Wear</i> , 2008, 265, 1700-1707.	3.1	27
22	First-principles study of NiAl microalloyed with Sc, Y, La and Nd. <i>Computational Materials Science</i> , 2010, 50, 545-549.	3.0	26
23	Investigation of stress field and failure mode of plasma sprayed Al ₂ O ₃ -13%TiO ₂ coatings under thermal shock. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009, 516, 103-110.	5.6	23
24	Preparation and sintering behaviour of nanostructured alumina/titania composite powders modified with nano-dopants. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008, 490, 457-464.	5.6	21
25	Effect of Microstructure of Composite Powders on Microstructure and Properties of Microwave Sintered Alumina Matrix Ceramics. <i>Journal of Materials Science and Technology</i> , 2013, 29, 429-433.	10.7	21
26	Porous nanostructured ZrO ₂ coatings prepared by plasma spraying. <i>Surface and Coatings Technology</i> , 2019, 363, 112-119.	4.8	19
27	Sliding wear behaviors of in situ alumina/aluminum titanate ceramic composites. <i>Wear</i> , 2009, 266, 1051-1057.	3.1	18
28	The effect of metallic bonding layer on the corrosion behavior of plasma sprayed Al ₂ O ₃ ceramic coatings in simulated seawater. <i>Vacuum</i> , 2014, 101, 6-9.	3.5	18
29	Sliding wear behavior of in-situ FeAl ₂ O ₄ matrix nanocomposite coating fabricated by plasma spraying. <i>Tribology International</i> , 2015, 81, 97-104.	5.9	18
30	Microstructure and tribological behavior of laser cladding TiAlSi composite coatings reinforced by alumina-titania ceramics on Ti-6Al-4V alloys. <i>Materials Chemistry and Physics</i> , 2020, 240, 122271.	4.0	18
31	Research Progress of Failure Mechanism of Thermal Barrier Coatings at High Temperature via Finite Element Method. <i>Coatings</i> , 2020, 10, 732.	2.6	18
32	In-situ TiC-Ti ₅ Si ₃ -SiC composite coatings prepared by plasma spraying. <i>Surface and Coatings Technology</i> , 2020, 404, 126484.	4.8	18
33	Microstructure and properties of Al ₂ O ₃ -Y ₂ O ₃ ceramic composite coatings fabricated by plasma spraying. <i>Surface and Coatings Technology</i> , 2018, 350, 550-559.	4.8	17
34	Effect of annealing in Ar on the microstructure and properties of thick nano-grained TiN ceramic coatings. <i>Ceramics International</i> , 2017, 43, 9303-9309.	4.8	16
35	Effects of treatment process and nano-additives on the microstructure and properties of Al ₂ O ₃ -TiO ₂ nanocomposite powders used for plasma spraying. <i>Powder Technology</i> , 2018, 338, 304-312.	4.2	16
36	In-situ synthesis, microstructure, and properties of NbB ₂ -NbC-Al ₂ O ₃ composite coatings by plasma spraying. <i>Journal of Advanced Ceramics</i> , 2022, 11, 1263-1278.	17.4	16

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37	Microstructure and properties of Al ₂ O ₃ -ZrO ₂ -TiO ₂ composite coatings prepared by plasma spraying. <i>Rare Metals</i> , 2021, 40, 1825-1834.	7.1	15
38	Comparison of plasma sprayed NbB ₂ -NbC coatings obtained by ex-situ and in-situ approaches. <i>Journal of the European Ceramic Society</i> , 2021, 41, 5088-5099.	5.7	15
39	Effect of metal oxide additives on the microstructure and properties of the FeAl ₂ O ₄ matrix composite coatings prepared by plasma spraying. <i>Surface and Coatings Technology</i> , 2013, 235, 417-423.	4.8	14
40	Microstructure and Properties of Al ₂ O ₃ -ZrO ₂ -Y ₂ O ₃ Composite Coatings Prepared by Plasma Spraying. <i>Journal of Thermal Spray Technology</i> , 2020, 29, 967-978.	3.1	14
41	Microstructure and properties of in-situ composite coatings prepared by plasma spraying MoO ₃ -Al composite powders. <i>Ceramics International</i> , 2021, 47, 1109-1120.	4.8	14
42	Phase transitions of plasma sprayed Fe-Al intermetallic coating during corrosion in molten zinc at 640°C. <i>Intermetallics</i> , 2012, 22, 160-165.	3.9	13
43	Nanocomposite powder with three-dimensional network structure for preparing alumina-titania nanocomposite coating with advanced performance. <i>Journal of Alloys and Compounds</i> , 2015, 622, 929-934.	5.5	13
44	In situ (Al,Cr) ₂ O ₃ -Cr composite coating fabricated by reactive plasma spraying. <i>Ceramics International</i> , 2017, 43, 6340-6344.	4.8	13
45	Microstructure Characterization of the FeAl ₂ O ₄ -Based Nanostructured Composite Coating Synthesized by Plasma Spraying Fe ₂ O ₃ /Al Powders. <i>Journal of Thermal Spray Technology</i> , 2011, 20, 1269-1277.	3.1	12
46	Influence of oxides addition on the reaction of Fe ₂ O ₃ -Al composite powders in plasma flame. <i>Journal of Alloys and Compounds</i> , 2013, 579, 1-6.	5.5	12
47	Microstructure and properties of in-situ ceramic matrix eutectic nanocomposite coating prepared by plasma spraying Al-Cr ₂ O ₃ -Al ₂ O ₃ powder. <i>Journal of Alloys and Compounds</i> , 2018, 748, 230-235.	5.5	12
48	Effect of CeO ₂ on the Microstructure and Properties of Plasma-Sprayed Al ₂ O ₃ -ZrO ₂ Ceramic Coatings. <i>Journal of Materials Engineering and Performance</i> , 2020, 29, 6390-6401.	2.5	12
49	Effects of SiC on microstructure and properties of plasma sprayed ZrB ₂ -ZrC composite coating. <i>Ceramics International</i> , 2021, 47, 12753-12761.	4.8	12
50	Microstructure and properties of CrB ₂ -Cr ₃ C ₂ composite coatings prepared by plasma spraying. <i>Surface and Coatings Technology</i> , 2021, 425, 127693.	4.8	12
51	Microstructure and properties of composite coatings prepared by plasma spraying ZrO ₂ -B ₂ O ₃ -Al composite powders. <i>Journal of Alloys and Compounds</i> , 2018, 740, 124-131.	5.5	11
52	Reaction products and their solidification process of the plasma sprayed Fe ₂ O ₃ -Al composite powders. <i>Materials Chemistry and Physics</i> , 2012, 133, 190-196.	4.0	10
53	Phase evolution of plasma sprayed Al ₂ O ₃ -13%TiO ₂ coatings derived from nanocrystalline powders. <i>Transactions of Nonferrous Metals Society of China</i> , 2013, 23, 2951-2956.	4.2	10
54	Structure and properties of nanostructured ceramic matrix composite coatings prepared in-situ by reactive plasma spraying micro-sized Al-Fe ₂ O ₃ -Cr ₂ O ₃ powders. <i>Ceramics International</i> , 2014, 40, 6481-6486.	4.8	9

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55	TiC-TiSi ₂ -Al ₂ O ₃ composite coatings prepared by spray drying, heat treatment and plasma spraying. Journal of Alloys and Compounds, 2021, 857, 158221.	5.5	9
56	Fabrication of plasma-sprayed TiC-Ti ₅ Si ₃ -Ti ₃ Si ₂ C ₂ composite coatings from the annealed Ti/SiC powders. Surface and Coatings Technology, 2021, 417, 127227.	4.8	9
57	Effect of nano-Al ₂ O ₃ on the microstructure and properties of Nb ₂ â€¢NbC composite coatings prepared by plasma spraying. Journal of the American Ceramic Society, 2022, 105, 712-727.	3.8	9
58	Effect of heat treatment temperature on the microstructure and wear corrosion properties of NiCrBSiâ€¢TiN composite coatings. Ceramics International, 2022, 48, 6933-6941.	4.8	9
59	Nanostructured Al ₂ O ₃ â€¢TiO ₂ coatings for high-temperature protection of titanium alloy during ablation. Materials Characterization, 2010, 61, 796-801.	4.4	8
60	Microstructure and properties of in situ nanostructured ceramic matrix composite coating prepared by plasma spraying. Journal of Materials Science, 2011, 46, 7369-7376.	3.7	8
61	Microstructure and properties of Al ₂ O ₃ -ZrO ₂ -Y ₂ O ₃ coatings during high temperature and thermal shock resistance. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	2.3	8
62	Microstructure and properties evolution of plasma sprayed Al ₂ O ₃ -Y ₂ O ₃ composite coatings during high temperature and thermal shock treatment. Journal of Rare Earths, 2021, 39, 718-727.	4.8	8
63	Microstructure and properties of Cr ₇ C ₃ -CrSi ₂ composite coatings prepared by plasma spraying. Surface and Coatings Technology, 2021, 412, 127011.	4.8	8
64	Preparation and Characterization of Rare Earth Modified Nanocrystalline Al ₂ O ₃ /13 wt%TiO ₂ Feedstock for Plasma Spraying. Journal of Nanoscience and Nanotechnology, 2009, 9, 1445-1448.	0.9	7
65	In situ composite coatings prepared by complex reactive plasma spraying of Fe ₂ O ₃ -Al-Cr ₂ O ₃ composite powders. Surface and Coatings Technology, 2017, 328, 94-101.	4.8	7
66	Microstructure and properties of in-situ ZrB ₂ -ZrC composite coatings by plasma spraying. Surface and Coatings Technology, 2021, 409, 126846.	4.8	6
67	Microstructure characterization of in-situ ZrC composite coating with graceful toughness and improved tribological properties prepared by plasma spraying. Materials Characterization, 2021, 179, 111382.	4.4	6
68	Electrochemical corrosion behavior of plasma sprayed Al ₂ O ₃ â€¢13%TiO ₂ coatings in aqueous hydrochloric acid solution. Materials and Corrosion - Werkstoffe Und Korrosion, 2010, 61, 611-617.	1.5	5
69	Formation of nanocrystalline FeAl ₂ O ₄ matrix coating by plasma spraying. Surface Engineering, 2012, 28, 333-337.	2.2	5
70	Microstructure and properties of niobium carbide composite coatings prepared by plasma spraying. Ceramics International, 2021, 47, 33338-33352.	4.8	5
71	Fundamental understanding on the microstructure and corrosion resistance of Cr-(Cr, Al) ₂ O ₃ composite coatings in-situ synthesized by reactive plasma spraying. Surface and Coatings Technology, 2021, 423, 127608.	4.8	5
72	Effects of Plasma-spraying Powers on Microstructure and Microhardness of In-Situ Nanostructured FeAl ₂ O ₄ Composite Coatings. Journal of Thermal Spray Technology, 2013, 22, 1002-1006.	3.1	4

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73	Structure and properties of nanostructured Fe(AlCr) ₂ O ₄ -(AlCr) ₂ O ₃ -Fe composite coating prepared by plasma spraying. <i>Ceramics International</i> , 2015, 41, 9801-9805.	4.8	4
74	Electrochemical Impedance Studies on Tribocorrosion Behavior of Plasma-Sprayed Al ₂ O ₃ Coatings. <i>Journal of Thermal Spray Technology</i> , 2015, 24, 878-884.	3.1	4
75	Effect of post-spray annealing on the microstructure and corrosion resistance of nano-(Ti,V)N coatings. <i>Surface and Coatings Technology</i> , 2022, 435, 128268.	4.8	4
76	Friction and wear characteristics of in-situ Cr+(Cr,Al) ₂ O ₃ composite coating fabricated by plasma spraying. <i>Materials Chemistry and Physics</i> , 2022, 287, 126199.	4.0	4
77	Microstructure and corrosion performance of Al _{0.5} FeCoNiCrMn coating prepared by plasma spraying mechanically alloyed powders. <i>Surface Engineering</i> , 2022, 38, 383-392.	2.2	4
78	TEM exploration of in-situ nanostructured composite coating fabricated by plasma spraying 8YSZ-Al-SiC composite powder. <i>Ceramics International</i> , 2022, 48, 25402-25412.	4.8	3
79	Ultrafine grained bulk ceramic composites consolidated from nanostructured composite powders by pressure less sintering. <i>Powder Metallurgy</i> , 2010, 53, 336-339.	1.7	1
80	Bimodal Distribution of Microstructure and Mechanical Properties of Plasma Sprayed Nanostructured Al ₂ O ₃ -13wt% TiO ₂ -B ₂ O ₃ Coatings. <i>Wuji Cailiao Xuebao/Journal of Inorganic Materials</i> , 2011, 26, 1003-1008.	1.3	1
81	Study of Reactive Plasma Sprayed TiN Electrocatalytic Carrier Coatings. <i>Applied Mechanics and Materials</i> , 2011, 130-134, 950-954.	0.2	0
82	Toughening mechanism of in-situ synthesized ZrB ₂ based composite coating by plasma spraying. <i>Journal of Materials Science</i> , 2022, 57, 4145-4152.	3.7	0