Yong Yang

List of Publications by Year
in descending order

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	Effect of nanoâ€Al₂O₃ on the microstructure and properties of NbB₂â€NbC composite coatings prepared by plasma spraying. Journal of the American Ceramic Society, 2022, 105, 712-727.	3.8	9
2	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
3	Toughening mechanism of in-situ synthesized ZrB2 based composite coating by plasma spraying. Journal of Materials Science, 2022, 57, 4145-4152.	3.7	0
4	Effect of post-spray annealing on the microstructure and corrosion resistance of nano-(Ti,V)N coatings. Surface and Coatings Technology, 2022, 435, 128268.	4.8	4
5	Friction and wear characteristics of in-situ Cr+(Cr,Al)2O3 composite coating fabricated by plasma spraying. Materials Chemistry and Physics, 2022, 287, 126199.	4.0	4
6	TEM exploration of in-situ nanostructured composite coating fabricated by plasma spraying 8YSZ-Al-SiC composite powder. Ceramics International, 2022, 48, 25402-25412.	4.8	3
7	In-situ synthesis, microstructure, and properties of NbB2-NbC-Al2O3 composite coatings by plasma spraying. Journal of Advanced Ceramics, 2022, 11, 1263-1278.	17.4	16
8	Microstructure and corrosion performance of Al_{0.5}FeCoNiCrMn coating prepared by plasma spraying mechanically alloyed powders. Surface Engineering, 2022, 38, 383-392.	2.2	4
9	Microstructure and properties of Al2O3â€“ZrO2â€“TiO2 composite coatings prepared by plasma spraying. Rare Metals, 2021, 40, 1825-1834.	7.1	15
10	Microstructure and properties evolution of plasma sprayed Al2O3-Y2O3 composite coatings during high temperature and thermal shock treatment. Journal of Rare Earths, 2021, 39, 718-727.	4.8	8
11	TiC-TiSi2-Al2O3 composite coatings prepared by spray drying, heat treatment and plasma spraying. Journal of Alloys and Compounds, 2021, 857, 158221.	5.5	9
12	Microstructure and properties of in-situ composite coatings prepared by plasma spraying MoO3â€“Al composite powders. Ceramics International, 2021, 47, 1109-1120.	4.8	14
13	Microstructure and properties of in-situ ZrB2-ZrC composite coatings by plasma spraying. Surface and Coatings Technology, 2021, 409, 126846.	4.8	6
14	Microstructure and properties of Cr7C3-CrSi2 composite coatings prepared by plasma spraying. Surface and Coatings Technology, 2021, 412, 127011.	4.8	8
15	Effects of SiC on microstructure and properties of plasma sprayed ZrB2â€“ZrC composite coating. Ceramics International, 2021, 47, 12753-12761.	4.8	12
16	Fabrication of plasma-sprayed TiC-Ti5Si3-Ti3SiC2 composite coatings from the annealed Ti/SiC powders. Surface and Coatings Technology, 2021, 417, 127227.	4.8	9
17	Comparison of plasma sprayed NbB2-NbC coatings obtained by ex-situ and in-situ approaches. Journal of the European Ceramic Society, 2021, 41, 5088-5099.	5.7	15
18	Microstructure and properties of niobium carbide composite coatings prepared by plasma spraying. Ceramics International, 2021, 47, 33338-33352.	4.8	5

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19	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
20	Fundamental understanding on the microstructure and corrosion resistance of Cr-(Cr, Al)2O3 composite coatings in-situ synthetized by reactive plasma spraying. Surface and Coatings Technology, 2021, 423, 127608.	4.8	5
21	Microstructure and properties of CrB2-Cr3C2 composite coatings prepared by plasma spraying. Surface and Coatings Technology, 2021, 425, 127693.	4.8	12
22	Microstructure and tribological behavior of laser cladding TiAlSi composite coatings reinforced by aluminaâ€"titania ceramics on Tiâ€"6Alâ€"4V alloys. Materials Chemistry and Physics, 2020, 240, 122271.	4.0	18
23	Effect of CeO2 on the Microstructure and Properties of Plasma-Sprayed Al2O3-ZrO2 Ceramic Coatings. Journal of Materials Engineering and Performance, 2020, 29, 6390-6401.	2.5	12
24	Microstructure and properties of Al2O3-ZrO2-Y2O3 coatings during high temperature and thermal shock resistance. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	2.3	8
25	Research Progress of Failure Mechanism of Thermal Barrier Coatings at High Temperature via Finite Element Method. Coatings, 2020, 10, 732.	2.6	18
26	In-situ TiC-Ti5Si3-SiC composite coatings prepared by plasma spraying. Surface and Coatings Technology, 2020, 404, 126484.	4.8	18
27	Microstructure and Properties of Al2O3â€"ZrO2â€"Y2O3 Composite Coatings Prepared by Plasma Spraying. Journal of Thermal Spray Technology, 2020, 29, 967-978.	3.1	14
28	Porous nanostructured ZrO2 coatings prepared by plasma spraying. Surface and Coatings Technology, 2019, 363, 112-119.	4.8	19
29	Microstructure and properties of composite coatings prepared by plasma spraying ZrO2-B2O3-Al composite powders. Journal of Alloys and Compounds, 2018, 740, 124-131.	5.5	11
30	Microstructure and properties of in-situ ceramic matrix eutectic nanocomposite coating prepared by plasma spraying Al-Cr2O3-Al2O3 powder. Journal of Alloys and Compounds, 2018, 748, 230-235.	5.5	12
31	Microstructure and properties of in-situ TiB 2 matrix composite coatings prepared by plasma spraying. Applied Surface Science, 2018, 431, 48-54.	6.1	32
32	Microstructure and properties of Al 2 O 3 -ZrO 2 composite coatings prepared by air plasma spraying. Applied Surface Science, 2018, 431, 93-100.	6.1	43
33	Effects of treatment process and nano-additives on the microstructure and properties of Al2O3-TiO2 nanocomposite powders used for plasma spraying. Powder Technology, 2018, 338, 304-312.	4.2	16
34	Microstructure and properties of Al2O3-Y2O3 ceramic composite coatings fabricated by plasma spraying. Surface and Coatings Technology, 2018, 350, 550-559.	4.8	17
35	Effect of annealing in Ar on the microstructure and properties of thick nano-grained TiN ceramic coatings. Ceramics International, 2017, 43, 9303-9309.	4.8	16
36	In situ (Al,Cr) 2 O 3 -Cr composite coating fabricated by reactive plasma spraying. Ceramics International, 2017, 43, 6340-6344.	4.8	13

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37	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
38	Nanocomposite powder with three-dimensional network structure for preparing aluminaâ€"titania nanocomposite coating with advanced performance. Journal of Alloys and Compounds, 2015, 622, 929-934.	5.5	13
39	Structure and properties of nanostructured Fe(AlCr)2O4â€"Crâ€"(AlCr)2O3â€"Fe composite coating prepared by plasma spraying. Ceramics International, 2015, 41, 9801-9805.	4.8	4
40	Electrochemical Impedance Studies on Tribocorrosion Behavior of Plasma-Sprayed Al2O3 Coatings. Journal of Thermal Spray Technology, 2015, 24, 878-884.	3.1	4
41	Influence of composite powdersâ€™ microstructure on the microstructure and properties of Al2O3â€"TiO2 coatings fabricated by plasma spraying. Materials & Design, 2015, 65, 814-822.	5.1	47
42	Sliding wear behavior of in-situ FeAl2O4 matrix nanocomposite coating fabricated by plasma spraying. Tribology International, 2015, 81, 97-104.	5.9	18
43	Structure and properties of nanostructured ceramic matrix composite coatings prepared in-situ by reactive plasma spraying micro-sized Alâ€"Fe2O3â€"Cr2O3 powders. Ceramics International, 2014, 40, 6481-6486.	4.8	9
44	The effect of metallic bonding layer on the corrosion behavior ofÂplasma sprayed Al2O3 ceramic coatings in simulated seawater. Vacuum, 2014, 101, 6-9.	3.5	18
45	Effects of Plasma-spraying Powers on Microstructure and Microhardness of In-Situ Nanostructured FeAl2O4 Composite Coatings. Journal of Thermal Spray Technology, 2013, 22, 1002-1006.	3.1	4
46	Preparing of nanostructured Al2O3â€"TiO2â€"ZrO2 composite powders and plasma spraying nanostructured composite coating. Vacuum, 2013, 96, 39-45.	3.5	32
47	Effect of metal oxide additives on the microstructure and properties of the FeAl2O4 matrix composite coatings prepared by plasma spraying. Surface and Coatings Technology, 2013, 235, 417-423.	4.8	14
48	The effect of modified epoxy sealing on the electrochemical corrosion behaviour of reactive plasma-sprayed TiN coatings. Corrosion Science, 2013, 75, 220-227.	6.6	42
49	Phase evolution of plasma sprayed Al2O3â^'13%TiO2 coatings derived from nanocrystalline powders. Transactions of Nonferrous Metals Society of China, 2013, 23, 2951-2956.	4.2	10
50	Corrosion behavior of plasma sprayed ceramic and metallic coatings on carbon steel in simulated seawater. Materials & Design, 2013, 52, 630-637.	5.1	50
51	Effect of Microstructure of Composite Powders on Microstructure and Properties of Microwave Sintered Alumina Matrix Ceramics. Journal of Materials Science and Technology, 2013, 29, 429-433.	10.7	21
52	Influence of oxides addition on the reaction of Fe2O3â€"Al composite powders in plasma flame. Journal of Alloys and Compounds, 2013, 579, 1-6.	5.5	12
53	Formation of nanocrystalline FeAl₂O₄ matrix coating by plasma spraying. Surface Engineering, 2012, 28, 333-337.	2.2	5
54	Phase transitions of plasma sprayed Feâ€"Al intermetallic coating during corrosion in molten zinc at 640ÂÂ°C. Intermetallics, 2012, 22, 160-165.	3.9	13

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55	Aluminaâ€“titania ceramics prepared by microwave sintering and conventional pressure-less sintering. Journal of Alloys and Compounds, 2012, 525, 63-67.	5.5	29
56	Reaction products and their solidification process of the plasma sprayed Fe2O3â€“Al composite powders. Materials Chemistry and Physics, 2012, 133, 190-196.	4.0	10
57	Preparation of nanostructured aluminaâ€“titania composite powders by spray drying, heat treatment and plasma treatment. Powder Technology, 2012, 219, 257-263.	4.2	40
58	In situ nanostructured ceramic matrix composite coating prepared by reactive plasma spraying micro-sized Alâ€“Fe2O3 composite powders. Journal of Alloys and Compounds, 2011, 509, L90-L94.	5.5	54
59	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
60	Microstructure Characterization of the FeAl2O4-Based Nanostructured Composite Coating Synthesized by Plasma Spraying Fe2O3/Al Powders. Journal of Thermal Spray Technology, 2011, 20, 1269-1277.	3.1	12
61	Study of Reactive Plasma Sprayed TiN Electrocatalytic Carrier Coatings. Applied Mechanics and Materials, 2011, 130-134, 950-954.	0.2	0
62	Bimodal Distribution of Microstructure and Mechanical Properties of Plasma Sprayed Nanostructured Al₂O₃-13wt% TiO_B2 Coatings. Wuji Cailiao Xuebao/Journal of Inorganic Materials, 2011, 26, 1003-1008.	1.3	1
63	Nanostructured Al2O3â€“TiO2 coatings for high-temperature protection of titanium alloy during ablation. Materials Characterization, 2010, 61, 796-801.	4.4	8
64	Electrochemical corrosion behavior of plasma sprayed Al₂O₃â€“13%TiO₂ coatings in aqueous hydrochloric acid solution. Materials and Corrosion - Werkstoffe Und Korrosion, 2010, 61, 611-617.	1.5	5
65	Three body abrasive wear characteristics of plasma sprayed conventional and nanostructured Al2O3-13%TiO2 coatings. Tribology International, 2010, 43, 876-881.	5.9	37
66	Ultrafine grained bulk ceramic composites consolidated from nanostructured composite powders by pressure less sintering. Powder Metallurgy, 2010, 53, 336-339.	1.7	1
67	First-principles study of NiAl microalloyed with Sc, Y, La and Nd. Computational Materials Science, 2010, 50, 545-549.	3.0	26
68	Preparation and Characterization of Rare Earth Modified Nanocrystalline Al₂O₃/13 wt%TiO₂ Feedstock for Plasma Spraying. Journal of Nanoscience and Nanotechnology, 2009, 9, 1445-1448.	0.9	7
69	In situ porous alumina/aluminum titanate ceramic composite prepared by spark plasma sintering from nanostructured powders. Scripta Materialia, 2009, 60, 578-581.	5.2	49
70	Sliding wear and electrochemical corrosion behavior of plasma sprayed nanocomposite Al2O3â€“13%TiO2 coatings. Materials Chemistry and Physics, 2009, 118, 37-45.	4.0	56
71	Toughening and strengthening mechanism of plasma sprayed nanostructured Al2O3â€“13wt.%TiO2 coatings. Surface and Coatings Technology, 2009, 204, 642-649.	4.8	44
72	Laser surface remelting of plasma sprayed nanostructured Al2O3â€“13wt%TiO2 coatings on titanium alloy. Applied Surface Science, 2009, 255, 8603-8610.	6.1	73

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73	Reinforcing and toughening alumina/titania ceramic composites with nano-dopants from nanostructured composite powders. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2009, 508, 161-166.	5.6	39
74	Sliding wear behaviors of in situ alumina/aluminum titanate ceramic composites. Wear, 2009, 266, 1051-1057.	3.1	18
75	Investigation of stress field and failure mode of plasma sprayed Al2O3â€“13%TiO2 coatings under thermal shock. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2009, 516, 103-110.	5.6	23
76	Microstructure, spallation and corrosion of plasma sprayed Al2O3â€“13%TiO2 coatings. Corrosion Science, 2009, 51, 2924-2931.	6.6	87
77	In situ alumina/aluminum titanate bulk ceramic composites prepared by SPS from different structured composite powders. Journal of Alloys and Compounds, 2009, 481, 858-862.	5.5	32
78	Fretting wear behavior of conventional and nanostructured Al2O3â€“13wt%TiO2 coatings fabricated by plasma spray. Wear, 2008, 265, 1700-1707.	3.1	27
79	Preparation and sintering behaviour of nanostructured alumina/titania composite powders modified with nano-dopants. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 490, 457-464.	5.6	21
80	The effects of ceria on the mechanical properties and thermal shock resistance of thermal sprayed NiAl intermetallic coatings. Intermetallics, 2008, 16, 682-688.	3.9	43
81	Thermal shock behavior of nanostructured and conventional Al2O3/13Âwt%TiO2 coatings fabricated by plasma spraying. Surface and Coatings Technology, 2007, 201, 7746-7754.	4.8	90
82	Microstructures, hardness and erosion behavior of thermal sprayed and heat treated NiAl coatings with different ceria. Wear, 2007, 263, 371-378.	3.1	31