Huijun Yu

List of Publications by Year
in descending order

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55 papers	2,664 citations	331670 21 h-index	182427 51 g-index
55 all docs	55 docs citations	55 times ranked	2194 citing authors

#	Article	IF	Citations
1	Microstructure and mechanical behavior of the laser synthesized composites modified by micro/nano scale rare earth oxides. Journal of Alloys and Compounds, 2022, 895, 162641.	5.5	6
2	In situ formed TiB2/TiC complex structure in laser-alloyed coatings with improved wear property. Ceramics International, 2022, 48, 7056-7062.	4.8	13
3	Research status of laser cladding material system on titanium alloy. Journal of Physics: Conference Series, 2022, 2256, 012021.	0.4	0
4	Ag-containing antibacterial self-healing micro-arc oxidation coatings on Mgâ€“Znâ€“Sr alloys. Surface Engineering, 2021, 37, 926-941.	2.2	19
5	Bioactive MAO/CS composite coatings on Mg-Zn-Ca alloy for orthopedic applications. Progress in Organic Coatings, 2021, 152, 106112.	3.9	13
6	Laser alloying with Feâ€“B₄Câ€“Ti on AA6061 for improved wear resistance. Surface Engineering, 2021, 37, 1503-1513.	2.2	3
7	In-situ TiB2-TiC reinforced Fe-Al composite coating on 6061 aluminum alloy by laser surface modification. Journal of Materials Processing Technology, 2021, 294, 117107.	6.3	24
8	Enhanced corrosion resistance of magnesium alloy by plasma electrolytic oxidation plus hydrothermal treatment. Surface and Coatings Technology, 2021, 424, 127662.	4.8	22
9	Research status of laser additive manufacturing for metal: a review. Journal of Materials Research and Technology, 2021, 15, 855-884.	5.8	110
10	Laser Cladding Induced Spherical Graphitic Phases by Super-Assembly of Graphene-Like Microstructures and the Antifriction Behavior. ACS Central Science, 2021, 7, 318-326.	11.3	8
11	Layer by layer assembled chitosan (TiO2)-heparin composite coatings on MAO-coated Mg alloys. Materials Letters, 2020, 281, 128640.	2.6	11
12	The Reliability Design of Switch Chip Based on THENA Process Stimulation System. Journal of Physics: Conference Series, 2020, 1650, 032107.	0.4	0
13	Influence of temperature on the soldering process of CLCC-3 package components using AuSn20 solder. AIP Advances, 2020, 10, 055105.	1.3	0
14	Improving the corrosion resistance of micro-arc oxidation coated Mgâ€“Znâ€“Ca alloy. RSC Advances, 2020, 10, 8244-8254.	3.6	14
15	WEAR PROPERTIES AND CHARACTERIZATION OF LASER-DEPOSITED NI-BASE COMPOSITES ON 304 STAINLESS STEEL. Surface Review and Letters, 2020, 27, 1950219.	1.1	1
16	Preparation and microstructure of MAO/CS composite coatings on Mg alloy. Materials Letters, 2020, 271, 127729.	2.6	19
17	Controlled sulfidation towards achieving core-shell 1D-NiMoO4 @ 2D-NiMoS4 architecture for high-performance asymmetric supercapacitor. Journal of Alloys and Compounds, 2019, 804, 27-34.	5.5	39
18	Grapheneâ€“sulfurâ€“Ni(OH)2 sandwich foam composites as free-standing cathodes for high-performance Liâ€“S batteries. International Journal of Hydrogen Energy, 2019, 44, 30478-30485.	7.1	20

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19	Mixed-valent MnSiO3/C nanocomposite for high-performance asymmetric supercapacitor. Journal of Colloid and Interface Science, 2019, 556, 239-248.	9.4	21
20	Preparation and characterization of composite coating on Mg-1.74Zn-0.55Ca alloy by micro-arc oxidation combined with sol-gel method. Materials Letters, 2019, 255, 126578.	2.6	21
21	Degradable magnesium-based alloys for biomedical applications: The role of critical alloying elements. Journal of Biomaterials Applications, 2019, 33, 1348-1372.	2.4	61
22	Corrosion behaviour of micro-arc oxidation coatings on Mgâ€“2Sr prepared in poly(ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 622	3.6	5
23	Biological properties of calcium phosphate biomaterials for bone repair: a review. RSC Advances, 2018, 8, 2015-2033.	3.6	134
24	Chitosan composite scaffolds for articular cartilage defect repair: a review. RSC Advances, 2018, 8, 3736-3749.	3.6	62
25	Microstructure and high-temperature oxidation resistance of Ti-Al-Nb coatings on a Ti-6Al-4V alloy fabricated by laser surface alloying. Surface and Coatings Technology, 2018, 344, 479-488.	4.8	53
26	Laser surface alloying on aluminum and its alloys: A review. Optics and Lasers in Engineering, 2018, 100, 23-37.	3.8	125
27	Effect of the second-step voltages on the structural and corrosion properties of siliconâ€“calciumâ€“phosphate (Siâ€“CaP) coatings on Mgâ€“Znâ€“Ca alloy. Royal Society Open Science, 2018, 5, 172410.	2.4	14
28	Influence of silicon on growth mechanism of micro-arc oxidation coating on cast Alâ€“Si alloy. Royal Society Open Science, 2018, 5, 172428.	2.4	18
29	Microstructure and wear resistance of composite coating by laser cladding Ni60A/B4C pre-placed powders on Ti-6Al-4V substrate. Science and Engineering of Composite Materials, 2017, 24, 541-546.	1.4	10
30	Microstructure and wear property of the Ti 5 Si 3 /TiC reinforced Co-based coatings fabricated by laser cladding on Ti-6Al-4V. Optics and Laser Technology, 2017, 92, 156-162.	4.6	89
31	Research and development status of laser cladding on magnesium alloys: A review. Optics and Lasers in Engineering, 2017, 93, 195-210.	3.8	215
32	Research status of magnesium alloys by micro-arc oxidation: a review. Surface Engineering, 2017, 33, 731-738.	2.2	70
33	Microstructure and properties of Ti-Al coating and Ti-Al-Si system coatings on Ti-6Al-4V fabricated by laser surface alloying. Surface and Coatings Technology, 2017, 309, 805-813.	4.8	68
34	Effect of process parameters on the microstructure evolution and wear property of the laser cladding coatings on Ti-6Al-4V alloy. Journal of Alloys and Compounds, 2017, 692, 989-996.	5.5	131
35	MECHANICAL PROPERTIES AND HIGH TEMPERATURE OXIDATION BEHAVIOR OF Tiâ€“Al COATING REINFORCED BY NITRIDES ON Tiâ€“6Alâ€“4V ALLOY. Surface Review and Letters, 2016, 23, 1650031.	1.1	2
36	Microstructure and property of composite coatings on titanium alloy deposited by laser cladding with Co42+TiN mixed powders. Journal of Alloys and Compounds, 2016, 686, 74-81.	5.5	57

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37	Formation of calcium phosphate coating on Mg-Zn-Ca alloy by micro-arc oxidation technique. Materials Letters, 2016, 164, 575-578.	2.6	20
38	Fabrication of Co-Based Coatings on Titanium Alloy by Laser Cladding with CeO₂ Addition. Materials and Manufacturing Processes, 2016, 31, 1461-1467.	4.7	30
39	Preparation of Si-containing oxide coating and biomimetic apatite induction on magnesium alloy. Applied Surface Science, 2016, 388, 148-154.	6.1	15
40	Effect of Na2WO4 on Growth Process and Corrosion Resistance of Micro-arc Oxidation Coatings on 2A12 Aluminum Alloys in CH3COONa Electrolyte. Journal of Materials Engineering and Performance, 2016, 25, 297-303.	2.5	13
41	Structure and in vitro bioactivity of ceramic coatings on magnesium alloys by microarc oxidation. Applied Surface Science, 2016, 388, 114-119.	6.1	39
42	High-temperature oxidation behavior of Ni-based superalloys with Nb and Y and the interface characteristics of oxidation scales. Surface and Interface Analysis, 2015, 47, 362-370.	1.8	33
43	Review of the biocompatibility of micro-arc oxidation coated titanium alloys. Materials and Design, 2015, 85, 640-652.	7.0	271
44	Influence of Nb and Y on Hot Corrosion Behavior of Niâ€“Cr-based Superalloys. Materials and Manufacturing Processes, 2015, 30, 677-684.	4.7	15
45	Microstructures and wear properties of laser cladding Co-based composite coatings on Tiâ€“6Alâ€“4V. Materials & Design, 2015, 80, 174-181.	5.1	114
46	Microstructures and properties of TiN reinforced Co-based composite coatings modified with Y2O3 by laser cladding on Tiâ€“6Alâ€“4V alloy. Journal of Alloys and Compounds, 2015, 650, 178-184.	5.5	98
47	Fabrication of Ni-Based Superalloys Containing Nb and Their High Temperature Oxidation Behaviors. Materials and Manufacturing Processes, 2015, 30, 1364-1369.	4.7	16
48	Effect of current density on the microstructure and corrosion resistance of microarc oxidized ZK60 magnesium alloy. Biointerphases, 2014, 9, 031009.	1.6	7
49	The influence of Nb on hot corrosion behavior of Ni-based superalloy at 800 Â°C in a mixture of Na₂SO₄â€“NaCl. Journal of Materials Research, 2014, 29, 2596-2603.	2.6	17
50	Research status of laser cladding on titanium and its alloys: A review. Materials & Design, 2014, 58, 412-425.	5.1	451
51	Influence of Al2O3â€“Y2O3 and Ceâ€“Alâ€“Ni amorphous alloy on physical properties of laser synthetic composite coatings on titanium alloys. Surface and Coatings Technology, 2014, 247, 55-60.	4.8	13
52	Physical Properties and Formation Mechanism of Copper/Glass Modified Laser Nanocrystals-Amorphous Reinforced Coatings. Journal of Physical Chemistry C, 2013, 117, 4568-4573.	3.1	19
53	Microstructure characteristics of laser alloying composite coatings in nitrogen protective atmosphere. Science and Engineering of Composite Materials, 2013, .	1.4	1
54	MICRO-STRUCTURES OF HARD COATINGS DEPOSITED ON TITANIUM ALLOYS BY LASER ALLOYING TECHNIQUE. Surface Review and Letters, 2013, 20, 1350007.	1.1	6

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55	DEVELOPMENT OF LASER CLADDING WEAR-RESISTANT COATING ON TITANIUM ALLOYS. Surface Review and Letters, 2006, 13, 645-654.	1.1	8