

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	Research status of laser cladding on titanium and its alloys: A review. <i>Materials & Design</i> , 2014, 58, 412-425.	5.1	451
2	Review of the biocompatibility of micro-arc oxidation coated titanium alloys. <i>Materials and Design</i> , 2015, 85, 640-652.	7.0	271
3	Research and development status of laser cladding on magnesium alloys: A review. <i>Optics and Lasers in Engineering</i> , 2017, 93, 195-210.	3.8	215
4	Biological properties of calcium phosphate biomaterials for bone repair: a review. <i>RSC Advances</i> , 2018, 8, 2015-2033.	3.6	134
5	Effect of process parameters on the microstructure evolution and wear property of the laser cladding coatings on Ti-6Al-4V alloy. <i>Journal of Alloys and Compounds</i> , 2017, 692, 989-996.	5.5	131
6	Laser surface alloying on aluminum and its alloys: A review. <i>Optics and Lasers in Engineering</i> , 2018, 100, 23-37.	3.8	125
7	Microstructures and wear properties of laser cladding Co-based composite coatings on Ti-6Al-4V. <i>Materials & Design</i> , 2015, 80, 174-181.	5.1	114
8	Research status of laser additive manufacturing for metal: a review. <i>Journal of Materials Research and Technology</i> , 2021, 15, 855-884.	5.8	110
9	Microstructures and properties of TiN reinforced Co-based composite coatings modified with Y ₂ O ₃ by laser cladding on Ti-6Al-4V alloy. <i>Journal of Alloys and Compounds</i> , 2015, 650, 178-184.	5.5	98
10	Microstructure and wear property of the Ti-5Si ₃ /TiC reinforced Co-based coatings fabricated by laser cladding on Ti-6Al-4V. <i>Optics and Laser Technology</i> , 2017, 92, 156-162.	4.6	89
11	Research status of magnesium alloys by micro-arc oxidation: a review. <i>Surface Engineering</i> , 2017, 33, 731-738.	2.2	70
12	Microstructure and properties of Ti-Al coating and Ti-Al-Si system coatings on Ti-6Al-4V fabricated by laser surface alloying. <i>Surface and Coatings Technology</i> , 2017, 309, 805-813.	4.8	68
13	Chitosan composite scaffolds for articular cartilage defect repair: a review. <i>RSC Advances</i> , 2018, 8, 3736-3749.	3.6	62
14	Degradable magnesium-based alloys for biomedical applications: The role of critical alloying elements. <i>Journal of Biomaterials Applications</i> , 2019, 33, 1348-1372.	2.4	61
15	Microstructure and property of composite coatings on titanium alloy deposited by laser cladding with Co ₄₂ +TiN mixed powders. <i>Journal of Alloys and Compounds</i> , 2016, 686, 74-81.	5.5	57
16	Microstructure and high-temperature oxidation resistance of Ti-Al-Nb coatings on a Ti-6Al-4V alloy fabricated by laser surface alloying. <i>Surface and Coatings Technology</i> , 2018, 344, 479-488.	4.8	53
17	Structure and in vitro bioactivity of ceramic coatings on magnesium alloys by microarc oxidation. <i>Applied Surface Science</i> , 2016, 388, 114-119.	6.1	39
18	Controlled sulfidation towards achieving core-shell 1D-NiMoO ₄ @ 2D-NiMoS ₄ architecture for high-performance asymmetric supercapacitor. <i>Journal of Alloys and Compounds</i> , 2019, 804, 27-34.	5.5	39

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19	High-temperature oxidation behavior of Ni-based superalloys with Nb and Y and the interface characteristics of oxidation scales. <i>Surface and Interface Analysis</i> , 2015, 47, 362-370.	1.8	33
20	Fabrication of Co-Based Coatings on Titanium Alloy by Laser Cladding with CeO ₂ Addition. <i>Materials and Manufacturing Processes</i> , 2016, 31, 1461-1467.	4.7	30
21	In-situ TiB ₂ -TiC reinforced Fe-Al composite coating on 6061 aluminum alloy by laser surface modification. <i>Journal of Materials Processing Technology</i> , 2021, 294, 117107.	6.3	24
22	Enhanced corrosion resistance of magnesium alloy by plasma electrolytic oxidation plus hydrothermal treatment. <i>Surface and Coatings Technology</i> , 2021, 424, 127662.	4.8	22
23	Mixed-valent MnSiO ₃ /C nanocomposite for high-performance asymmetric supercapacitor. <i>Journal of Colloid and Interface Science</i> , 2019, 556, 239-248.	9.4	21
24	Preparation and characterization of composite coating on Mg-1.74Zn-0.55Ca alloy by micro-arc oxidation combined with sol-gel method. <i>Materials Letters</i> , 2019, 255, 126578.	2.6	21
25	Formation of calcium phosphate coating on Mg-Zn-Ca alloy by micro-arc oxidation technique. <i>Materials Letters</i> , 2016, 164, 575-578.	2.6	20
26	Graphene-sulfur-Ni(OH) ₂ sandwich foam composites as free-standing cathodes for high-performance Li-S batteries. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 30478-30485.	7.1	20
27	Physical Properties and Formation Mechanism of Copper/Glass Modified Laser Nanocrystals-Amorphous Reinforced Coatings. <i>Journal of Physical Chemistry C</i> , 2013, 117, 4568-4573.	3.1	19
28	Preparation and microstructure of MAO/CS composite coatings on Mg alloy. <i>Materials Letters</i> , 2020, 271, 127729.	2.6	19
29	Ag-containing antibacterial self-healing micro-arc oxidation coatings on Mg-Zn-Sr alloys. <i>Surface Engineering</i> , 2021, 37, 926-941.	2.2	19
30	Influence of silicon on growth mechanism of micro-arc oxidation coating on cast Al-Si alloy. <i>Royal Society Open Science</i> , 2018, 5, 172428.	2.4	18
31	The influence of Nb on hot corrosion behavior of Ni-based superalloy at 800 °C in a mixture of Na ₂ SO ₄ -NaCl. <i>Journal of Materials Research</i> , 2014, 29, 2596-2603.	2.6	17
32	Fabrication of Ni-Based Superalloys Containing Nb and Their High Temperature Oxidation Behaviors. <i>Materials and Manufacturing Processes</i> , 2015, 30, 1364-1369.	4.7	16
33	Influence of Nb and Y on Hot Corrosion Behavior of Ni-Cr-based Superalloys. <i>Materials and Manufacturing Processes</i> , 2015, 30, 677-684.	4.7	15
34	Preparation of Si-containing oxide coating and biomimetic apatite induction on magnesium alloy. <i>Applied Surface Science</i> , 2016, 388, 148-154.	6.1	15
35	Effect of the second-step voltages on the structural and corrosion properties of silicon-calcium-phosphate (Si-CaP) coatings on Mg-Zn-Ca alloy. <i>Royal Society Open Science</i> , 2018, 5, 172410.	5.4	14
36	Improving the corrosion resistance of micro-arc oxidation coated Mg-Zn-Ca alloy. <i>RSC Advances</i> , 2020, 10, 8244-8254.	3.6	14

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37	Influence of Al ₂ O ₃ -Y ₂ O ₃ and Ce-Al-Ni amorphous alloy on physical properties of laser synthetic composite coatings on titanium alloys. <i>Surface and Coatings Technology</i> , 2014, 247, 55-60.	4.8	13
38	Effect of Na ₂ WO ₄ on Growth Process and Corrosion Resistance of Micro-arc Oxidation Coatings on 2A12 Aluminum Alloys in CH ₃ COONa Electrolyte. <i>Journal of Materials Engineering and Performance</i> , 2016, 25, 297-303.	2.5	13
39	Bioactive MAO/CS composite coatings on Mg-Zn-Ca alloy for orthopedic applications. <i>Progress in Organic Coatings</i> , 2021, 152, 106112.	3.9	13
40	In situ formed TiB ₂ /TiC complex structure in laser-alloyed coatings with improved wear property. <i>Ceramics International</i> , 2022, 48, 7056-7062.	4.8	13
41	Layer by layer assembled chitosan (TiO ₂)-heparin composite coatings on MAO-coated Mg alloys. <i>Materials Letters</i> , 2020, 281, 128640.	2.6	11
42	Microstructure and wear resistance of composite coating by laser cladding Ni60A/B4C pre-placed powders on Ti-6Al-4V substrate. <i>Science and Engineering of Composite Materials</i> , 2017, 24, 541-546.	1.4	10
43	DEVELOPMENT OF LASER CLADDING WEAR-RESISTANT COATING ON TITANIUM ALLOYS. <i>Surface Review and Letters</i> , 2006, 13, 645-654.	1.1	8
44	Laser Cladding Induced Spherical Graphitic Phases by Super-Assembly of Graphene-Like Microstructures and the Antifriction Behavior. <i>ACS Central Science</i> , 2021, 7, 318-326.	11.3	8
45	Effect of current density on the microstructure and corrosion resistance of microarc oxidized ZK60 magnesium alloy. <i>Biointerphases</i> , 2014, 9, 031009.	1.6	7
46	MICRO-STRUCTURES OF HARD COATINGS DEPOSITED ON TITANIUM ALLOYS BY LASER ALLOYING TECHNIQUE. <i>Surface Review and Letters</i> , 2013, 20, 1350007.	1.1	6
47	Microstructure and mechanical behavior of the laser synthesized composites modified by micro/nano scale rare earth oxides. <i>Journal of Alloys and Compounds</i> , 2022, 895, 162641.	5.5	6
48	Corrosion behaviour of micro-arc oxidation coatings on Mg-2Sr prepared in poly(ethylene Terephthalate) overlock. <i>Journal of Materials Engineering and Performance</i> , 2015, 24, 50302.	3.6	5
49	Laser alloying with Fe-B ₄ -Ti on AA6061 for improved wear resistance. <i>Surface Engineering</i> , 2021, 37, 1503-1513.	2.2	3
50	MECHANICAL PROPERTIES AND HIGH TEMPERATURE OXIDATION BEHAVIOR OF Ti-Al COATING REINFORCED BY NITRIDES ON Ti-6Al-4V ALLOY. <i>Surface Review and Letters</i> , 2016, 23, 1650031.	1.1	2
51	Microstructure characteristics of laser alloying composite coatings in nitrogen protective atmosphere. <i>Science and Engineering of Composite Materials</i> , 2013, .	1.4	1
52	WEAR PROPERTIES AND CHARACTERIZATION OF LASER-DEPOSITED NI-BASE COMPOSITES ON 304 STAINLESS STEEL. <i>Surface Review and Letters</i> , 2020, 27, 1950219.	1.1	1
53	The Reliability Design of Switch Chip Based on THENA Process Stimulation System. <i>Journal of Physics: Conference Series</i> , 2020, 1650, 032107.	0.4	0
54	Influence of temperature on the soldering process of CLCC-3 package components using AuSn20 solder. <i>AIP Advances</i> , 2020, 10, 055105.	1.3	0

#	ARTICLE	IF	CITATIONS
55	Research status of laser cladding material system on titanium alloy. Journal of Physics: Conference Series, 2022, 2256, 012021.	0.4	0