

# Chaoyue Chen

## List of Publications by Year in descending order

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88  
papers

2,667  
citations

186265

28  
h-index

214800

47  
g-index

89  
all docs

89  
docs citations

89  
times ranked

2175  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of heat treatment on the phase transformation and mechanical properties of Ti6Al4V fabricated by selective laser melting. <i>Journal of Alloys and Compounds</i> , 2018, 764, 1056-1071.	5.5	219
2	Microstructure and wear behavior of in-situ hypereutectic Al–high Si alloys produced by selective laser melting. <i>Materials and Design</i> , 2016, 99, 120-126.	7.0	114
3	Mechanical and in-vitro study of an isotropic Ti6Al4V lattice structure fabricated using selective laser melting. <i>Journal of Alloys and Compounds</i> , 2019, 782, 209-223.	5.5	112
4	Effect of scanning speed on the microstructure and mechanical behavior of 316L stainless steel fabricated by selective laser melting. <i>Materials and Design</i> , 2020, 186, 108355.	7.0	99
5	The influence of aging temperature and aging time on the mechanical and tribological properties of selective laser melted maraging 18Ni-300 steel. <i>Additive Manufacturing</i> , 2018, 22, 592-600.	3.0	98
6	New insights into the coating/substrate interfacial bonding mechanism in cold spray. <i>Scripta Materialia</i> , 2016, 125, 1-4.	5.2	90
7	Study of pore defect and mechanical properties in selective laser melted Ti6Al4V alloy based on X-ray computed tomography. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 797, 139981.	5.6	87
8	Effect of hot isostatic pressing (HIP) on microstructure and mechanical properties of Ti6Al4V alloy fabricated by cold spray additive manufacturing. <i>Additive Manufacturing</i> , 2019, 27, 595-605.	3.0	82
9	Hybrid additive manufacturing of Al-Ti6Al4V functionally graded materials with selective laser melting and cold spraying. <i>Journal of Materials Processing Technology</i> , 2018, 255, 650-655.	6.3	78
10	Microstructural and mechanical properties of high-performance Inconel 718 alloy by cold spraying. <i>Journal of Alloys and Compounds</i> , 2019, 792, 456-467.	5.5	75
11	Radiomics-Based Machine Learning in Differentiation Between Glioblastoma and Metastatic Brain Tumors. <i>Frontiers in Oncology</i> , 2019, 9, 806.	2.8	69
12	The Diagnostic Value of Radiomics-Based Machine Learning in Predicting the Grade of Meningiomas Using Conventional Magnetic Resonance Imaging: A Preliminary Study. <i>Frontiers in Oncology</i> , 2019, 9, 1338.	2.8	64
13	Fatigue strength improvement of selective laser melted Ti6Al4V using ultrasonic surface mechanical attrition. <i>Materials Research Letters</i> , 2019, 7, 327-333.	8.7	60
14	Metallization of polyether ether ketone (PEEK) by copper coating via cold spray. <i>Surface and Coatings Technology</i> , 2018, 342, 209-219.	4.8	59
15	Additive manufacturing of WC reinforced maraging steel 300 composites by cold spraying and selective laser melting. <i>Surface and Coatings Technology</i> , 2019, 371, 161-171.	4.8	58
16	Study of the microstructure and mechanical performance of C-X stainless steel processed by selective laser melting (SLM). <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 781, 139227.	5.6	57
17	On the role of oxide film's cleaning effect into the metallurgical bonding during cold spray. <i>Materials Letters</i> , 2018, 210, 199-202.	2.6	53
18	Al matrix composites fabricated by solid-state cold spray deposition: A critical review. <i>Journal of Materials Science and Technology</i> , 2021, 86, 20-55.	10.7	48

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19	Evaluation of the interfacial bonding between particles and substrate in angular cold spray. <i>Materials Letters</i> , 2016, 173, 76-79.	2.6	45
20	A novel spiral trajectory for damage component recovery with cold spray. <i>Surface and Coatings Technology</i> , 2017, 309, 719-728.	4.8	44
21	Selective laser melting of WC reinforced maraging steel 300: Microstructure characterization and tribological performance. <i>Surface and Coatings Technology</i> , 2019, 371, 355-365.	4.8	44
22	Achieving simultaneously improved tensile strength and ductility of a nano-TiB <sub>2</sub> /AlSi10Mg composite produced by cold spray additive manufacturing. <i>Composites Part B: Engineering</i> , 2020, 202, 108404.	12.0	44
23	Hybrid additive manufacture of 316L stainless steel with cold spray and selective laser melting: Microstructure and mechanical properties. <i>Journal of Materials Processing Technology</i> , 2019, 273, 116248.	6.3	39
24	Cold spray additive manufacturing of Invar 36 alloy: microstructure, thermal expansion and mechanical properties. <i>Journal of Materials Science and Technology</i> , 2021, 72, 39-51.	10.7	37
25	Recent incidence trend of elderly patients with glioblastoma in the United States, 2000–2017. <i>BMC Cancer</i> , 2021, 21, 54.	2.6	36
26	Cold spray additive manufacturing of metal matrix composites (MMCs) using a novel nano-TiB <sub>2</sub> -reinforced 7075Al powder. <i>Journal of Alloys and Compounds</i> , 2020, 819, 152962.	5.5	34
27	Metallurgical bonding between metal matrix and core-shelled reinforcements in cold sprayed composite coating. <i>Scripta Materialia</i> , 2020, 177, 49-53.	5.2	33
28	Crystallographic orientation and spatially resolved damage in a dispersion-hardened Al alloy. <i>Acta Materialia</i> , 2020, 193, 138-150.	7.9	33
29	Strengthened Peening Effect on Metallurgical Bonding Formation in Cold Spray Additive Manufacturing. <i>Journal of Thermal Spray Technology</i> , 2019, 28, 769-779.	3.1	32
30	A new approach to simulate coating thickness in cold spray. <i>Surface and Coatings Technology</i> , 2020, 382, 125151.	4.8	32
31	Microstructure evolution and mechanical properties of maraging steel 300 fabricated by cold spraying. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 743, 482-493.	5.6	29
32	Radiomics-Based Machine Learning Technology Enables Better Differentiation Between Glioblastoma and Anaplastic Oligodendroglioma. <i>Frontiers in Oncology</i> , 2019, 9, 1164.	2.8	27
33	Comparison of Radiomics-Based Machine-Learning Classifiers in Diagnosis of Glioblastoma From Primary Central Nervous System Lymphoma. <i>Frontiers in Oncology</i> , 2020, 10, 1151.	2.8	27
34	Effect of substrate cooling on the epitaxial growth of Ni-based single-crystal superalloy fabricated by direct energy deposition. <i>Journal of Materials Science and Technology</i> , 2021, 62, 148-161.	10.7	26
35	Numerical investigation of transient coating build-up and heat transfer in cold spray. <i>Surface and Coatings Technology</i> , 2017, 326, 355-365.	4.8	24
36	Cold spraying of thermally softened Ni-coated FeSiAl composite powder: Microstructure characterization, tribological performance and magnetic property. <i>Materials and Design</i> , 2018, 160, 270-283.	7.0	24

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37	A novel approach for fabricating Ni-coated FeSiAl soft magnetic composite via cold spraying. <i>Journal of Alloys and Compounds</i> , 2018, 749, 523-533.	5.5	23
38	Cold-Sprayed Metal Coatings with Nanostructure. <i>Advances in Materials Science and Engineering</i> , 2018, 2018, 1-19.	1.8	23
39	Glioblastoma and Anaplastic Astrocytoma: Differentiation Using MRI Texture Analysis. <i>Frontiers in Oncology</i> , 2019, 9, 876.	2.8	23
40	Cold sprayed WC reinforced maraging steel 300 composites: Microstructure characterization and mechanical properties. <i>Journal of Alloys and Compounds</i> , 2019, 785, 499-511.	5.5	23
41	Machine-Learning Classifiers in Discrimination of Lesions Located in the Anterior Skull Base. <i>Frontiers in Oncology</i> , 2020, 10, 752.	2.8	22
42	Influence of annealing treatment on microstructure and magnetic properties of cold sprayed Ni-coated FeSiAl soft magnetic composite coating. <i>Surface and Coatings Technology</i> , 2019, 374, 476-484.	4.8	20
43	Corrosion behavior of cold sprayed 7075Al composite coating reinforced with TiB <sub>2</sub> nanoparticles. <i>Surface and Coatings Technology</i> , 2020, 404, 126460.	4.8	20
44	Prognostic role of neutrophil lymphocyte ratio in patients with glioma. <i>Oncotarget</i> , 2017, 8, 59217-59224.	1.8	20
45	Effect of spray angle on Ni particle deposition behaviour in cold spray. <i>Surface Engineering</i> , 2018, 34, 352-360.	2.2	17
46	Improvement of tribological performance by micro-arc oxidation treatment on selective laser melting Ti6Al4V alloy. <i>Materials Research Express</i> , 2019, 6, 096509.	1.6	17
47	In-situ observation of solid-liquid interface transition during directional solidification of Al-Zn alloy via X-ray imaging. <i>Journal of Materials Science and Technology</i> , 2020, 39, 113-123.	10.7	17
48	Prognostic role of neutrophil lymphocyte ratio in patients with spontaneous intracerebral hemorrhage. <i>Oncotarget</i> , 2017, 8, 77752-77760.	1.8	16
49	The Diagnostic Value of MRI-Based Texture Analysis in Discrimination of Tumors Located in Posterior Fossa: A Preliminary Study. <i>Frontiers in Neuroscience</i> , 2019, 13, 1113.	2.8	15
50	Comparative investigation of microstructure and properties of Ni-coated FeSiAl soft magnetic composite coatings produced by cold spraying and HVOF. <i>Surface and Coatings Technology</i> , 2019, 371, 224-234.	4.8	15
51	Application of Radiomics Analysis Based on CT Combined With Machine Learning in Diagnostic of Pancreatic Neuroendocrine Tumors Patient's Pathological Grades. <i>Frontiers in Oncology</i> , 2020, 10, 521831.	2.8	15
52	Automatic Meningioma Segmentation and Grading Prediction: A Hybrid Deep-Learning Method. <i>Journal of Personalized Medicine</i> , 2021, 11, 786.	2.5	14
53	A novel approach for fabricating a CNT/AlSi composite with the self-aligned nacre-like architecture by cold spraying. <i>Nano Materials Science</i> , 2019, 1, 137-141.	8.8	13
54	Discrimination between pituitary adenoma and craniopharyngioma using MRI-based image features and texture features. <i>Japanese Journal of Radiology</i> , 2020, 38, 1125-1134.	2.4	13

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55	Radiomic Analysis of Craniopharyngioma and Meningioma in the Sellar/Parasellar Area with MR Images Features and Texture Features: A Feasible Study. <i>Contrast Media and Molecular Imaging</i> , 2020, 2020, 1-9.	0.8	13
56	Tribological properties of Al/diamond composites produced by cold spray additive manufacturing. <i>Additive Manufacturing</i> , 2020, 36, 101434.	3.0	12
57	Differentiation of Pituitary Adenoma from Rathke Cleft Cyst: Combining MR Image Features with Texture Features. <i>Contrast Media and Molecular Imaging</i> , 2019, 2019, 1-9.	0.8	11
58	In Situ Electrochemical Activation of a Codoped Heterogeneous System as a Highly Efficient Catalyst for the Oxygen Evolution Reaction in Alkaline Water Electrolysis. <i>ACS Applied Energy Materials</i> , 2019, 2, 8809-8817.	5.1	11
59	Synthesis of carbon nanotube reinforced Al matrix composite coatings via cold spray deposition. <i>Surface and Coatings Technology</i> , 2021, 405, 126676.	4.8	11
60	Contrast-Enhanced MRI Texture Parameters as Potential Prognostic Factors for Primary Central Nervous System Lymphoma Patients Receiving High-Dose Methotrexate-Based Chemotherapy. <i>Contrast Media and Molecular Imaging</i> , 2019, 2019, 1-7.	0.8	10
61	MRI-Based Machine Learning in Differentiation Between Benign and Malignant Breast Lesions. <i>Frontiers in Oncology</i> , 2021, 11, 552634.	2.8	10
62	Insights Into Neuroimaging Findings of Patients With Coronavirus Disease 2019 Presenting With Neurological Manifestations. <i>Frontiers in Neurology</i> , 2020, 11, 593520.	2.4	9
63	Effect of Static Magnetic Field on the Evolution of Residual Stress and Microstructure of Laser Remelted Inconel 718 Superalloy. <i>Journal of Thermal Spray Technology</i> , 2020, 29, 1410-1423.	3.1	9
64	Microstructure and mechanical properties of directionally solidified Al-rich Ni3Al-based alloy under static magnetic field. <i>Journal of Materials Science and Technology</i> , 2022, 110, 117-127.	10.7	9
65	Nozzle Mounting Method Optimization Based on Robot Kinematic Analysis. <i>Journal of Thermal Spray Technology</i> , 2016, 25, 1138-1148.	3.1	8
66	Differentiation between Germinoma and Craniopharyngioma Using Radiomics-Based Machine Learning. <i>Journal of Personalized Medicine</i> , 2022, 12, 45.	2.5	8
67	Effects of substrate heat accumulation on the cold sprayed Ni coating quality: Microstructure evolution and tribological performance. <i>Surface and Coatings Technology</i> , 2019, 371, 185-193.	4.8	7
68	Ability of Radiomics in Differentiation of Anaplastic Oligodendroglioma From Atypical Low-Grade Oligodendroglioma Using Machine-Learning Approach. <i>Frontiers in Oncology</i> , 2019, 9, 1371.	2.8	7
69	Effects of Static Magnetic Field on the Microstructure of Selective Laser Melted Inconel 625 Superalloy: Numerical and Experiment Investigations. <i>Metals</i> , 2021, 11, 1846.	2.3	7
70	Application of Synchrotron X-Ray Imaging and Diffraction in Additive Manufacturing: A Review. <i>Acta Metallurgica Sinica (English Letters)</i> , 2022, 35, 25-48.	2.9	6
71	Feature Pyramid Network With Level-Aware Attention for Meningioma Segmentation. <i>IEEE Transactions on Emerging Topics in Computational Intelligence</i> , 2022, 6, 1201-1210.	4.9	6
72	Revealing the Diversity of Dendritic Morphology Evolution During Solidification of Magnesium Alloys using Synchrotron X-ray Imaging: A Review. <i>Acta Metallurgica Sinica (English Letters)</i> , 2022, 35, 177-200.	2.9	5

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73	Effect of annealing treatment on microstructure and mechanical properties of cold sprayed TiB <sub>2</sub> /AlSi10Mg composites. <i>Surfaces and Interfaces</i> , 2021, 26, 101341.	3.0	5
74	Selective Laser Melting of Carbon-Free Mar-M509 Co-Based Superalloy: Microstructure, Micro-Cracks, and Mechanical Anisotropy. <i>Acta Metallurgica Sinica (English Letters)</i> , 2022, 35, 501-516.	2.9	5
75	Texture Analysis of T1-Weighted Contrast-Enhanced Magnetic Resonance Imaging Potentially Predicts Outcomes of Patients with Non-Wingless-Type/Non-Sonic Hedgehog Medulloblastoma. <i>World Neurosurgery</i> , 2020, 137, e27-e33.	1.3	4
76	Contrast-Enhanced CT Texture Analysis: a New Set of Predictive Factors for Small Cell Lung Cancer. <i>Molecular Imaging and Biology</i> , 2020, 22, 745-751.	2.6	4
77	Differentiation of Low-Grade Astrocytoma From Anaplastic Astrocytoma Using Radiomics-Based Machine Learning Techniques. <i>Frontiers in Oncology</i> , 2021, 11, 521313.	2.8	4
78	A semi-symmetric domain adaptation network based on multi-level adversarial features for meningioma segmentation. <i>Knowledge-Based Systems</i> , 2021, 228, 107245.	7.1	4
79	Using Machine Learning Algorithms to Predict Hospital Acquired Thrombocytopenia after Operation in the Intensive Care Unit: A Retrospective Cohort Study. <i>Diagnostics</i> , 2021, 11, 1614.	2.6	4
80	Machine Learning-Based Radiomics of the Optic Chiasm Predict Visual Outcome Following Pituitary Adenoma Surgery. <i>Journal of Personalized Medicine</i> , 2021, 11, 991.	2.5	4
81	Effects of laser scanning speed and building direction on the microstructure and mechanical properties of selective laser melted Inconel 718 superalloy. <i>Materials Today Communications</i> , 2022, 30, 103095.	1.9	4
82	Numerical Simulation of Bubble Behavior before Inclined Solidified Front. <i>ISIJ International</i> , 2013, 53, 830-837.	1.4	3
83	Nanostructured Metal Coatings via Cold Spray. , 2019, , 27-60.		2
84	Effect of annealing treatment on the microstructure and mechanical properties of Fe-18Mn-0.8C-0.2 V TWIP steel. <i>Materials Research Express</i> , 2019, 6, 1265h4.	1.6	2
85	Association between Domperidone Administered via Feeding Tube and Feeding Success in Critically Ill Patients with Enteral Feeding Intolerance. <i>Journal of Personalized Medicine</i> , 2021, 11, 846.	2.5	2
86	MRI-Based Texture Features as Potential Prognostic Biomarkers in Anaplastic Astrocytoma Patients Undergoing Surgical Treatment. <i>Contrast Media and Molecular Imaging</i> , 2020, 2020, 1-7.	0.8	1
87	Crystallographic Orientation and Spatially Resolved Damage in a Dispersion-Hardened Al Alloy. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
88	The role of chemotherapy in the treatment of adult medulloblastoma. <i>World Neurosurgery</i> , 2022, , .	1.3	0