

Sheng-Guan Qu

List of Publications by Year in descending order

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65
papers

1,570
citations

516561

16
h-index

315616

38
g-index

65
all docs

65
docs citations

65
times ranked

1751
citing authors

#	ARTICLE	IF	CITATIONS
1	New Developments of Ti-Based Alloys for Biomedical Applications. <i>Materials</i> , 2014, 7, 1709-1800.	1.3	756
2	Effect of shot peening on residual stress distribution and tribological behaviors of 17Cr2Ni2MoV Nb steel. <i>Surface and Coatings Technology</i> , 2020, 386, 125497.	2.2	55
3	The influence of ultrasonic surface rolling on the fatigue and wear properties of 23-8N engine valve steel. <i>International Journal of Fatigue</i> , 2019, 125, 299-313.	2.8	54
4	Preparation and mechanical properties of WC-10 Ni3Al cemented carbides with plate-like triangular prismatic WC grains. <i>Journal of Alloys and Compounds</i> , 2012, 544, 134-140.	2.8	39
5	Effect of ultrasonic surface rolling on microstructure and rolling contact fatigue behavior of 17Cr2Ni2MoV Nb steel. <i>Surface and Coatings Technology</i> , 2019, 366, 321-330.	2.2	37
6	Spark-Plasma Sintering of W-5.6Ni-1.4Fe Heavy Alloys: Densification and Grain Growth. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2013, 44, 923-933.	1.1	36
7	The oxidation behavior of the WC-10wt.% Ni3Al composite fabricated by spark plasma sintering. <i>Journal of Alloys and Compounds</i> , 2015, 629, 148-154.	2.8	34
8	Microstructures and rolling contact fatigue behaviors of 17Cr2Ni2MoV Nb steel under combined ultrasonic surface rolling and shot peening. <i>International Journal of Fatigue</i> , 2020, 141, 105867.	2.8	31
9	Effects of a passive upper extremity exoskeleton for overhead tasks. <i>Journal of Electromyography and Kinesiology</i> , 2020, 55, 102478.	0.7	29
10	Effect of Multi-Pass Ultrasonic Surface Rolling on the Mechanical and Fatigue Properties of HIP Ti-6Al-4V Alloy. <i>Materials</i> , 2017, 10, 133.	1.3	25
11	Effects of wearable power assist device on low back fatigue during repetitive lifting tasks. <i>Clinical Biomechanics</i> , 2019, 70, 59-65.	0.5	24
12	Effect of Heating Rate on Densification and Grain Growth During Spark Plasma Sintering of 93W-5.6Ni-1.4Fe Heavy Alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2013, 44, 4323-4336.	1.1	23
13	Rolling contact fatigue properties of ultrasonic surface rolling treated 25CrNi2MoV steel under different lubricant viscosities. <i>International Journal of Fatigue</i> , 2021, 142, 105970.	2.8	22
14	Friction and Wear Behavior of 30CrMnSiA Steel at Elevated Temperatures. <i>Journal of Materials Engineering and Performance</i> , 2016, 25, 1407-1415.	1.2	21
15	Machining performance of a grooved tool in dry machining Ti-6Al-4V. <i>International Journal of Advanced Manufacturing Technology</i> , 2014, 73, 613-622.	1.5	17
16	Effects of cutting parameters on dry cutting of aluminum bronze alloy. <i>International Journal of Advanced Manufacturing Technology</i> , 2014, 70, 669-678.	1.5	16
17	Synergistic effects of a combined surface modification technology on rolling contact fatigue behaviors of 20CrMoH steel under different contact stresses. <i>International Journal of Fatigue</i> , 2021, 153, 106487.	2.8	16
18	Evolution of Fretting Wear Behaviors and Mechanisms of 20CrMnTi Steel after Carburizing. <i>Metals</i> , 2020, 10, 179.	1.0	15

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19	Effects of an industrial passive assistive exoskeleton on muscle activity, oxygen consumption and subjective responses during lifting tasks. PLoS ONE, 2021, 16, e0245629.	1.1	15
20	Bulk TiB ₂ -Based Ceramic Composites with Improved Mechanical Property Using Fe-Ni-Ti-Al as a Sintering Aid. Materials, 2014, 7, 7105-7117.	1.3	14
21	Microstructure and magnetic properties of anisotropic Nd-Fe-B magnets prepared by spark plasma sintering and hot deformation. Transactions of Nonferrous Metals Society of China, 2014, 24, 3142-3151.	1.7	13
22	Machining Performance of TiAlN-Coated Cemented Carbide Tools with Chip Groove in Machining Titanium Alloy Ti-6Al-0.6Cr-0.4Fe-0.4Si-0.01B. Metals, 2018, 8, 850.	1.0	13
23	Research on a gait detection system and recognition algorithm for lower limb exoskeleton robot. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2021, 43, 1.	0.8	13
24	Investigation on the parameters optimization and sliding wear behaviors under starved lubrication of discrete laser surface hardened 25CrNi2MoV steel. Tribology International, 2021, 163, 107176.	3.0	13
25	Effect of Quenching Temperature on Microstructure and Rolling Contact Fatigue Behavior of 17Cr2Ni2MoVNb Steel. Metals, 2018, 8, 735.	1.0	12
26	The wear and fatigue behaviours of hollow head & sodium filled engine valve. Tribology International, 2018, 128, 75-88.	3.0	12
27	M3B ₂ -type borides effect on the wide gap brazing of K417G alloy with mixed powder. Journal of Alloys and Compounds, 2020, 821, 153431.	2.8	12
28	Research on obstacle avoidance algorithm for unmanned ground vehicle based on multi-sensor information fusion. Mathematical Biosciences and Engineering, 2021, 18, 1022-1039.	1.0	12
29	Influence of Effective Laser Energy on the Structure and Mechanical Properties of Laser Melting Deposited Ti6Al4V Alloy. Materials, 2020, 13, 962.	1.3	11
30	High temperature compressive properties and microstructure of WC-Ni3Al cermets prepared by spark plasma sintering. Vacuum, 2020, 175, 109281.	1.6	11
31	Fabrication of highly dissimilar TC4/steel joint with V/Cu composite transition layer by laser melting deposition. Journal of Alloys and Compounds, 2021, 862, 158319.	2.8	11
32	Microstructure and Mechanical Properties of SPSed (Spark Plasma Sintered) Ti ₆₆ Nb ₁₃ Cu ₈ Ni _{6.8} Al _{6.2} Bulk Alloys with and without WC Addition. Materials Transactions, 2009, 50, 1720-1724.	0.4	9
33	Comparison of TiAl-Based Intermetallics Joints Brazed with Amorphous and Crystalline Ti-Zr-Cu-Ni-Co-Mo Fillers. Advanced Engineering Materials, 2016, 18, 341-347.	1.6	9
34	Effect of Tempering Temperatures on Tensile Properties and Rotary Bending Fatigue Behaviors of 17Cr2Ni2MoVNb Steel. Metals, 2018, 8, 507.	1.0	9
35	Study on Microstructure and Mechanical Properties of WC-10Ni3Al Cemented Carbide Prepared by Different Ball-Milling Suspension. Materials, 2019, 12, 2224.	1.3	9
36	Effect of ultrasonic nanocrystalline surface modification process on fretting wear behavior of laser surface textured 20CrMoH steel. Surface and Coatings Technology, 2021, 427, 127827.	2.2	9

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37	Effects of Microstructure Evolution on Fretting Wear Behaviors of 25CrNi2MoVE Steel under Different Tempering States. <i>Metals</i> , 2020, 10, 351.	1.0	8
38	Microstructure and mechanical properties of TiAl/Ni-based superalloy joints vacuum brazed with Tiâ€“Zrâ€“Feâ€“Cuâ€“Niâ€“Coâ€“Mo filler metal. <i>Rare Metals</i> , 2021, 40, 2134-2142.	3.6	8
39	Preparation of SiCp/Al compositeâ€“bismuthate glass material and its application in mirror blanks. <i>RSC Advances</i> , 2015, 5, 52167-52173.	1.7	7
40	Rolling contact fatigue property and failure mechanism of carburized 30CrSiMoVM steel at elevated temperature. <i>Tribology International</i> , 2016, 98, 144-154.	3.0	7
41	Effect of Pulsed Magnetic Field on Spark Plasma Sintering of Iron-Based Powders. <i>Materials Transactions</i> , 2010, 51, 1308-1312.	0.4	6
42	Surface modification layer of Tiâ€“6Alâ€“4V produced by surface rolling and thermal oxidation. <i>Surface Innovations</i> , 2017, 5, 232-242.	1.4	6
43	Microstructure and tribological properties of carburized 95Wâ€“3.5Niâ€“1.0Feâ€“0.5Co heavy alloy. <i>Rare Metals</i> , 2019, 38, 165-172.	3.6	6
44	A comparison of wear behaviour of heat-resistant steel engine valves and TiAl engine valves. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , 2020, 234, 1549-1562.	1.0	5
45	Wide-Gap Brazing of K417G Alloy Assisted by In Situ Precipitation of M3B2 Boride Particles. <i>Materials</i> , 2020, 13, 3140.	1.3	5
46	Ultrafine porous boron nitride nanofiberâ€“toughened WC composites. <i>International Journal of Applied Ceramic Technology</i> , 2020, 17, 941-948.	1.1	5
47	The Effect of Mobile Wearable Waist Assist Robot on Lower Back Pain during Lifting and Handling Tasks. <i>Mobile Networks and Applications</i> , 2021, 26, 988-996.	2.2	5
48	Concurrent Hardening and Toughening of a Tungsten Heavy Alloy via a Novel Carburizing Cyclic Heat Treatment. <i>Advanced Engineering Materials</i> , 2021, 23, 2001283.	1.6	5
49	Examination of Electrical Conduction of Carbonyl Iron Powder Compacts. <i>Materials Transactions</i> , 2015, 56, 696-702.	0.4	4
50	Serrated Flow Behavior of Titaniumâ€“Based Composites with Different In Situ TiC Contents. <i>Advanced Engineering Materials</i> , 2015, 17, 1383-1390.	1.6	4
51	Design and operation of a new multifunctional wear apparatus for engine valve train components. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , 2018, 232, 259-276.	1.0	4
52	Effect of ultrasonic surface rolling on microstructural evolution and fretting wear resistance of 20CrMoH steel under different quenching temperatures. <i>Materials Chemistry and Physics</i> , 2022, 288, 126362.	2.0	4
53	Effects of Alloy Composition on Microstructure and Mechanical Properties of Iron-Based Materials Fabricated by Ball Milling and Spark Plasma Sintering. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015, 46, 476-487.	1.1	3
54	Optimization of Friction Welding Process Parameters for 42Cr9Si2 Hollow Head and Sodium Filled Engine Valve and Valve Performance Evaluation. <i>Materials</i> , 2019, 12, 1123.	1.3	3

#	ARTICLE	IF	CITATIONS
55	Effect of Shot Peening on Microstructures and High-Temperature Tribological Properties of 4Cr9Si2 Valve Steel. <i>Steel Research International</i> , 0, , 2100250.	1.0	3
56	Effect of Minor Alloying Substitution on Glass-Forming Ability and Crystallization Behavior of a Ni ₅₇ Zr ₂₂ X ₈ Nb ₈ Al ₅ (X = Ti, Cu) Alloy Synthesized by Mechanical Alloying. <i>Materials Transactions</i> , 2013, 54, 1844-1850.		
57	Sinter-hardening with concurrent improved plasticity in iron alloys induced by spark plasma sintering. <i>Journal of Materials Research</i> , 2014, 29, 981-988.	1.2	2
58	Wear behavior and mechanism of a sliding pair of 0.1C-3Cr-2W-V nitrided steel rubbing against an aluminum bronze alloy. <i>Journal of Iron and Steel Research International</i> , 2016, 23, 281-288.	1.4	2
59	Drop Tower Experiment to Study the Effect of Microgravity on Friction Behavior: Experimental Set-up and Preliminary Results. <i>Microgravity Science and Technology</i> , 2020, 32, 1095-1104.	0.7	2
60	Evolution of the Fretting Wear Damage of a Complex Phase Compound Layer for a Nitrided High-Carbon High-Chromium Steel. <i>Metals</i> , 2020, 10, 1391.	1.0	2
61	Development of an ergonomic wearable robotic device for assisting manual workers. <i>International Journal of Advanced Robotic Systems</i> , 2021, 18, 172988142110467.	1.3	2
62	Study on High Temperature Friction and Wear Characteristics of 4Cr9Si2 Valve Steel. <i>Mechanisms and Machine Science</i> , 2018, , 1535-1546.	0.3	1
63	Effect of the Different High Volume Fraction of SiC Particles on the Junction of Bismuthate Glass-SiC _p /Al Composite. <i>Scanning</i> , 2018, 2018, 1-10.	0.7	1
64	Preparation and Anodizing of SiCp/Al Composites with Relatively High Fraction of SiCp. <i>Scanning</i> , 2018, 2018, 1-13.	0.7	1
65	Modeling and simulation of the proportional valve control system for the turbocharger. , 2010, , .		0