

Qing-Zhi Yan

List of Publications by Year in descending order

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docs citations

82
times ranked

743
citing authors

#	ARTICLE	IF	CITATIONS
1	The Braking Behaviors of Cu-Based Metallic Brake Pad for High-Speed Train Under Different Initial Braking Speed. Tribology Letters, 2017, 65, 1.	2.6	75
2	Bulk tungsten with uniformly dispersed La ₂ O ₃ nanoparticles sintered from co-precipitated La ₂ O ₃ /W nanoparticles. Journal of Nuclear Materials, 2013, 434, 85-89.	2.7	61
3	The Influence of Cu/Fe Ratio on the Tribological Behavior of Brake Friction Materials. Tribology Letters, 2018, 66, 1.	2.6	55
4	Synthesis of TiC/W core-shell nanoparticles by precipitate-coating process. Journal of Nuclear Materials, 2012, 430, 216-220.	2.7	48
5	Void swelling in high dose ion-irradiated reduced activation ferritic-martensitic steels. Journal of Nuclear Materials, 2015, 462, 119-125.	2.7	47
6	Effect of hot working process on the mechanical properties of tungsten materials. Journal of Nuclear Materials, 2013, 442, S233-S236.	2.7	43
7	Stability of Metal Matrix Composite Pads During High-Speed Braking. Tribology Letters, 2018, 66, 1.	2.6	40
8	Void swelling in ferritic-martensitic steels under high dose ion irradiation: Exploring possible contributions to swelling resistance. Scripta Materialia, 2016, 112, 9-14.	5.2	38
9	Texture evolution and basic thermal-mechanical properties of pure tungsten under various rolling reductions. Journal of Nuclear Materials, 2016, 468, 339-347.	2.7	37
10	Microstructure, basic thermal-mechanical and Charpy impact properties of W-0.1wt.% TiC alloy via chemical method. Journal of Alloys and Compounds, 2016, 660, 184-192.	5.5	33
11	Preparation of pure tungsten via various rolling methods and their influence on macro-texture and mechanical properties. Materials and Design, 2017, 126, 1-11.	7.0	33
12	A new method for preparing 9Cr-ODS steel using elemental yttrium and Fe ₂ O ₃ oxygen carrier. Journal of Alloys and Compounds, 2019, 770, 831-839.	5.5	31
13	The influence of microstructure on the rolling contact fatigue of steel for high-speed-train wheel. Wear, 2015, 342-343, 349-355.	3.1	30
14	The thermal crack characteristics of rolled tungsten in different orientations. Journal of Nuclear Materials, 2014, 444, 428-434.	2.7	28
15	Comparison of Friction and Wear Behavior Between C/C, C/C-SiC and Metallic Composite Materials. Tribology Letters, 2015, 60, 1.	2.6	28
16	Preparation and microstructure characterization of W-0.1wt.%TiC alloy via chemical method. International Journal of Refractory Metals and Hard Materials, 2016, 55, 33-38.	3.8	27
17	Morphology evolution of La ₂ O ₃ and crack characteristic in W-La ₂ O ₃ alloy under transient heat loading. Journal of Nuclear Materials, 2014, 451, 283-291.	2.7	25
18	Recrystallization temperature of tungsten with different deformation degrees. Rare Metals, 2016, 35, 566-570.	7.1	25

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19	Effects of TiC content on microstructure, mechanical properties, and thermal conductivity of W-TiC alloys fabricated by a wet-chemical method. <i>Fusion Engineering and Design</i> , 2017, 121, 366-372.	1.9	25
20	The braking behaviors of Cu-Based powder metallurgy brake pads mated with C/Câ€“SiC disk for high-speed train. <i>Wear</i> , 2020, 448-449, 203237.	3.1	25
21	Thermal shock and fatigue resistance of tungsten materials under transient heat loading. <i>Journal of Nuclear Materials</i> , 2014, 455, 537-543.	2.7	22
22	Basic thermalâ€“mechanical properties and thermal shock, fatigue resistance of swaged+rolled potassium doped tungsten. <i>Journal of Nuclear Materials</i> , 2014, 452, 257-264.	2.7	22
23	The Stability of the Coefficient of Friction and Wear Behavior of C/Câ€“SiC. <i>Tribology Letters</i> , 2015, 58, 1.	2.6	20
24	Evolution of hot rolling texture in pure tungsten and lanthanum oxide doped tungsten with various reductions. <i>Materials and Design</i> , 2016, 109, 443-455.	7.0	20
25	Large-scale potassium-doped tungsten alloy with superior recrystallization resistance, ductility and strength induced by potassium bubbles. <i>Journal of Nuclear Materials</i> , 2022, 559, 153450.	2.7	20
26	Microstructure characteristics of 12Cr ferritic/martensitic steels with various yttrium additions. <i>Journal of Rare Earths</i> , 2019, 37, 547-554.	4.8	19
27	Microstructure, mechanical properties and bonding characteristic of deformed tungsten. <i>International Journal of Refractory Metals and Hard Materials</i> , 2014, 43, 302-308.	3.8	18
28	Microstructure and strengthening mechanism of grain boundary strengthened W-ZrB ₂ alloy. <i>Journal of Materials Research and Technology</i> , 2020, 9, 4007-4015.	5.8	17
29	Corrosion Behavior of Ferritic/Martensitic Steels CNS-I and Modified CNS-II in Supercritical Water. <i>Journal of Iron and Steel Research International</i> , 2012, 19, 69-73.	2.8	16
30	Role of titanium carbide and alumina on the friction increment for Cu-based metallic brake pads under different initial braking speeds. <i>Friction</i> , 2021, 9, 1543-1557.	6.4	15
31	Nanostructured laminar tungsten alloy with improved ductility by surface mechanical attrition treatment. <i>Scientific Reports</i> , 2017, 7, 1351.	3.3	13
32	Improvement of wear resistance in ferrite-pearlite railway wheel steel via ferrite strengthening and cementite spheroidization. <i>Materials Research Express</i> , 2019, 6, 106513.	1.6	13
33	Nanocrystalline-grained tungsten prepared by surface mechanical attrition treatment: Microstructure and mechanical properties. <i>Journal of Nuclear Materials</i> , 2016, 480, 281-288.	2.7	12
34	Synergistic effects of Si and Y on corrosion behavior of cast cladding steels by pre-laying Y powder for nuclear applications in static liquid LBE. <i>Journal of Nuclear Materials</i> , 2022, 566, 153781.	2.7	11
35	Low-cost solid FeS lubricant as a possible alternative to MoS ₂ for producing Fe-based friction materials. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2017, 24, 115-121.	4.9	10
36	Microstructures, Mechanical Properties and Thermal Conductivities of W-0.5Åwt.%TiC Alloys Prepared via Ball Milling and Wet Chemical Method. <i>Jom</i> , 2017, 69, 1992-1996.	1.9	10

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37	Effects of yttrium oxides on the microstructure and mechanical properties of 15-15Ti ODS alloy fabricated by casting. <i>Materials Characterization</i> , 2020, 162, 110228.	4.4	10
38	Sintering behavior of Cr in different atmospheres and its effect on the microstructure and properties of copper-based composite materials. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2013, 20, 1208-1213.	4.9	9
39	Solid FeS lubricant: a possible alternative to MoS ₂ for Cu-Fe-based friction materials. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2017, 24, 1278-1283.	4.9	9
40	Grain boundary strengthened W-ZrB ₂ alloy via freeze-drying technique and spark plasma sintering. <i>Fusion Engineering and Design</i> , 2019, 149, 111333.	1.9	8
41	Effect of the pouring temperature by novel synchronous rolling-casting for metal on microstructure and properties of ZL104 alloy. <i>Journal of Materials Research</i> , 2016, 31, 2524-2530.	2.6	7
42	Microstructures, Mechanical Properties and Deuterium Blistering Behavior of Chemically Prepared W-TiC Alloys. <i>Journal of Fusion Energy</i> , 2017, 36, 71-79.	1.2	7
43	The wet braking and recovery behaviors of the P/M pad mated with C/SiC disc for high-speed trains. <i>Wear</i> , 2021, 468-469, 203609.	3.1	7
44	Hot Deformation Behavior of Modified CNS- II F/M Steel. <i>Journal of Iron and Steel Research International</i> , 2012, 19, 60-65.	2.8	6
45	Enhanced creep resistance of Y-bearing 9Cr ferritic/martensitic steel via vacuum casting technique. <i>Journal of Materials Research and Technology</i> , 2019, 8, 4588-4597.	5.8	6
46	The preparation of TiC dispersion strengthened tungsten alloy via freeze-drying method. <i>Materials Research Express</i> , 2019, 6, 1165g7.	1.6	6
47	Preparation of Ti ₃ AlC ₂ bulk ceramic via aqueous gelcasting followed by Al-rich pressureless sintering. <i>Journal of the European Ceramic Society</i> , 2020, 40, 2878-2886.	5.7	6
48	Effect of Heat Treatment Process on Mechanical Properties and Microstructure of Modified CNS- II F/M Steel. <i>Journal of Iron and Steel Research International</i> , 2011, 18, 65-70.	2.8	5
49	The influence of granulation on the gelcasting of pressureless-sintered silicon carbide ceramics. <i>Ceramics International</i> , 2014, 40, 7245-7251.	4.8	5
50	A simple way to prepare silicon carbide reinforced graphite composite lubricating materials. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2015, 30, 288-291.	1.0	5
51	Effect of substrate movement speed by synchronous rolling-casting freeform manufacturing for metal on microstructure and mechanical property of ZL104 aluminum alloy slurry. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2015, 30, 1056-1060.	1.0	5
52	Preparation of large-scale Ti ₃ SiC ₂ ceramic impeller with complex shape basing on the optimization of sintering manner. <i>Ceramics International</i> , 2019, 45, 22308-22315.	4.8	5
53	Fabrication and mechanical properties of large-scale SiC impeller via vacuum gelcasting and pressureless sintering. <i>International Journal of Applied Ceramic Technology</i> , 2020, 17, 1713-1722.	2.1	5
54	Microstructure stability, softening temperature and strengthening mechanism of pure copper, CuCrZr and Cu-Al ₂ O ₃ up to 1000 °C. <i>Nuclear Materials and Energy</i> , 2022, 30, 101123.	1.3	5

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55	Fabrication of solid-phase-sintered SiC-based composites with short carbon fibers. International Journal of Minerals, Metallurgy and Materials, 2014, 21, 1141-1145.	4.9	4
56	Thermal Shock Performance of Sintered Pure Tungsten with Various Grain Sizes Under Transient High Heat Flux Test. Journal of Fusion Energy, 2016, 35, 666-672.	1.2	4
57	Creep behaviors and microstructure analysis of CNS-2 steel at elevated temperatures and stresses. Journal of Nuclear Materials, 2017, 495, 306-313.	2.7	4
58	Wear behavior of metal bond diamond composite with hollow spherical silica particles as pore former. International Journal of Advanced Manufacturing Technology, 2019, 104, 4757-4767.	3.0	4
59	Hardness matching of rail/wheel steels for high-speed-train based on wear rate and rolling contact fatigue performance. Materials Research Express, 2019, 6, 066501.	1.6	4
60	Preparation of hot-rolled potassium doped tungsten (KW) thick plate and performance of KW-Cu monoblock mock-ups under high heat flux testing. Nuclear Materials and Energy, 2020, 23, 100744.	1.3	4
61	Ti2AlC bulk ceramics produced by gelcasting and Al-rich pressureless sintering. Ceramics International, 2020, 46, 14767-14775.	4.8	4
62	The investigation of distribution on size and concentration of helium bubbles in Y-bearing ODS steel using by SAXS and GIXRD. Journal of Nuclear Materials, 2021, 554, 153083.	2.7	4
63	Surface modification and deuterium retention in hot-rolled potassium doped tungsten alloy exposed to deuterium plasma. Journal of Nuclear Materials, 2022, 568, 153890.	2.7	4
64	Effect of helium implantation on SiC and graphite. Chinese Physics B, 2015, 24, 037803.	1.4	3
65	Microstructure characteristics and properties of yttrium-bearing 9Cr ferritic-martensitic steel cladding tubes. Materials Research Express, 2019, 6, 0965c6.	1.6	3
66	Characterization of Y-bearing particles in CNS-I-ODS steel fabricated by vacuum induction melting & casting technique. Journal of Materials Research and Technology, 2019, 8, 3859-3871.	5.8	3
67	Achievement of high strength-ductility combination in railway wheel steel with thin pearlite and spherical cementite via composition and undercooling design. Materials Research Express, 2019, 6, 016546.	1.6	3
68	Isothermal Heat Treatment of Wheel Steel with High Cr and Si Contents Based on Microstructure, Mechanical Properties, and Wear Performance. Journal of Materials Engineering and Performance, 0, , 1.	2.5	3
69	Effects of temperature induced thermal expansion and oxidation on the Charpy impact property of C/C composites. Journal Wuhan University of Technology, Materials Science Edition, 2015, 30, 473-477.	1.0	2
70	Wear Behavior of High-Speed Wheel and Rail Steels under Various Hardness Matching. Journal of Materials Engineering and Performance, 0, , .	2.5	2
71	Thermal/mechanical properties of short carbon fibre/SiC reinforced graphite matrix composites produced by low temperature hot pressing. Micro and Nano Letters, 2015, 10, 263-266.	1.3	1
72	Effect of stirring velocity in micro fused-casting for metal on microstructure and mechanical properties of A356 aluminum alloy slurry. Journal Wuhan University of Technology, Materials Science Edition, 2016, 31, 1131-1136.	1.0	1

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73	Preparation of Wâ€“TiC alloys from coreâ€“shell structure powders synthesized by an improved wet chemical method. Rare Metals, 2018, , 1.	7.1	1
74	Hardness ratio optimization of HiSi wheel/U71MnG rail tribo-pairs by sliding wear for high-speed train. Materials Research Express, 2019, 6, 1265b3.	1.6	1
75	Homogeneity analysis of Y-bearing 12Cr ferritic/martensitic steel fabricated by vacuum induction melting and casting. Journal of Iron and Steel Research International, 2020, 27, 940-951.	2.8	1
76	Steam oxidation behavior of Y-bearing cladding tube with aluminizing coating. Materials Research Express, 2020, 7, 066515.	1.6	1
77	Composition, microstructure and mechanical homogeneity evaluation of the Y-bearing 9Cr F/M steel fabricated by VIM & casting technique. Materials Research Express, 2020, 7, 036518.	1.6	1
78	Tribological properties of laminate composite brake material for high-speed trains. Tribology Transactions, 0, , 1-15.	2.0	1
79	Microstructure and high temperature mechanical properties of the new cladding steel of 15Cr-15Ni-Ti-Y. Nuclear Materials and Energy, 2022, 31, 101200.	1.3	1
80	Comprehensive analysis of the cladding tubes manufactured by a new 10Cr1SiY ferrite/martensitic steel. Nuclear Materials and Energy, 2022, 32, 101206.	1.3	1
81	Preparation of a diamond coating by the CVD method on the tungsten substrate and its resistance to D plasma irradiation. Tungsten, 2019, 1, 178-184.	4.8	0
82	Siâ€“rich pressureless sintering of the gelcasted Ti 3 SiC 2 bulk ceramic. International Journal of Applied Ceramic Technology, 2021, 18, 1542-1552.	2.1	0