

Yanqing Yang

List of Publications by Year in descending order

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84
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1,326
citations

331670

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414414

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all docs

85
docs citations

85
times ranked

1179
citing authors

#	ARTICLE	IF	CITATIONS
1	High ZT Value of Pure SnSe Polycrystalline Materials Prepared by High-Energy Ball Milling plus Hot Pressing Sintering. ACS Applied Materials & Interfaces, 2021, 13, 43011-43021.	8.0	5
2	Study on the Relationship between High Temperature Mechanical Properties and Precipitates Evolution of 7085 Al Alloy after Long Time Thermal Exposures. Metals, 2021, 11, 1483.	2.3	4
3	Improvement of interfacial compatibility of SiCf/Ti-6Al-4V composites by applying fiber coating and heat treatment. Materials and Design, 2021, 210, 110042.	7.0	6
4	Atomistic simulations on nanoimprinting of copper by aligned carbon nanotube arrays under a high-frequency mechanical vibration. Nanotechnology, 2020, 31, 045303.	2.6	3
5	Orientation relationships between nanotwins inside type II microtwins in Ni-Mn-Ga alloy. Journal of Alloys and Compounds, 2020, 821, 153479.	5.5	5
6	Experimental Characterization and Computational Modelling for Fatigue Behavior of a Ni-Based Single Crystal Alloy Considering Surface Roughness. Metals and Materials International, 2020, , 1.	3.4	0
7	Mechanical and electrical properties of carbon nanotube-reinforced Al ₂ O ₃ nanocomposites. Journal of Materials Science, 2020, 55, 8728-8740.	3.7	12
8	Dislocation facilitated surface precipitation in an Al-Cu-Mg thin foil. Materials Characterization, 2019, 157, 109902.	4.4	3
9	Rapid Water Harvesting and Nonthermal Drying in Humid Air by N-Doped Graphene Micropads. Langmuir, 2019, 35, 12389-12399.	3.5	6
10	In situ atomic-scale observation of a novel lattice reorienting process in pure Ti. Scripta Materialia, 2019, 166, 144-148.	5.2	4
11	Microstructure and mechanical property of high growth rate SiC via continuous hot-wire CVD. Journal of the American Ceramic Society, 2019, 102, 5656-5667.	3.8	15
12	Deformation twinning in response to cracking in Al: An in situ TEM and molecular dynamics study. Scripta Materialia, 2018, 145, 28-32.	5.2	22
13	Theoretical investigation on the adsorption and dissociation behaviors of TiCl ₄ on pyrolytic carbon surface. Applied Surface Science, 2018, 427, 156-165.	6.1	0
14	The structural characterizations of Ti-17 alloy films prepared by magnetron sputtering. Applied Surface Science, 2018, 427, 774-781.	6.1	9
15	Twinning-assisted void initiation and crack evolution in Cu thin film: An in situ TEM and molecular dynamics study. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 737, 336-340.	5.6	12
16	Nano-scale precipitate evolution and mechanical properties of 7085 aluminum alloy during thermal exposure. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 729, 411-422.	5.6	64
17	The influence of interface reaction zone on interfacial fracture toughness of SiC fiber reinforced titanium matrix composites. Composite Interfaces, 2018, 25, 929-947.	2.3	8
18	Improving the mechanical properties of titanium films by texture strengthening. Materials Characterization, 2017, 127, 365-370.	4.4	13

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19	Surface gradient nanostructures in high speed machined 7055 aluminum alloy. <i>Journal of Alloys and Compounds</i> , 2017, 726, 367-377.	5.5	34
20	Observing the dynamic $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="s18.gif" overflow="scroll" \rangle \langle \text{mml:mfenced close="}" open="{" \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 10 \langle \text{mml:mn} \rangle \langle \text{mml:mover accent="true" \rangle \langle \text{mml:mn} \rangle 1 \langle \text{mml:mn} \rangle \langle \text{mml:mo stretchy="true" \rangle \hat{A} \langle \text{mml:mo} \rangle \langle \text{mml:mover} \rangle \langle \text{mml:mn} \rangle 1 \langle \text{mml:mn} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mfenced} \rangle \langle \text{mml:math} \rangle$ twining process in pure Ti at atomic resolution. <i>Scripta Materialia</i> , 2017, 139, 139-143.	5.2	30
21	Effect of fiber volume fraction on longitudinal tensile properties of SiCf/Ti-6Al-4V composites. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2017, 32, 278-283.	1.0	4
22	Microstructure, microtexture and precipitation in the ultrafine-grained surface layer of an Al-Zn-Mg-Cu alloy processed by sliding friction treatment. <i>Materials Characterization</i> , 2017, 123, 189-197.	4.4	30
23	Grain refinement and texture evolution during high precision machining of a Ni-based superalloy. <i>Philosophical Magazine</i> , 2017, 97, 28-42.	1.6	9
24	Prediction of Limit Rotation Speeds of SiC _f /Ti Composite Rings by Finite Element Analysis. <i>Advanced Engineering Materials</i> , 2017, 19, 1600545.	3.5	4
25	The phase, morphology and surface characterization of Ti-Mo alloy films prepared by magnetron sputtering. <i>RSC Advances</i> , 2017, 7, 52595-52603.	3.6	15
26	Structure of A-C Type Intervariant Interface in Nonmodulated Martensite in a Ni-Mn-Ga Alloy. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 16985-16996.	8.0	10
27	Investigation of hardness and fracture toughness properties of Fe/VC multilayer coatings with coherent interfaces. <i>Surface and Coatings Technology</i> , 2016, 288, 179-184.	4.8	31
28	Effects of substrate temperature on the structure, residual stress and nanohardness of Ti6Al4V films prepared by magnetron sputtering. <i>Applied Surface Science</i> , 2016, 370, 53-58.	6.1	36
29	Evaluation on the interfacial fracture toughness of fiber-reinforced titanium matrix composites by push out test. <i>Composite Interfaces</i> , 2016, 23, 557-569.	2.3	4
30	Microstructure, hardness and toughness of boron carbide thin films deposited by pulse dc magnetron sputtering. <i>Ceramics International</i> , 2016, 42, 6342-6346.	4.8	12
31	Raman investigation of defective SiC nanocrystals. <i>Journal of Raman Spectroscopy</i> , 2015, 46, 1225-1229.	2.5	8
32	Raman Investigation of Interfacial Reaction Product of SiC _f /Ti43Al9V Composite. <i>Journal of the American Ceramic Society</i> , 2015, 98, 1937-1941.	3.8	5
33	Precession electron diffraction assisted orientation mapping of gradient nanostructure in a Ni-based superalloy. <i>IOP Conference Series: Materials Science and Engineering</i> , 2015, 89, 012023.	0.6	4
34	Interfacial reaction in SiCf/Ti-6Al-4V composite by using transmission electron microscopy. <i>Materials Characterization</i> , 2015, 109, 206-215.	4.4	10
35	Microstructure, tensile strength and thermostability of W-core SiC fibers with or without carbon coating. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 647, 265-276.	5.6	12
36	Microstructure and Grain Growth of the Matrix of SiCf/Ti-6Al-4V Composites Prepared by the Consolidation of Matrix-Coated Fibers in the $\hat{1}\pm\hat{1}^2$ Phase Field. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015, 46, 887-893.	2.2	3

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37	Robust self-cleaning and micromanipulation capabilities of gecko spatulae and their bio-mimics. Nature Communications, 2015, 6, 8949.	12.8	124
38	Raman investigation of chemical reaction product in thermal-treated SiC _f /C/Mo/Ti6Al4V composite. Journal of Raman Spectroscopy, 2015, 46, 182-188.	2.5	7
39	First-principles calculation of W/WC interface: Atomic structure, stability and electronic properties. Applied Surface Science, 2015, 324, 205-211.	6.1	39
40	First-principles calculation on $\hat{\Gamma}$ -SiC(111)/ $\hat{\Gamma}$ -WC(0001) interface. Journal of Applied Physics, 2014, 115, .	2.5	39
41	Effect of Hot Isostatic Pressing Parameters on the Microstructures and Grain Growth Behavior of the Matrix of SiCf/Ti-6Al-4V Composites. Rare Metal Materials and Engineering, 2014, 43, 1839-1845.	0.8	8
42	Investigation of interfacial reaction product of SiCf/C/Mo/Ti6Al4V composite through Raman spectroscopy. Applied Physics Letters, 2014, 104, .	3.3	8
43	Microstructure evolution of C/Mo double-coated SiC fiber reinforced Ti6Al4V composites. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 597, 95-101.	5.6	21
44	Twinning Behaviour in the Intermetallic Compound Al18Cr2Mg3. Acta Metallurgica Sinica (English) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	2.9	9
45	Local texture of three-stage CVD SiC fibre by precession electron diffraction (PED) and XRD. Materials Science and Technology, 2014, 30, 1751-1757.	1.6	0
46	<i>EBSDL</i> : a computer program for determining an unknown Bravais lattice using a single electron backscatter diffraction pattern. Journal of Applied Crystallography, 2014, 47, 1466-1468.	4.5	10
47	Theoretical calculations on the adhesion, stability, electronic structure and bonding of SiC/W interface. Applied Surface Science, 2014, 314, 896-905.	6.1	25
48	Fracture and toughening mechanisms in SiC nanofiber reinforced SiC matrix nanocomposites with amorphous carbon coatings. Computational Materials Science, 2014, 83, 255-260.	3.0	6
49	Atomic Scale and 3D Characterization of the Heterogeneously Formed S (Al2CuMg) Precipitates at Dislocations in Al-Cu-Mg Alloy. , 2014, , 113-118.		0
50	Formation of interfacial microstructures of Mo coating modified SiC _f /Mo/Ti6Al4V composites. Surface and Interface Analysis, 2013, 45, 667-671.	1.8	2
51	Development of CVD Ti-containing films. Progress in Materials Science, 2013, 58, 1490-1533.	32.8	38
52	Effect of C/Mo duplex coating on the interface and mechanical properties of SiCf/Ti6Al4V composites. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 566, 47-53.	5.6	11
53	Adhesion and fracture toughness at $\hat{\Gamma}$ -Ti(0001)/TiC(111): A first-principles investigation. Applied Surface Science, 2013, 286, 240-248.	6.1	59
54	HRTEM and HAADF-STEM tomography investigation of the heterogeneously formed S (Al ₂ CuMg) precipitates in Al-Cu-Mg alloy. Philosophical Magazine, 2013, 93, 1843-1858.	1.6	35

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55	Study of matrix microstructure of SiC _f /Ti-43Al-9V composites. <i>Materials Science and Technology</i> , 2013, 29, 581-586.	1.6	1
56	New lightweight mirror billet: Connection of β -TiAl and K9 glass with Ti6Al4V foil as interlayer. <i>Materials Science and Technology</i> , 2013, 29, 250-254.	1.6	1
57	First-principles study of stability and properties on β -SiC/TiC(111) interface. <i>Journal of Applied Physics</i> , 2013, 114, .	2.5	31
58	Microstructure and thermal residual stress analysis of SiC fiber through Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2013, 44, 1306-1311.	2.5	14
59	Interfacial properties and electronic structure of β -SiC(111)/ β -Ti(0001): A first principle study. <i>Journal of Applied Physics</i> , 2013, 113, .	2.5	28
60	Molecular Dynamics Simulation of Nanoimprinting Under a High-Frequency Vibration Perturbation. <i>Journal of Computational and Theoretical Nanoscience</i> , 2012, 9, 35-40.	0.4	9
61	Grain-scale growth simulation of SiC film with the Chemical Vapor Deposition method. <i>Computational Materials Science</i> , 2012, 59, 128-132.	3.0	5
62	Influence of CH ₃ SiCl ₃ consistency on growth process of SiC film by kinetic monte carlo method. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2012, 27, 871-875.	1.0	2
63	Effect of amorphous carbon coatings on the mechanical behavior of silicon carbide nanowire. <i>Journal of Applied Physics</i> , 2012, 111, 094306.	2.5	18
64	Effect of Cu/Mo duplex coating on the interface and property of SiCf/Ti6Al4V composite. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012, 535, 6-11.	5.6	17
65	Effect of Mo coating on the interface and mechanical properties of SiC fiber reinforced Ti6Al4V composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012, 550, 286-292.	5.6	22
66	A three-dimensional atomic scale simulations of CVD-SiC film growth in {111}, {110} and {100} family of planes. <i>Computational Materials Science</i> , 2011, 50, 2338-2346.	3.0	6
67	C/Ti/Cu interfacial reaction in SiCf/Cu composites. <i>Rare Metals</i> , 2011, 30, 396-400.	7.1	2
68	SEM in situ study on the mechanical behaviour of SiCf/Ti composite subjected to axial tensile load. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 528, 4507-4515.	5.6	13
69	Precipitation process along dislocations in Al-Cu-Mg alloy during artificial aging. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010, 528, 706-714.	5.6	71
70	Effects of the coating system and interfacial region thickness on the thermal residual stresses in SiCf/Ti-6Al-4V composites. <i>Materials & Design</i> , 2009, 30, 718-722.	5.1	31
71	Evaluation of interfacial fracture toughness of SiC fibre reinforced titanium matrix composite using pushout test. <i>Materials Science and Technology</i> , 2009, 25, 561-566.	1.6	8
72	Effect of nickel on the interface and mechanical properties of SiCf/Cu composites. <i>Journal of Alloys and Compounds</i> , 2009, 469, 237-243.	5.5	12

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73	An analysis of thermal residual stresses in SiCf/Cu composites when TiC or Ni as binder. <i>Materials & Design</i> , 2008, 29, 1755-1761.	5.1	11
74	Effect of the interfacial reaction layer thickness on the thermal residual stresses in SiCf/Ti-6Al-4V composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008, 489, 178-186.	5.6	32
75	The thermal expansion behavior of unidirectional SiC fiber-reinforced Cu matrix composites. <i>Scripta Materialia</i> , 2008, 58, 401-404.	5.2	24
76	The effect of fabrication processes on the mechanical and interfacial properties of SiCf/Cu matrix composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2007, 38, 2102-2108.	7.6	10
77	Titanium interlayers as adhesion promoters for SiCf/Cu composites. <i>Scripta Materialia</i> , 2007, 56, 569-572.	5.2	11
78	Numerical simulation of densification during consolidation of titanium-matrix coated fibers. <i>Composites Part A: Applied Science and Manufacturing</i> , 2006, 37, 1587-1590.	7.6	5
79	Microstructures and mechanical properties of hot-pressed MoSi ₂ matrix composites reinforced with SiC and ZrO ₂ particles. <i>Composites Science and Technology</i> , 2001, 61, 963-969.	7.8	21
80	On the prebainitic phenomenon in some alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 1994, 25, 1941-1946.	2.2	15
81	The formation mechanism of plate in beta Cu-Zn and Cu-Zn-Al alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 1994, 25, 2601-2608.	2.2	10
82	Growth kinetics and high-temperature tem in situ observation of bainite in a Cu-Zn alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 1994, 25, 2609-2614.	2.2	5
83	Studies on pre-bainitic transformation in Cu-Zn-Al-Mn alloy. <i>Journal of Alloys and Compounds</i> , 1994, 211-212, 198-200.	5.5	0
84	Displacive Mechanism of Bainitic Formation in Carbon-Depleted Region of Austenite. <i>Materials Transactions, JIM</i> , 1994, 35, 782-786.	0.9	2