

Genlian Fan

List of Publications by Year in descending order

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61984

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all docs

85
docs citations

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times ranked

2975
citing authors

#	ARTICLE	IF	CITATIONS
1	Smart Mechanical Powder Processing for Producing Carbon Nanotube Reinforced Aluminum Matrix Composites. KONA Powder and Particle Journal, 2022, 39, 219-229.	1.7	11
2	Effect of thermomechanical treatment and length-scales on spatial distribution of CNTs in Al matrix. Carbon, 2022, 190, 384-394.	10.3	19
3	Micro/nano-reinforcements in bimodal-grained matrix: A heterostructure strategy for toughening particulate reinforced metal matrix composites. Scripta Materialia, 2022, 217, 114774.	5.2	37
4	Bioinspired hierarchical Al ₂ O ₃ /Al laminated composite fabricated by flake powder metallurgy. Composites Part A: Applied Science and Manufacturing, 2021, 140, 106187.	7.6	41
5	Enhanced ductility by Mg addition in the CNT/Al-Cu composites via flake powder metallurgy. Materials Today Communications, 2021, 26, 101854.	1.9	9
6	Trimodal grain structure enables high-strength CNT/Al-Cu-Mg composites higher ductility by powder assembly & alloying. Materials Research Letters, 2021, 9, 50-57.	8.7	38
7	Influence of aging treatment on mechanical properties of CNT/Al-Cu-Mg rolled composites. MRS Communications, 2021, 11, 249-255.	1.8	7
8	Precipitation of Al ₃ Zr by two-step homogenization and its effect on the recrystallization and mechanical property in 2195 Al-Cu-Li alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 821, 141637.	5.6	38
9	Reinforcement with intragranular dispersion of carbon nanotubes in aluminum matrix composites. Composites Part B: Engineering, 2021, 217, 108915.	12.0	54
10	Bioinspired multiscale Al ₂ O ₃ -rGO/Al laminated composites with superior mechanical properties. Composites Part B: Engineering, 2021, 217, 108916.	12.0	37
11	Enhanced mechanical properties of CNT/Al composite through tailoring grain interior/grain boundary affected zones. Composites Part B: Engineering, 2021, 223, 109133.	12.0	32
12	Towards the strength-ductility synergy of Al ₂ O ₃ /Al composite through the design of roughened interface. Composites Part B: Engineering, 2021, 224, 109251.	12.0	27
13	Powder assembly & alloying to CNT/Al-Cu-Mg composites with trimodal grain structure and strength-ductility synergy. Composites Part B: Engineering, 2021, 225, 109271.	12.0	28
14	Enhanced strain hardening by bimodal grain structure in carbon nanotube reinforced Al-Cu-Mg composites. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 803, 140726.	5.6	35
15	Reaction-free interface promoting strength-ductility balance in graphene nanosheet/Al composites. Carbon, 2020, 158, 449-455.	10.3	65
16	Nucleation and growth mechanisms of interfacial carbide in graphene nanosheet/Al composites. Carbon, 2020, 161, 17-24.	10.3	59
17	Simultaneous enhancement of strength and ductility with nano dispersoids in nano and ultrafine grain metals: a brief review. Reviews on Advanced Materials Science, 2020, 59, 352-360.	3.3	17
18	Fabrication and mechanical properties of CNT/Al composites via shift-speed ball milling and hot-rolling. Journal of Materials Research, 2019, 34, 2609-2619.	2.6	24

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19	Interface-induced strain hardening of graphene nanosheet/aluminum composites. Carbon, 2019, 146, 17-27.	10.3	113
20	Enhanced load transfer by designing mechanical interfacial bonding in carbon nanotube reinforced aluminum composites. Carbon, 2019, 146, 155-161.	10.3	69
21	Strain Rate Sensitivity and Deformation Mechanism of Carbon Nanotubes Reinforced Aluminum Composites. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2019, 50, 3544-3554.	2.2	17
22	Microstructure-based modeling on structure-mechanical property relationships in carbon nanotube/aluminum composites. International Journal of Plasticity, 2019, 120, 278-295.	8.8	46
23	The Influence of Interface Structure on the Electrical Conductivity of Graphene Embedded in Aluminum Matrix. Advanced Materials Interfaces, 2019, 6, 1900468.	3.7	38
24	Heat treatment behavior and strengthening mechanisms of CNT/6061Al composites fabricated by flake powder metallurgy. Materials Characterization, 2019, 153, 261-270.	4.4	31
25	Thermal relaxation of residual stress in shot-peened CNT/Al-Mg-Si alloy composites. Journal of Materials Research and Technology, 2019, 8, 2201-2208.	5.8	9
26	Tailoring and characterization of carbon nanotube dispersity in CNT/6061Al composites. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 757, 172-181.	5.6	30
27	Thermal properties of in situ grown graphene reinforced copper matrix laminated composites. Journal of Alloys and Compounds, 2019, 771, 228-237.	5.5	69
28	Enhanced corrosion resistance in metal matrix composites assembled from graphene encapsulated copper nanoflakes. Carbon, 2019, 142, 482-490.	10.3	58
29	Mechanical properties and failure mechanisms at high temperature in carbon nanotube reinforced copper matrix nanolaminated composite. Composites Part A: Applied Science and Manufacturing, 2019, 116, 54-61.	7.6	34
30	Strain-rate dependent deformation mechanism of graphene-Al nanolaminated composites studied using micro-pillar compression. International Journal of Plasticity, 2018, 105, 128-140.	8.8	95
31	Effect of interfacial reaction on Young's modulus in CNT/Al nanocomposite: A quantitative analysis. Materials Characterization, 2018, 137, 84-90.	4.4	25
32	Enhanced thermal conductivity of diamond/aluminum composites through tuning diamond particle dispersion. Journal of Materials Science, 2018, 53, 6602-6612.	3.7	16
33	Design of an efficient flake powder metallurgy route to fabricate CNT/6061Al composites. Materials and Design, 2018, 142, 288-296.	7.0	81
34	Enhanced interfacial bonding and mechanical properties in CNT/Al composites fabricated by flake powder metallurgy. Carbon, 2018, 130, 333-339.	10.3	129
35	Grain boundary-assisted deformation in graphene-Al nanolaminated composite micro-pillars. Materials Research Letters, 2018, 6, 41-48.	8.7	27
36	Particle size effect on the interfacial properties of SiC particle-reinforced Al-Cu-Mg composites. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 711, 643-649.	5.6	89

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37	Theoretical modelling for interface design and thermal conductivity prediction in diamond/Cu composites. <i>Diamond and Related Materials</i> , 2018, 81, 38-44.	3.9	63
38	Back stress in strain hardening of carbon nanotube/aluminum composites. <i>Materials Research Letters</i> , 2018, 6, 113-120.	8.7	74
39	Enhanced mechanical properties and high electrical conductivity in multiwalled carbon nanotubes reinforced copper matrix nanolaminated composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 729, 452-457.	5.6	43
40	High-strength CNT/Al-Zn-Mg-Cu composites with improved ductility achieved by flake powder metallurgy via elemental alloying. <i>Composites Part A: Applied Science and Manufacturing</i> , 2018, 111, 1-11.	7.6	58
41	Tailoring the structure and mechanical properties of graphene nanosheet/aluminum composites by flake powder metallurgy via shift-speed ball milling. <i>Composites Part A: Applied Science and Manufacturing</i> , 2018, 111, 73-82.	7.6	128
42	Graphene quality dominated interface deformation behavior of graphene-metal composite: The defective is better. <i>International Journal of Plasticity</i> , 2018, 111, 253-265.	8.8	50
43	Enhanced dislocation obstruction in nanolaminated graphene/Cu composite as revealed by stress relaxation experiments. <i>Scripta Materialia</i> , 2017, 131, 67-71.	5.2	68
44	Balanced strength and ductility in CNT/Al composites achieved by flake powder metallurgy via shift-speed ball milling. <i>Composites Part A: Applied Science and Manufacturing</i> , 2017, 96, 57-66.	7.6	192
45	Aligning graphene in bulk copper: Nacre-inspired nanolaminated architecture coupled with in-situ processing for enhanced mechanical properties and high electrical conductivity. <i>Carbon</i> , 2017, 117, 65-74.	10.3	230
46	Superplastic behavior of carbon nanotube reinforced aluminum composites fabricated by flake powder metallurgy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 699, 55-61.	5.6	26
47	Strengthening and toughening mechanisms in graphene-Al nanolaminated composite micro-pillars. <i>Acta Materialia</i> , 2017, 125, 98-108.	7.9	156
48	Grain refinement and superplastic behavior of carbon nanotube reinforced aluminum alloy composite processed by cold rolling. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 708, 537-543.	5.6	25
49	Lateral size effect of graphene on mechanical properties of aluminum matrix nanolaminated composites. <i>Scripta Materialia</i> , 2017, 139, 44-48.	5.2	113
50	High damping capacity of a Ni-Cu-Mn-Ga alloy in wide ambient-temperature range. <i>Journal of Alloys and Compounds</i> , 2017, 695, 2400-2405.	5.5	15
51	A Versatile Method for Uniform Dispersion of Nanocarbons in Metal Matrix Based on Electrostatic Interactions. <i>Nano-Micro Letters</i> , 2016, 8, 54-60.	27.0	26
52	A quantitative method to characterize the Al ₄ C ₃ -formed interfacial reaction: The case study of MWCNT/Al composites. <i>Materials Characterization</i> , 2016, 112, 213-218.	4.4	54
53	3D Microstructure-based finite element modeling of deformation and fracture of SiCp/Al composites. <i>Composites Science and Technology</i> , 2016, 123, 1-9.	7.8	111
54	Effect of Interface Evolution on Thermal Conductivity of Vacuum Hot Pressed SiC/Al Composites. <i>Advanced Engineering Materials</i> , 2015, 17, 1076-1084.	3.5	20

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55	Reinforcement with in-situ synthesized carbon nano-onions in aluminum composites fabricated by flake powder metallurgy. <i>Journal of Alloys and Compounds</i> , 2015, 650, 217-223.	5.5	17
56	Graphene-and-Copper Artificial Nacre Fabricated by a Preform Impregnation Process: Bioinspired Strategy for Strengthening-Toughening of Metal Matrix Composite. <i>ACS Nano</i> , 2015, 9, 6934-6943.	14.6	230
57	Synergistic strengthening effect of graphene-carbon nanotube hybrid structure in aluminum matrix composites. <i>Carbon</i> , 2015, 95, 419-427.	10.3	154
58	Enhanced Mechanical Properties of Graphene (Reduced Graphene Oxide)/Aluminum Composites with a Bioinspired Nanolaminated Structure. <i>Nano Letters</i> , 2015, 15, 8077-8083.	9.1	366
59	Composite structure modeling and mechanical behavior of particle reinforced metal matrix composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 597, 359-369.	5.6	131
60	Flake thickness effect of Al ₂ O ₃ /Al biomimetic nanolaminated composites fabricated by flake powder metallurgy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 594, 324-329.	5.6	24
61	A predictive model for interfacial thermal conductance in surface metallized diamond aluminum matrix composites. <i>Materials & Design</i> , 2014, 55, 257-262.	5.1	78
62	Development of Flake Powder Metallurgy in Fabricating Metal Matrix Composites: A Review. <i>Acta Metallurgica Sinica (English Letters)</i> , 2014, 27, 806-815.	2.9	53
63	Evolution, Control, and Effects of Interface in CNT/Al Composites: a Review. <i>Acta Metallurgica Sinica (English Letters)</i> , 2014, 27, 839-843.	2.9	13
64	Computational structural modeling and mechanical behavior of carbon nanotube reinforced aluminum matrix composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 614, 273-283.	5.6	28
65	Uniform dispersion of graphene oxide in aluminum powder by direct electrostatic adsorption for fabrication of graphene/aluminum composites. <i>Nanotechnology</i> , 2014, 25, 325601.	2.6	141
66	Fabrication of diamond/aluminum composites by vacuum hot pressing: Process optimization and thermal properties. <i>Composites Part B: Engineering</i> , 2013, 47, 173-180.	12.0	87
67	Synthesis of carbon nanotube/aluminium composite powders by polymer pyrolysis chemical vapor deposition. <i>Carbon</i> , 2013, 55, 202-208.	10.3	35
68	Enhanced thermal conductivity in diamond/aluminum composites with a tungsten interface nanolayer. <i>Materials & Design</i> , 2013, 47, 160-166.	5.1	127
69	Diamond/aluminum composites processed by vacuum hot pressing: Microstructure characteristics and thermal properties. <i>Diamond and Related Materials</i> , 2013, 31, 1-5.	3.9	50
70	Strong and ductile particulate reinforced ultrafine-grained metallic composites fabricated by flake powder metallurgy. <i>Scripta Materialia</i> , 2013, 68, 555-558.	5.2	82
71	High-Density Hotspots Engineered by Naturally Piled-Up Subwavelength Structures in Three-Dimensional Copper Butterfly Wing Scales for Surface-Enhanced Raman Scattering Detection. <i>Advanced Functional Materials</i> , 2012, 22, 1578-1585.	14.9	109
72	Biological Templates: High-Density Hotspots Engineered by Naturally Piled-Up Subwavelength Structures in Three-Dimensional Copper Butterfly Wing Scales for Surface-Enhanced Raman Scattering Detection (<i>Adv. Funct. Mater.</i> 8/2012). <i>Advanced Functional Materials</i> , 2012, 22, 1542-1542.	14.9	1

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73	The growth of carbon nanotubes in aluminum powders by the catalytic pyrolysis of polyethylene glycol. Carbon, 2012, 50, 1057-1062.	10.3	44
74	The use of flake powder metallurgy to produce carbon nanotube (CNT)/aluminum composites with a homogenous CNT distribution. Carbon, 2012, 50, 1993-1998.	10.3	343
75	Strong and ductile carbon nanotube/aluminum bulk nanolaminated composites with two-dimensional alignment of carbon nanotubes. Scripta Materialia, 2012, 66, 331-334.	5.2	129
76	A flake powder metallurgy approach to Al ₂ O ₃ /Al biomimetic nanolaminated composites with enhanced ductility. Scripta Materialia, 2011, 65, 412-415.	5.2	110
77	An approach to the uniform dispersion of a high volume fraction of carbon nanotubes in aluminum powder. Carbon, 2011, 49, 1965-1971.	10.3	173
78	Two-dimensional distribution of carbon nanotubes in copper flake powders. Nanotechnology, 2011, 22, 225603.	2.6	15
79	Strain glassy behavior and premartensitic transition in Au ₇ Cu ₅ Al ₅ $\text{Au}_{7}\text{Cu}_{5}\text{Al}_{5}$	3.2	17
80	High volume fraction and uniform dispersion of carbon nanotubes in aluminium powders. Micro and Nano Letters, 2010, 5, 379.	1.3	12
81	Twofold role of dislocations in the relaxation behavior of Ti-Ni martensite. Acta Materialia, 2008, 56, 632-641.	7.9	59
82	Does order-disorder transition exist in near-stoichiometric Ti-Ni shape memory alloys?. Acta Materialia, 2007, 55, 2897-2905.	7.9	18
83	Ultrahigh damping in R-phase state of Ti-Ni-Fe alloy. Applied Physics Letters, 2006, 89, 161902.	3.3	42
84	Origin of 2-stage R-phase transformation in low-temperature aged Ni-rich Ti-Ni alloys. Acta Materialia, 2005, 53, 5365-5377.	7.9	101
85	Origin of abnormal multi-stage martensitic transformation behavior in aged Ni-rich Ti-Ni shape memory alloys. Acta Materialia, 2004, 52, 4351-4362.	7.9	233