

Kaka

List of Publications by Year in descending order

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39
papers

2,386
citations

394421

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315739

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docs citations

39
times ranked

1980
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanical behavior and strengthening mechanisms in ultrafine grain precipitation-strengthened aluminum alloy. <i>Acta Materialia</i> , 2014, 62, 141-155.	7.9	1,131
2	Precipitation phenomena in an ultrafine-grained Al alloy. <i>Acta Materialia</i> , 2013, 61, 2163-2178.	7.9	201
3	Coupling of dislocations and precipitates: Impact on the mechanical behavior of ultrafine grained Al-Zn-Mg alloys. <i>Acta Materialia</i> , 2016, 103, 153-164.	7.9	189
4	Influence of particle size and spatial distribution of B ₄ C reinforcement on the microstructure and mechanical behavior of precipitation strengthened Al alloy matrix composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 675, 421-430.	5.6	89
5	Improving the tensile ductility and uniform elongation of high-strength ultrafine-grained Al alloys by lowering the grain boundary misorientation angle. <i>Scripta Materialia</i> , 2014, 78-79, 25-28.	5.2	83
6	Isothermal oxidation behavior of cryomilled NiCrAlY bond coat: Homogeneity and growth rate of TGO. <i>Surface and Coatings Technology</i> , 2011, 205, 5178-5185.	4.8	81
7	Synthesis and mechanical behavior of nanostructured Al 5083/n-TiB ₂ metal matrix composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 656, 241-248.	5.6	57
8	The Microstructural Design of Trimodal Aluminum Composites. <i>Jom</i> , 2014, 66, 898-908.	1.9	45
9	Two-stage ball milling of recycled machining chips to create an alternative feedstock powder for metal additive manufacturing. <i>Powder Technology</i> , 2019, 342, 562-571.	4.2	44
10	A Statistical Analysis of Powder Flowability in Metal Additive Manufacturing. <i>Advanced Engineering Materials</i> , 2020, 22, 2000022.	3.5	37
11	Performance of Functionally Graded Thermoelectric Materials and Devices: A Review. <i>Journal of Electronic Materials</i> , 2018, 47, 5122-5132.	2.2	36
12	Investigation into the effects of Fe additions on the equilibrium phase compositions, phase fractions and phase stabilities in the Ni-Cr-Al system. <i>Acta Materialia</i> , 2010, 58, 1518-1529.	7.9	33
13	Quasi-static and high-rate mechanical behavior of aluminum-based MMC reinforced with boron carbide of various length scales. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 650, 305-316.	5.6	31
14	Stabilized plasticity in ultrahigh strength, submicron Al crystals. <i>Acta Materialia</i> , 2015, 94, 46-58.	7.9	28
15	Effects of the addition of boron nitride nanoplate on the fracture toughness, flexural strength, and Weibull Distribution of hydroxyapatite composites prepared by spark plasma sintering. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2019, 93, 105-117.	3.1	28
16	Influence of cryomilling on the microstructural features in HVOF-sprayed NiCrAlY bond coats for thermal barrier coatings: Creation of a homogeneous distribution of nanoscale dispersoids. <i>Philosophical Magazine Letters</i> , 2010, 90, 739-751.	1.2	27
17	An integrated approach for probing the structure and mechanical properties of diatoms: Toward engineered nanotemplates. <i>Acta Biomaterialia</i> , 2015, 25, 313-324.	8.3	27
18	Environmental Sustainability of Laser Metal Deposition: The Role of Feedstock Powder and Feedstock Utilization Factor. <i>Procedia Manufacturing</i> , 2017, 7, 198-204.	1.9	23

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19	Simultaneous synthesis by spark plasma sintering of a thermal barrier coating system with a NiCrAlY bond coat. <i>Surface and Coatings Technology</i> , 2010, 205, 1241-1244.	4.8	22
20	Thermodynamic investigation into the equilibrium phases in the NiCoCrAl system at elevated temperatures. <i>Surface and Coatings Technology</i> , 2010, 205, 2273-2280.	4.8	20
21	A comparative analysis of solubility, segregation, and phase formation in atomized and cryomilled Al ₂ O ₃ -Fe alloy powders. <i>Journal of Materials Science</i> , 2015, 50, 4683-4697.	3.7	20
22	Distinct Hardening Behavior of Ultrafine-Grained Al-Zn-Mg-Cu Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2014, 45, 4762-4765.	2.2	15
23	High temperature microstructure and microhardness evolution in dense NiCrAlY bulk material fabricated by spark plasma sintering. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 528, 3210-3217.	5.6	14
24	Synthesis of AA7075-AA7075/B4C bilayer composite with enhanced mechanical strength via plasma activated sintering. <i>Journal of Alloys and Compounds</i> , 2017, 701, 416-424.	5.5	14
25	In-situ metal binder-phase formation to make WC-FeNi Cermets with spark plasma sintering from WC, Fe, Ni, and carbon powders. <i>International Journal of Refractory Metals and Hard Materials</i> , 2020, 88, 105204.	3.8	14
26	Additive manufacturing of ceramic nanopowder by direct coagulation printing. <i>Additive Manufacturing</i> , 2018, 23, 140-150.	3.0	11
27	Precipitation in nanostructured alloys: A brief review. <i>MRS Bulletin</i> , 2021, 46, 250-257.	3.5	11
28	Absorption of Nitrogen at Al ₂ O ₃ Interfaces in Al Nanocomposites: A Computational Analysis. <i>Advanced Engineering Materials</i> , 2012, 14, 77-84.	3.5	10
29	Surface-Facet-Dependent Electrochromic Properties of WO ₃ Nanorod Thin Films: Implications for Smart Windows. <i>ACS Applied Nano Materials</i> , 2021, 4, 3750-3759.	5.0	10
30	Techniques for Mitigating Thermal Fatigue Degradation, Controlling Efficiency, and Extending Lifetime in a ZnO Thermoelectric Using Grain Size Gradient FGMs. <i>Journal of Electronic Materials</i> , 2018, 47, 866-872.	2.2	9
31	High-Temperature Mechanical Behavior of End-of-Life Cryomilled NiCrAlY Bond Coat Materials. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2011, 42, 2233-2241.	2.2	5
32	Prediction of continuous porosity gradients in ceramics using ZnO as a model material. <i>Journal of the American Ceramic Society</i> , 2019, 102, 587-594.	3.8	5
33	Atom-Probe Tomographic Study of Precipitation in an Ultrafine-Grained Al-Zn-Mg-Cu Alloy (Al 7075). <i>Microscopy and Microanalysis</i> , 2013, 19, 1024-1025.	0.4	4
34	Influence of Cryomilling on Microstructure, Phase Stability and Oxidation Behavior of NiCrAlY Bond Coat in Thermal Barrier Coatings: Experimentation and Mechanistic Investigation. <i>Materials Science Forum</i> , 2010, 654-656, 1940-1943.	0.3	3
35	Mechanistic investigation into the role of aluminum diffusion in the oxidation behavior of cryomilled NiCrAlY bond coat. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2016, 31, 35-43.	1.0	3
36	Effect of powder morphology on the microstructure and mechanical property gradients in stainless steels induced by thermal gradients in spark plasma sintering. <i>MRS Advances</i> , 2021, 6, 482-488.	0.9	3

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37	Calorimetric Study with Uncertainty Analysis to Investigate the Precipitation Kinetics in a Nanostructured Al Composite. <i>Advanced Engineering Materials</i> , 2018, 20, 1700728.	3.5	2
38	Disordered dislocation configuration in submicrometer Al crystal subjected to plane strain bending. <i>Scripta Materialia</i> , 2016, 113, 35-38.	5.2	1
39	Insight into the effects of pore size and distribution on mechanical properties of austenite stainless steels. <i>Journal of Materials Science</i> , 2021, 56, 17278-17295.	3.7	0