

Jitang Fan

List of Publications by Year in descending order

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27
papers

546
citations

567281

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27
all docs

27
docs citations

27
times ranked

432
citing authors

#	ARTICLE	IF	CITATIONS
1	High-strain-rate tensile mechanical response of a polyurethane elastomeric material. <i>Polymer</i> , 2015, 65, 72-80.	3.8	62
2	Theory of designing the gradient microstructured metals for overcoming strength-ductility trade-off. <i>Scripta Materialia</i> , 2020, 184, 41-45.	5.2	47
3	Dynamic compressive mechanical response of a soft polymer material. <i>Materials & Design</i> , 2015, 79, 73-85.	5.1	40
4	A novel structural gradient metallic glass composite with enhanced mechanical properties. <i>Scripta Materialia</i> , 2009, 61, 608-611.	5.2	35
5	Effect of microstructures on the compressive deformation and fracture behaviors of Zr ₄₇ Cu ₄₆ Al ₇ bulk metallic glass composites. <i>Journal of Non-Crystalline Solids</i> , 2007, 353, 4707-4717.	3.1	30
6	Studying a Flexible Polyurethane Elastomer with Improved Impact-Resistant Performance. <i>Polymers</i> , 2019, 11, 467.	4.5	30
7	Dynamic compressive response of a developed polymer composite at different strain rates. <i>Composites Part B: Engineering</i> , 2018, 152, 96-101.	12.0	29
8	Fracture behavior of Zr ₅₅ Cu ₃₀ Al ₁₀ Ni ₅ bulk metallic glass under quasi-static and dynamic compression. <i>Journal of Materials Research</i> , 2008, 23, 1744-1750.	2.6	28
9	Toughened austenitic stainless steel by surface severe plastic deformation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012, 552, 359-363.	5.6	28
10	Compressive response of multiple-particles-polymer systems at various strain rates. <i>Polymer</i> , 2016, 91, 62-73.	3.8	26
11	Deformation and fracture behaviors of Co-based metallic glass and its composite with dendrites. <i>Intermetallics</i> , 2009, 17, 445-452.	3.9	24
12	Glass interface effect on high-strain-rate tensile response of a soft polyurethane elastomeric polymer material. <i>Composites Science and Technology</i> , 2015, 118, 55-62.	7.8	24
13	Elastic-viscoplastic constitutive model for capturing the mechanical response of polymer composite at various strain rates. <i>Journal of Materials Science and Technology</i> , 2020, 57, 12-17.	10.7	20
14	Damage mechanisms of bulk metallic glasses under high-rate compression. <i>International Journal of Impact Engineering</i> , 2017, 106, 217-222.	5.0	17
15	Compressive response of a glass-polymer system at various strain rates. <i>Mechanics of Materials</i> , 2016, 95, 49-59.	3.2	16
16	Strain hardenability of a gradient metallic alloy under high-strain-rate compressive loading. <i>Materials and Design</i> , 2019, 170, 107695.	7.0	16
17	Deformation to fracture evolution of a flexible polymer under split Hopkinson pressure bar loading. <i>Polymer Testing</i> , 2018, 70, 192-196.	4.8	14
18	Composite design of thin hard AlNi ₃ coating on soft stainless steel for making the improved impact resistance. <i>Surface and Coatings Technology</i> , 2019, 368, 1-7.	4.8	11

#	ARTICLE	IF	CITATIONS
19	High-rate squeezing process of bulk metallic glasses. Scientific Reports, 2017, 7, 45051.	3.3	9
20	Rate dependency of a Zr-based bulk metallic glass: Strength and fracture characteristic. Materials Letters, 2018, 216, 176-178.	2.6	9
21	Dynamic compressive response of a dendrite-reinforced Ti-based bulk metallic glass composite. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 720, 140-144.	5.6	8
22	A nanoscale study of the negative strain rate dependency of the strength of metallic glasses by molecular dynamics simulations. Physical Chemistry Chemical Physics, 2018, 20, 26552-26557.	2.8	6
23	Capturing Dynamic Behaviors of a Rate Sensitive, Elastomer with Strain Energy Absorptions and Dissipation Effects. International Journal of Applied Mechanics, 2021, 13, .	2.2	5
24	Nanocrystallization induced by quasi-static fracture of metallic glasses at room temperature. Philosophical Magazine Letters, 2008, 88, 837-843.	1.2	4
25	Dynamic Mechanical Behaviour of Polymer Materials. , 0, , .		4
26	Serrated flow behavior induced by blunt mechanism of shear crack propagation in metallic glass. Journal of Materials Research, 2009, 24, 436-440.	2.6	2
27	Constitutive modeling of mechanical behaviors in gradient nanostructured alloys with hierarchical dual-phased microstructures. Acta Mechanica, 2022, 233, 3197-3212.	2.1	2